

# FCC Test Report

**FCC ID** : SQG-SONAIF573  
**Equipment** : Sona IF573 802.11ax Wi-Fi 6E Module with Bluetooth 5.4  
**Model No.** : Sona IF573  
**Brand Name** : Laird Connectivity  
**Applicant** : Laird Connectivity LLC  
**Address** : W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America  
**Standard** : 47 CFR FCC Part 15.407  
**Received Date** : Jan. 17, 2023  
**Tested Date** : Apr. 10 ~ Jun. 08, 2023

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

## Table of Contents

<b>1</b>	<b>GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1	Information.....	5
1.2	Local Support Equipment List .....	16
1.3	Test Setup Chart .....	16
1.4	The Equipment List .....	18
1.5	Test Standards .....	19
1.6	Reference Guidance .....	19
1.7	Deviation from Test Standard and Measurement Procedure.....	19
1.8	Measurement Uncertainty .....	20
<b>2</b>	<b>TEST CONFIGURATION.....</b>	<b>21</b>
2.1	Testing Facility .....	21
2.2	The Worst Test Modes and Channel Details .....	22
2.3	Directional gain.....	26
<b>3</b>	<b>TRANSMITTER TEST RESULTS .....</b>	<b>27</b>
3.1	Emission Bandwidth .....	27
3.2	Conducted Output Power .....	28
3.3	Power Spectral Density .....	30
3.4	Unwanted Emissions.....	32
3.5	AC Power Line Conducted Emissions .....	35
<b>4</b>	<b>TEST LABORATORY INFORMATION .....</b>	<b>36</b>
<b>Appendix A. Emission Bandwidth</b>		
<b>Appendix B. Conducted Output Power</b>		
<b>Appendix C. Power Spectral Density</b>		
<b>Appendix D. Unwanted Emissions</b>		
<b>Appendix E. AC Power Line Conducted Emissions</b>		

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## Release Record

Report No.	Version	Description	Issued Date
FR311701-1AN	Rev. 01	Initial issue	Jul. 28, 2023

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.500MHz 38.22 (Margin -7.78dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 4000.00MHz 50.97 (Margin -3.03dB) - AV	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]: <b>Non-beamforming mode</b> 5150~5250MHz: 20.32 5250~5350MHz: 20.37 5470~5725MHz: 20.64 5725~5850MHz: 21.61 <b>Beamforming mode</b> 5150~5250MHz: 17.31 5250~5350MHz: 17.36 5470~5725MHz: 17.63 5725~5850MHz: 18.60	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Refer to report no.: FR311701AN	
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 four configurations of the EUT are shown on the following:

Model Name	Part No.	Description
Sona IF573	453-00117	Module, Sona IF573, MIMO, MHF4
	453-00118	Module, Sona IF573, MIMO, Trace Pin
	453-00119	Module, Sona IF573, MIMO, M.2, Key E, SDIO, UART
	453-00120	Module, Sona IF573, MIMO, M.2, Key E, PCIe, UART

## 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 <sub>TX</sub> )	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-15
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]	2	MCS 0-15
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]	2	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]	2	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]	2	MCS 0-9
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]	2	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]	2	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]	2	MCS 0-11

Note 1: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.  
Note 2: 802.11ac/an/ax supports beamforming function.  
Note 3: 802.11ax supports full RU and partial RU configuration. Test results of partial RU configuration are recorded in this report. Refers to report no.: FR311701AN for test results of full RU configuration.

### 1.1.3 Antenna Details

Ant. No.	Manufacturer	Model	Part Number	Type	Connector	Operating Frequencies / Gain (dBi)		
						2.4GHz	5GHz	6GHz
1	JOYMAX	TWX-100B RSAX-2001	NA	Dipole	RP-SMA	2	4	4
2	Laird	FlexMIMO 6E	EFD2471A3 S-10MH4L	PIFA	MHF4L	2.2	3.8	3.3
3	Laird	Mini NanoBlade Flex 6 GHz	EMF2471A 3S-10MH4L	PCB Dipole	MHF4L	2.4	4.4	5.2
4	Laird	FlexPIFA 6E	EFB2471A3 S-10MH4L	PIFA	MHF4L	2.2	3.9	3.8

### 1.1.4 Power Supply Type of Equipment under Test (EUT)

<b>Power Supply Type</b>	3.3Vdc from host
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### 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	<b>802.11ac VHT80 / ax HE80</b>	
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	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---



### 1.1.7 Test Tool and Duty Cycle

Test Tool	Tera Term, V4.49		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ax HE20 RU26	99.66%	0.01
	ax HE20 RU52	99.64%	0.02
	ax HE20 RU106	99.61%	0.02
	ax HE40 RU26	99.59%	0.02
	ax HE40 RU52	99.57%	0.02
	ax HE40 RU106	99.53%	0.02
	ax HE40 RU242	99.28%	0.03
	ax HE80 RU26	99.66%	0.01
	ax HE80 RU52	99.64%	0.02
	ax HE80 RU106	99.61%	0.02
	ax HE80 RU242	99.55%	0.02
	ax HE80 RU484	98.29%	0.08

### 1.1.8 Power Index of Test Tool

#### SC Module

Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU26	5180	43
ax HE20 RU26	5200	39
ax HE20 RU26	5240	40
ax HE20 RU26	5260	40
ax HE20 RU26	5300	39
ax HE20 RU26	5320	45
ax HE20 RU26	5500	41
ax HE20 RU26	5580	41
ax HE20 RU26	5700	48
ax HE20 RU26	5720	40
ax HE20 RU26	5745	18
ax HE20 RU26	5785	18
ax HE20 RU26	5825	18
ax HE20 RU52	5180	38
ax HE20 RU52	5200	32
ax HE20 RU52	5240	32
ax HE20 RU52	5260	33

ax HE20 RU52	5300	32
ax HE20 RU52	5320	42
ax HE20 RU52	5500	37
ax HE20 RU52	5580	33
ax HE20 RU52	5700	45
ax HE20 RU52	5720	33
ax HE20 RU52	5745	19
ax HE20 RU52	5785	18
ax HE20 RU52	5825	18
ax HE20 RU106	5180	32
ax HE20 RU106	5200	25
ax HE20 RU106	5240	24
ax HE20 RU106	5260	25
ax HE20 RU106	5300	24
ax HE20 RU106	5320	34
ax HE20 RU106	5500	36
ax HE20 RU106	5580	24
ax HE20 RU106	5700	39
ax HE20 RU106	5720	24
ax HE20 RU106	5745	18
ax HE20 RU106	5785	18
ax HE20 RU106	5825	18
ax HE40 RU26	5190	38
ax HE40 RU26	5230	39
ax HE40 RU26	5270	39
ax HE40 RU26	5310	49
ax HE40 RU26	5510	49
ax HE40 RU26	5590	40
ax HE40 RU26	5670	40
ax HE40 RU26	5710	40
ax HE40 RU26	5755	18
ax HE40 RU26	5795	36
ax HE40 RU52	5190	39
ax HE40 RU52	5230	32
ax HE40 RU52	5270	32
ax HE40 RU52	5310	46

ax HE40 RU52	5510	45
ax HE40 RU52	5590	34
ax HE40 RU52	5670	34
ax HE40 RU52	5710	32
ax HE40 RU52	5755	20
ax HE40 RU52	5795	27
ax HE40 RU106	5190	34
ax HE40 RU106	5230	24
ax HE40 RU106	5270	24
ax HE40 RU106	5310	40
ax HE40 RU106	5510	37
ax HE40 RU106	5590	25
ax HE40 RU106	5670	28
ax HE40 RU106	5710	24
ax HE40 RU106	5755	20
ax HE40 RU106	5795	20
ax HE40 RU242	5190	30
ax HE40 RU242	5230	20
ax HE40 RU242	5270	19
ax HE40 RU242	5310	34
ax HE40 RU242	5510	40
ax HE40 RU242	5590	20
ax HE40 RU242	5670	26
ax HE40 RU242	5710	19
ax HE40 RU242	5755	20
ax HE40 RU242	5795	19
ax HE80 RU26	5210	39
ax HE80 RU26	5290	44
ax HE80 RU26	5530	45
ax HE80 RU26	5610	40
ax HE80 RU26	5690	37
ax HE80 RU26	5775	26
ax HE80 RU52	5210	39
ax HE80 RU52	5290	43
ax HE80 RU52	5530	44
ax HE80 RU52	5610	32

ax HE80 RU52	5690	29
ax HE80 RU52	5775	25
ax HE80 RU106	5210	36
ax HE80 RU106	5290	39
ax HE80 RU106	5530	43
ax HE80 RU106	5610	24
ax HE80 RU106	5690	24
ax HE80 RU106	5775	22
ax HE80 RU242	5210	36
ax HE80 RU242	5290	37
ax HE80 RU242	5530	42
ax HE80 RU242	5610	22
ax HE80 RU242	5690	19
ax HE80 RU242	5775	22
ax HE80 RU484	5210	37
ax HE80 RU484	5290	45
ax HE80 RU484	5530	49
ax HE80 RU484	5610	28
ax HE80 RU484	5690	18
ax HE80 RU484	5775	24

**ST M.2, PCIe module**

Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU26	5180	43
ax HE20 RU26	5200	37
ax HE20 RU26	5240	36
ax HE20 RU26	5260	36
ax HE20 RU26	5300	35
ax HE20 RU26	5320	41
ax HE20 RU26	5500	36
ax HE20 RU26	5580	36
ax HE20 RU26	5700	45
ax HE20 RU26	5720	38
ax HE20 RU26	5745	16
ax HE20 RU26	5785	17
ax HE20 RU26	5825	17
ax HE20 RU52	5180	36

ax HE20 RU52	5200	30
ax HE20 RU52	5240	29
ax HE20 RU52	5260	29
ax HE20 RU52	5300	28
ax HE20 RU52	5320	38
ax HE20 RU52	5500	32
ax HE20 RU52	5580	28
ax HE20 RU52	5700	42
ax HE20 RU52	5720	31
ax HE20 RU52	5745	17
ax HE20 RU52	5785	17
ax HE20 RU52	5825	17
ax HE20 RU106	5180	31
ax HE20 RU106	5200	23
ax HE20 RU106	5240	22
ax HE20 RU106	5260	22
ax HE20 RU106	5300	21
ax HE20 RU106	5320	30
ax HE20 RU106	5500	31
ax HE20 RU106	5580	19
ax HE20 RU106	5700	37
ax HE20 RU106	5720	22
ax HE20 RU106	5745	17
ax HE20 RU106	5785	17
ax HE20 RU106	5825	17
ax HE40 RU26	5190	35
ax HE40 RU26	5230	35
ax HE40 RU26	5270	35
ax HE40 RU26	5310	44
ax HE40 RU26	5510	43
ax HE40 RU26	5590	34
ax HE40 RU26	5670	35
ax HE40 RU26	5710	37
ax HE40 RU26	5755	18
ax HE40 RU26	5795	37
ax HE40 RU52	5190	37

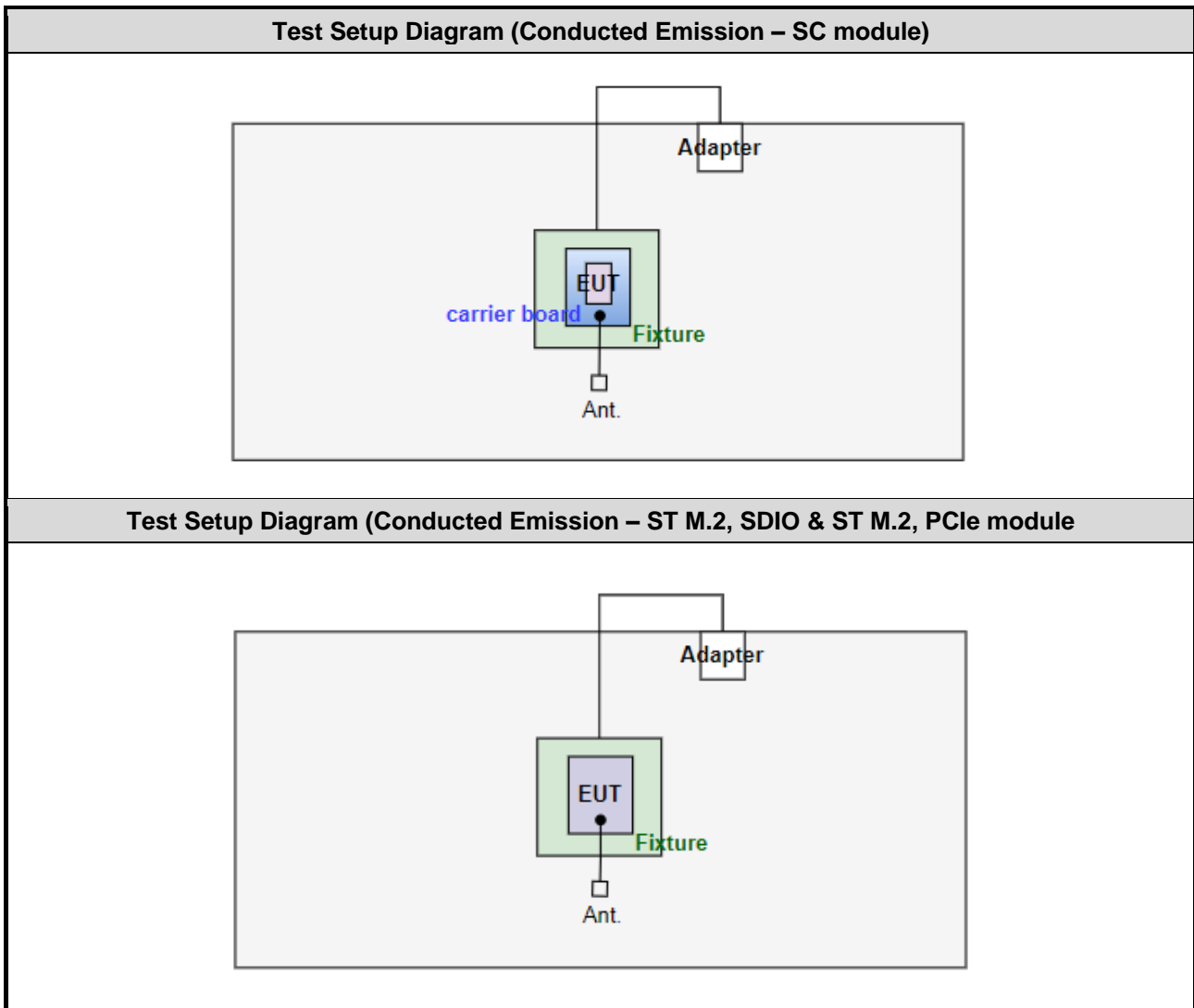
ax HE40 RU52	5230	29
ax HE40 RU52	5270	29
ax HE40 RU52	5310	43
ax HE40 RU52	5510	41
ax HE40 RU52	5590	29
ax HE40 RU52	5670	30
ax HE40 RU52	5710	30
ax HE40 RU52	5755	20
ax HE40 RU52	5795	28
ax HE40 RU106	5190	33
ax HE40 RU106	5230	22
ax HE40 RU106	5270	20
ax HE40 RU106	5310	35
ax HE40 RU106	5510	31
ax HE40 RU106	5590	20
ax HE40 RU106	5670	24
ax HE40 RU106	5710	22
ax HE40 RU106	5755	19
ax HE40 RU106	5795	20
ax HE40 RU242	5190	28
ax HE40 RU242	5230	17
ax HE40 RU242	5270	15
ax HE40 RU242	5310	30
ax HE40 RU242	5510	34
ax HE40 RU242	5590	15
ax HE40 RU242	5670	22
ax HE40 RU242	5710	16
ax HE40 RU242	5755	19
ax HE40 RU242	5795	20
ax HE80 RU26	5210	37
ax HE80 RU26	5290	41
ax HE80 RU26	5530	40
ax HE80 RU26	5610	35
ax HE80 RU26	5690	37
ax HE80 RU26	5775	26
ax HE80 RU52	5210	37

ax HE80 RU52	5290	39
ax HE80 RU52	5530	39
ax HE80 RU52	5610	28
ax HE80 RU52	5690	29
ax HE80 RU52	5775	25
ax HE80 RU106	5210	33
ax HE80 RU106	5290	35
ax HE80 RU106	5530	38
ax HE80 RU106	5610	20
ax HE80 RU106	5690	21
ax HE80 RU106	5775	22
ax HE80 RU242	5210	32
ax HE80 RU242	5290	33
ax HE80 RU242	5530	34
ax HE80 RU242	5610	17
ax HE80 RU242	5690	16
ax HE80 RU242	5775	22
ax HE80 RU484	5210	34
ax HE80 RU484	5290	43
ax HE80 RU484	5530	43
ax HE80 RU484	5610	23
ax HE80 RU484	5690	15
ax HE80 RU484	5775	22

## 1.2 Local Support Equipment List

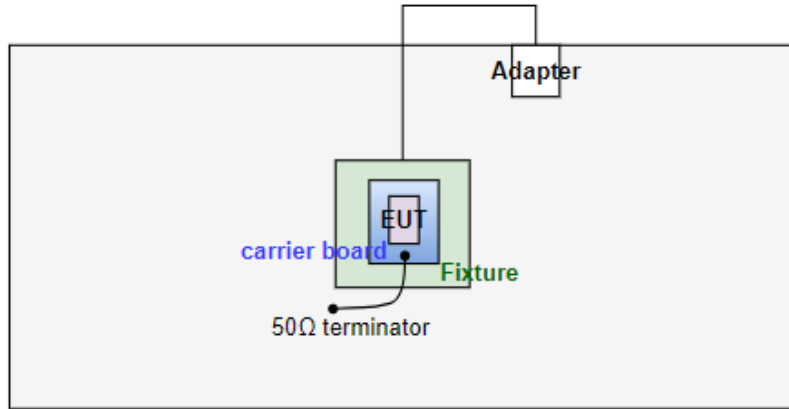
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 5400	DoC	---
2	Fixture	---	700-46370 REV B	---	Provided by applicant.
3	Fixture's adapter	---	EA1045CR	---	Provided by applicant. I/P: 100-240Vac,1.5A,50-60Hz O/P: 5.0V 3.0A
4	50Ω terminator	---	---	---	---

## 1.3 Test Setup Chart

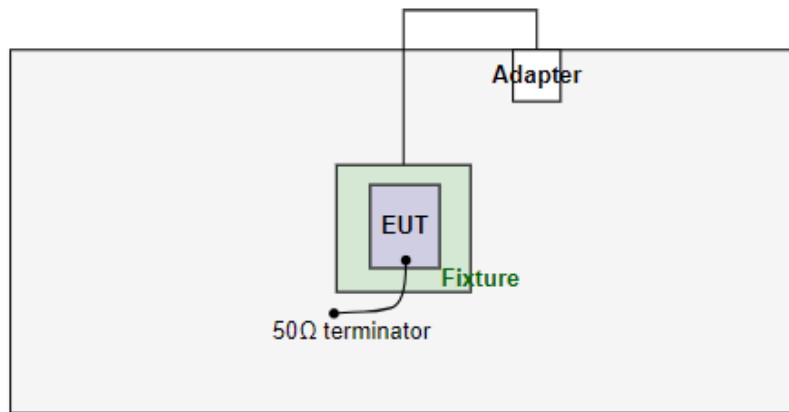




**Test Setup Diagram (Radiated Emission – SC module)**



**Test Setup Diagram (Radiated Emission – ST M.2, SDIO & ST M.2, PCIe module)**



## 1.4 The Equipment List

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Tested Date</b>	May 23, 2023				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101295	Jan. 31, 2023	Jan. 30, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 03, 2023	Jan. 02, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	03	Jun. 08, 2022	Jun. 07, 2023
Measurement S/W	AUDIX	e3	6.120210k	NA	NA
Measurement S/W	Sporton	SENSE-EMI	V5.10.8.7	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	RF Conducted				
<b>Test Site</b>	(TH01-WS)				
<b>Tested Date</b>	Apr. 10 ~ Jun. 08, 2023				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
DC POWER SOURCE	GW INSTRON	GPC-6030D	GES855395	Oct. 31, 2022	Oct. 30, 2023
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GTH-150-40-CP-AR-T	MAA1407-012	Sep. 19, 2022	Sep. 18, 2023
HIGHPASS FILTER 7-18G	K&L	11SH10-7000/T18000-O/OP	18	Oct. 06, 2022	Oct. 05, 2023
LOWPASS FILTER	WI	WLKS1100-12SS	2	Oct. 06, 2022	Oct. 05, 2023
LOWPASS FILTER	WI	WLKS5000-12SS	1	Oct. 06, 2022	Oct. 05, 2023
Attenuator	woken	PE7013-10	10-1	Oct. 14, 2022	Oct. 13, 2023
Measurement S/W	Sporton	SENSE-15407_NII	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	Radiated Emission				
<b>Test Site</b>	966 chamber1 / (03CH01-WS)				
<b>Tested Date</b>	Apr. 12 ~ Apr. 27, 2023				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 25, 2022	Nov. 24, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 04, 2022	Oct. 03, 2023
HIGHPASS FILTER 7-18G	K&L	11SH10-7000/T18000-O/OP	18	Oct. 06, 2022	Oct. 05, 2023
LOWPASS FILTER	WI	WLKS5000-12SS	1	Oct. 06, 2022	Oct. 05, 2023
Attenuator	woken	PE7013-10	10-1	Oct. 14, 2022	Oct. 13, 2023
Measurement S/W	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

## 1.5 Test Standards

47 CFR FCC Part 15.407  
ANSI C63.10-2013

## 1.6 Reference Guidance

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

## 1.7 Deviation from Test Standard and Measurement Procedure

None

## 1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	±1×10 <sup>-9</sup>
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB
Time	±0.1%
Temperature	±0.4 °C

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## 2 Test Configuration

### 2.1 Testing Facility

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

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

## 2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz							
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test method	Mode	Test Configuration	Note
<b>Non-beamforming mode</b>							
AC Power Line Conducted Emissions	ax HE40 RU242	5590	MCS 0	Conducted	TX	1, 2, 3	-
Unwanted Emissions ≤1GHz	ax HE40 RU242	5590	MCS 0	Radiated	TX	1, 2, 3	Note 2
Unwanted Emissions >1GHz	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	Radiated	TX	1	Note 2
	ax HE40 RU242	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0				
	ax HE80 RU484	5210 / 5290 / 5530 / 5610 / 5690	MCS 0				
	ax HE20 RU106	5200 / 5300 / 5580	MCS 0	Radiated	TX	3	Note 2
Unwanted Emissions ≤1GHz	ax HE40 RU242	5590	MCS 0	Conducted	TX	1, 3	-
Unwanted Emissions >1GHz	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	Conducted	TX	1	-
	ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0				
	ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484	5210 / 5290 / 5530 / 5610 / 5690	MCS 0				
	ax HE20 RU106 ax HE80 RU484	5180 / 5320 5530	MCS 0				
	Conducted Output Power	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	Conducted	TX	1, 3
ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242		5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0				
ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484		5210 / 5290 / 5530 / 5610 / 5690	MCS 0				

Frequency band 5150~5350 MHz / 5470~5725 MHz							
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test method	Mode	Test Configuration	Note
Emission Bandwidth Power Spectral Density	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	Conducted	TX	1	-
	ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0				
	ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484	5210 / 5290 / 5530 / 5610 / 5690	MCS 0				
<b>Beamforming mode</b>							
Conducted Output Power	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	Conducted	TX	1, 3	-
	ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0				
	ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484	5210 / 5290 / 5530 / 5610 / 5690	MCS 0				
<b>NOTE:</b>							
<ol style="list-style-type: none"> <li>The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The <b>Y-plane</b> result was found as the worst case and was shown in this report.</li> <li>The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.</li> <li>Beamforming mode is calculated not measured. The calculation method is conducted power of non-beamforming – 3.01 dB.</li> <li>Test configurations are listed as below:            Configuration 1: Laird part number: 453-00117 (SC module)            Configuration 2: Laird part number: 453-00119 (ST M.2, SDIO Module)            Configuration 3: Laird part number: 453-00120 (ST M.2, PCIe Module)</li> </ol>							

Frequency band 5725-5850 MHz							
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test method	Mode	Test Configuration	Note
<b>Non-beamforming mode</b>							
AC Power Line Conducted Emission	ax HE20 RU106	5785	MCS 0	Conducted	TX	1, 2, 3	-
Unwanted Emissions ≤ 1GHz	ax HE20 RU106	5785	MCS 0	Radiated	TX	1, 2, 3	Note 2
Unwanted Emissions >1GHz	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5745 / 5785 / 5825	MCS 0	Radiated	TX	1	Note 2
	ax HE40 RU242	5755 / 5795	MCS 0				
	ax HE80 RU484	5775	MCS 0				
	ax HE20 RU106	5785	MCS 0	Radiated	TX	3	Note 2
Unwanted Emissions ≤ 1GHz	ax HE20 RU26	5745	MCS 0	Conducted	TX	1, 3	-
Unwanted Emissions >1GHz	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5745 / 5785 / 5825	MCS 0	Conducted	TX	1	-
	ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242	5755 / 5795	MCS 0				
	ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484	5775	MCS 0				
	ax HE80 RU26	5775	MCS 0	Conducted	TX	3	-
Conducted Output Power	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5745 / 5785 / 5825	MCS 0	Conducted	TX	1, 3	-
	ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242	5755 / 5795	MCS 0				
	ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484	5775	MCS 0				



Frequency band 5725-5850 MHz							
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test method	Mode	Test Configuration	Note
6dB bandwidth Power spectral density	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5745 / 5785 / 5825	MCS 0	Conducted	TX	1	-
	ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242	5755 / 5795	MCS 0				
	ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484	5775	MCS 0				
<b>Beamforming mode</b>							
Conducted Output Power	ax HE20 RU26 ax HE20 RU52 ax HE20 RU106	5745 / 5785 / 5825	MCS 0	Conducted	TX	1, 3	-
	ax HE40 RU26 ax HE40 RU52 ax HE40 RU106 ax HE40 RU242	5755 / 5795	MCS 0				
	ax HE80 RU26 ax HE80 RU52 ax HE80 RU106 ax HE80 RU242 ax HE80 RU484	5775	MCS 0				
<b>NOTE:</b>							
<ol style="list-style-type: none"> <li>The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The <b>Y-plane</b> result was found as the worst case and was shown in this report.</li> <li>The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.</li> <li>Beamforming mode is calculated not measured. The calculation method is conducted power of non-beamforming – 3.01 dB.</li> <li>Test configurations are listed as below:            Configuration 1: Laird part number: 453-00117 (SC module)            Configuration 2: Laird part number: 453-00119 (ST M.2, SDIO Module)            Configuration 3: Laird part number: 453-00120 (ST M.2, PCIe Module)</li> </ol>							

## 2.3 Directional gain

Directional gain is calculated by following formula from FCC KDB 662911 D01 section F)2)f)(i)

Directional gain =  $G_{ANT}$  + Array Gain; ( $G_{ANT}$  is 4.4 dBi)

For Power measurement (Non-Beamforming)

Array gain = 0 dB for  $N_{ANT} \leq 4$ ; ( $N_{ANT}$  for the device is 2)

For Power spectral density / out of band emission (conducted measurement) / Power measurement (Beamforming)

Array gain =  $10 \cdot \log(N_{ANT}/N_{SS})$  dB; ( $N_{SS}$  for the device is 1)

Directional gain is calculated as below

Test item	$G_{ANT}$ (dBi)	Array gain (dB)	Directional gain (dBi)
Output power (Non-Beamforming)	4.4	0	4.4
Output power (Beamforming)	4.4	3.01	7.41
Power spectral density	4.4	3.01	7.41
Out of band emission(conducted measurement)	4.4	3.01	7.41

### 3 Transmitter Test Results

#### 3.1 Emission Bandwidth

##### 3.1.1 Limit of Emission Bandwidth

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

##### 3.1.2 Test Procedures

###### 26dB Bandwidth

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

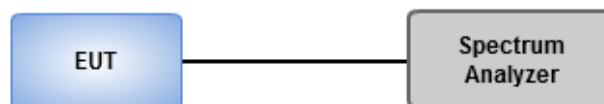
###### Occupied Bandwidth

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

###### 6dB Bandwidth

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

##### 3.1.3 Test Setup



##### 3.1.4 Test Results

<b>Ambient Condition</b>	20-26°C / 61-67%	<b>Tested By</b>	Aska Huang
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Refer to Appendix A.

## 3.2 Conducted Output Power

### 3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz	
Operating Mode	Limit
<input type="checkbox"/> 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)
<input type="checkbox"/> Indoor access point	Conducted Power: 1 W
<input type="checkbox"/> Fixed point-to-point access points	Conducted Power: 1 W
<input checked="" type="checkbox"/> Client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
<input checked="" type="checkbox"/> 5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5725 ~ 5850	Conducted Power: 1 W

Note: "B" is the 26dB emission bandwidth in MHz.

### 3.2.2 Test Procedures

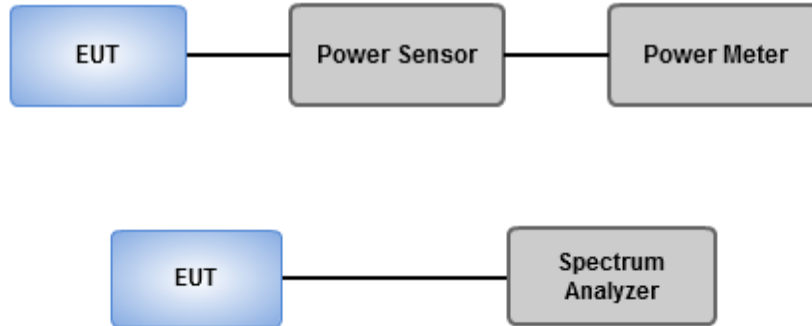
#### Method PM-G (Measurement using a gated RF average power meter)

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

<b>Ambient Condition</b>	20-26°C / 61-67%	<b>Tested By</b>	Aska Huang
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Refer to Appendix B.

### 3.3 Power Spectral Density

#### 3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
<input type="checkbox"/>	Outdoor access point	17 dBm / MHz
<input type="checkbox"/>	Indoor access point	17 dBm / MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm / MHz
<input checked="" type="checkbox"/>	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
<input checked="" type="checkbox"/>	5250 ~ 5350	11 dBm / MHz
<input checked="" type="checkbox"/>	5470 ~ 5725	11 dBm / MHz
<input checked="" type="checkbox"/>	5725 ~ 5850	30 dBm /500 kHz

### 3.3.2 Test Procedures

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

Duty cycle  $\geq$  98 %

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

Duty cycle < 98 %

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

#### For 5725 ~ 5850 MHz

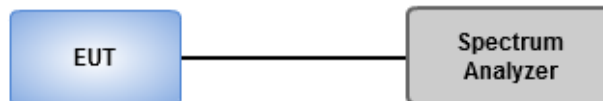
Duty cycle  $\geq$  98 %

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

Duty cycle < 98 %

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

### 3.3.3 Test Setup



### 3.3.4 Test Results

<b>Ambient Condition</b>	20-26°C / 61-67%	<b>Tested By</b>	Aska Huang
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Refer to Appendix C.

### 3.4 Unwanted Emissions

#### 3.4.1 Limit of Unwanted Emissions

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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



### 3.4.2 Test Procedures

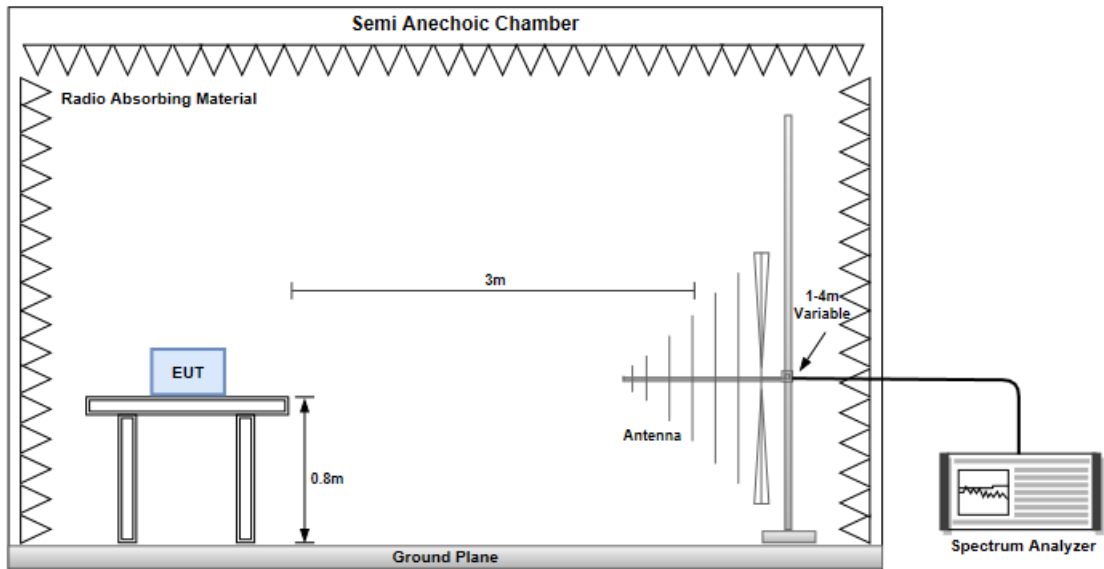
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

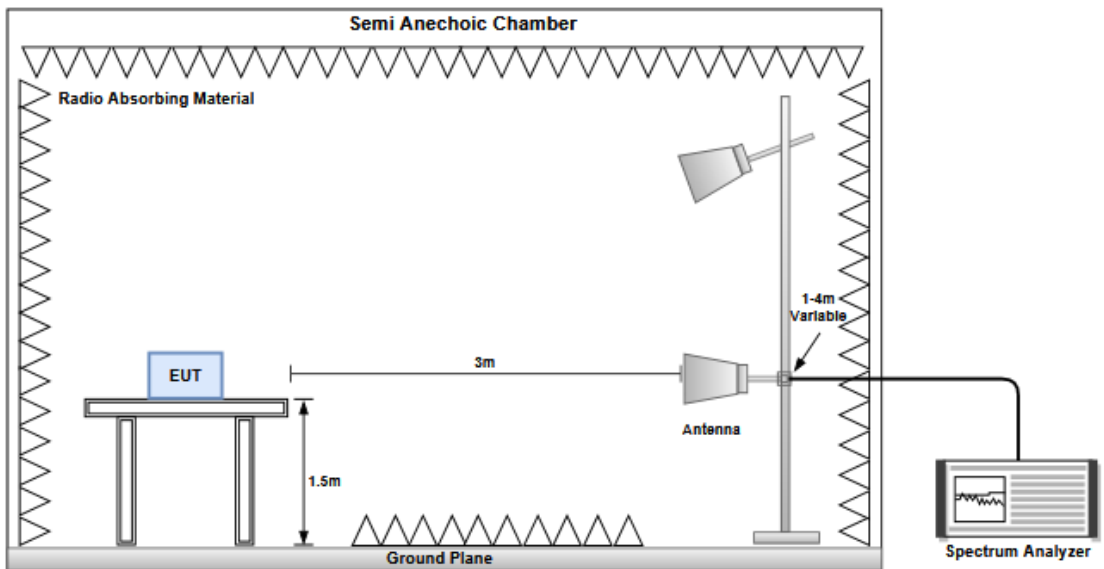
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

### 3.4.3 Test Setup

#### Unwanted Emissions below 1 GHz



#### Unwanted Emissions above 1 GHz



### 3.4.4 Test Results

Refer to Appendix D.

## 3.5 AC Power Line Conducted Emissions

### 3.5.1 Limit of AC Power Line Conducted Emissions

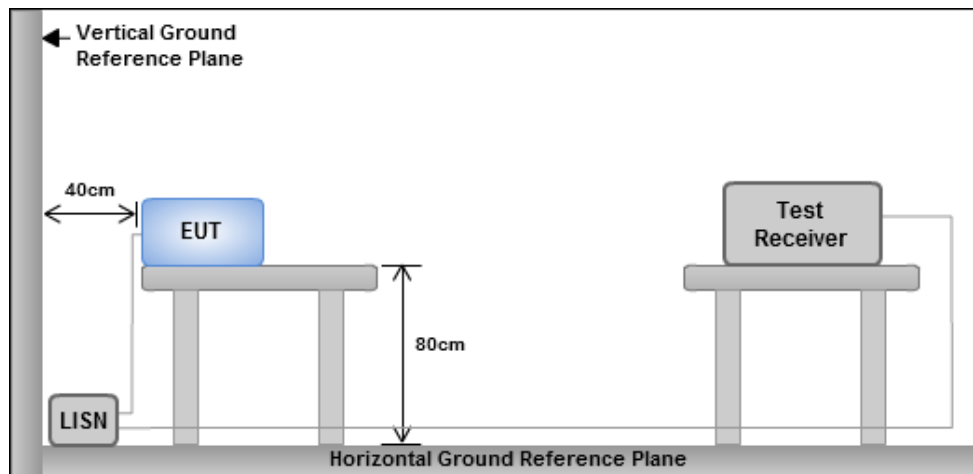
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

### 3.5.2 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  $\Omega$  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

### 3.5.3 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

### 3.5.4 Test Results

Refer to Appendix E.

## 4 Test laboratory information

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

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

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

### **Linkou**

Tel: 886-2-2601-1640

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

### **Kwei Shan**

Tel: 886-3-271-8666

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

### **Kwei Shan Site II**

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC\_Service@icertifi.com.tw

==END==



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_RU26_Index3_20MHz_Nss1,(MCS0)_2TX	18.084M	17.001M	17M0D1D	17.952M	16.792M
802.11ax HEW20_RU52_Index38_20MHz_Nss1,(MCS0)_2TX	18.744M	17.061M	17M1D1D	18.216M	17.001M
802.11ax HEW20_RU106_Index53_20MHz_Nss1,(MCS0)_2TX	20.328M	18.291M	18M3D1D	19.8M	18.051M
802.11ax HEW40_RU26_Index12_40MHz_Nss1,(MCS0)_2TX	19.272M	17.511M	17M5D1D	18.216M	17.091M
802.11ax HEW40_RU52_Index42_40MHz_Nss1,(MCS0)_2TX	19.536M	17.391M	17M4D1D	18.216M	16.912M
802.11ax HEW40_RU106_Index54_40MHz_Nss1,(MCS0)_2TX	24.552M	19.07M	19M1D1D	23.1M	18.531M
802.11ax HEW40_RU242_Index61_40MHz_Nss1,(MCS0)_2TX	32.472M	19.07M	19M1D1D	23.496M	18.891M
802.11ax HEW80_RU26_Index21_80MHz_Nss1,(MCS0)_2TX	18.48M	17.391M	17M4D1D	17.952M	17.151M
802.11ax HEW80_RU52_Index50_80MHz_Nss1,(MCS0)_2TX	20.064M	17.631M	17M6D1D	18.216M	17.151M
802.11ax HEW80_RU106_Index58_80MHz_Nss1,(MCS0)_2TX	41.976M	37.181M	37M2D1D	38.28M	36.582M
802.11ax HEW80_RU242_Index62_80MHz_Nss1,(MCS0)_2TX	48.84M	38.141M	38M1D1D	46.2M	37.781M
802.11ax HEW80_RU484_Index65_80MHz_Nss1,(MCS0)_2TX	49.632M	38.141M	38M1D1D	48.048M	37.661M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_RU26_Index3_20MHz_Nss1,(MCS0)_2TX	18.282M	17.031M	17M0D1D	17.952M	16.822M
802.11ax HEW20_RU52_Index38_20MHz_Nss1,(MCS0)_2TX	18.678M	17.091M	17M1D1D	18.282M	17.001M
802.11ax HEW20_RU106_Index53_20MHz_Nss1,(MCS0)_2TX	20.922M	18.321M	18M3D1D	19.8M	18.051M
802.11ax HEW40_RU26_Index12_40MHz_Nss1,(MCS0)_2TX	19.272M	17.571M	17M6D1D	19.008M	17.151M
802.11ax HEW40_RU52_Index42_40MHz_Nss1,(MCS0)_2TX	19.932M	17.451M	17M5D1D	19.14M	16.972M
802.11ax HEW40_RU106_Index54_40MHz_Nss1,(MCS0)_2TX	24.948M	19.13M	19M1D1D	22.308M	18.531M
802.11ax HEW40_RU242_Index61_40MHz_Nss1,(MCS0)_2TX	34.98M	19.19M	19M2D1D	26.136M	18.951M
802.11ax HEW80_RU26_Index21_80MHz_Nss1,(MCS0)_2TX	19.272M	17.511M	17M5D1D	19.008M	17.271M
802.11ax HEW80_RU52_Index50_80MHz_Nss1,(MCS0)_2TX	39.336M	17.631M	17M6D1D	19.536M	17.271M
802.11ax HEW80_RU106_Index58_80MHz_Nss1,(MCS0)_2TX	41.712M	37.181M	37M2D1D	39.6M	36.582M
802.11ax HEW80_RU242_Index62_80MHz_Nss1,(MCS0)_2TX	49.104M	38.261M	38M3D1D	47.52M	38.141M
802.11ax HEW80_RU484_Index65_80MHz_Nss1,(MCS0)_2TX	50.688M	38.501M	38M5D1D	45.936M	38.501M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_RU26_Index3_20MHz_Nss1,(MCS0)_2TX	18.282M	17.031M	17M0D1D	13.935M	13.358M
802.11ax HEW20_RU52_Index38_20MHz_Nss1,(MCS0)_2TX	18.942M	17.091M	17M1D1D	14.13M	13.553M
802.11ax HEW20_RU106_Index53_20MHz_Nss1,(MCS0)_2TX	21.516M	18.321M	18M3D1D	16.05M	14.618M
802.11ax HEW40_RU26_Index12_40MHz_Nss1,(MCS0)_2TX	19.404M	17.631M	17M6D1D	14.455M	13.818M
802.11ax HEW40_RU52_Index42_40MHz_Nss1,(MCS0)_2TX	19.668M	17.451M	17M5D1D	15.225M	13.713M
802.11ax HEW40_RU106_Index54_40MHz_Nss1,(MCS0)_2TX	24.948M	19.01M	19M0D1D	22.836M	18.576M
802.11ax HEW40_RU242_Index61_40MHz_Nss1,(MCS0)_2TX	35.244M	19.345M	19M3D1D	26.004M	18.951M
802.11ax HEW80_RU26_Index21_80MHz_Nss1,(MCS0)_2TX	19.272M	17.391M	17M4D1D	19.008M	17.241M
802.11ax HEW80_RU52_Index50_80MHz_Nss1,(MCS0)_2TX	39.336M	17.751M	17M8D1D	15.525M	13.868M
802.11ax HEW80_RU106_Index58_80MHz_Nss1,(MCS0)_2TX	41.976M	37.421M	37M4D1D	35.325M	32.984M
802.11ax HEW80_RU242_Index62_80MHz_Nss1,(MCS0)_2TX	50.16M	38.261M	38M3D1D	47.256M	38.141M
802.11ax HEW80_RU484_Index65_80MHz_Nss1,(MCS0)_2TX	63.975M	38.501M	38M5D1D	48.576M	38.141M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_RU26_Index3_20MHz_Nss1,(MCS0)_2TX	3.5M	17.031M	17M0D1D	2.046M	4.058M
802.11ax HEW20_RU52_Index38_20MHz_Nss1,(MCS0)_2TX	15.048M	17.061M	17M1D1D	3.46M	3.958M



Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ax HEW20_RU106_Index53_20MHz_Nss1,(MCS0)_2TX	17.16M	18.321M	18M3D1D	3.7M	3.838M
802.11ax HEW40_RU26_Index12_40MHz_Nss1,(MCS0)_2TX	3.48M	17.511M	17M5D1D	1.98M	3.878M
802.11ax HEW40_RU52_Index42_40MHz_Nss1,(MCS0)_2TX	15.048M	17.331M	17M3D1D	3.1M	3.838M
802.11ax HEW40_RU106_Index54_40MHz_Nss1,(MCS0)_2TX	17.292M	37.401M	37M4D1D	4.12M	18.951M
802.11ax HEW40_RU242_Index61_40MHz_Nss1,(MCS0)_2TX	18.612M	36.362M	36M4D1D	3.94M	18.831M
802.11ax HEW80_RU26_Index21_80MHz_Nss1,(MCS0)_2TX	39.08M	39.5M	39M5D1D	2.112M	17.271M
802.11ax HEW80_RU52_Index50_80MHz_Nss1,(MCS0)_2TX	15.048M	17.511M	17M5D1D	3.1M	3.858M
802.11ax HEW80_RU106_Index58_80MHz_Nss1,(MCS0)_2TX	28.776M	37.301M	37M3D1D	2.52M	9.155M
802.11ax HEW80_RU242_Index62_80MHz_Nss1,(MCS0)_2TX	36.168M	39.06M	39M1D1D	4.22M	37.661M
802.11ax HEW80_RU484_Index65_80MHz_Nss1,(MCS0)_2TX	37.224M	39M	39M0D1D	4.24M	37.781M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_RU26_Index3_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	18.018M	16.792M	18.084M	16.972M
5200MHz	Pass	Inf	18.018M	16.822M	18.084M	16.972M
5240MHz	Pass	Inf	17.952M	16.792M	18.084M	17.001M
5260MHz	Pass	Inf	18.018M	16.882M	18.018M	17.001M
5300MHz	Pass	Inf	17.952M	16.852M	18.216M	17.001M
5320MHz	Pass	Inf	18.018M	16.822M	18.282M	17.031M
5500MHz	Pass	Inf	18.018M	16.852M	18.084M	17.031M
5580MHz	Pass	Inf	18.084M	16.852M	18.282M	17.031M
5700MHz	Pass	Inf	18.084M	16.852M	18.216M	17.031M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	13.935M	13.358M	14.025M	13.433M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.48M	4.058M	3.5M	4.418M
5745MHz	Pass	500k	2.046M	16.882M	2.046M	17.031M
5785MHz	Pass	500k	2.046M	16.822M	2.046M	17.031M
5825MHz	Pass	500k	2.046M	16.792M	2.046M	17.001M
802.11ax HEW20_RU52_Index38_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	18.348M	17.001M	18.678M	17.061M
5200MHz	Pass	Inf	18.216M	17.001M	18.744M	17.031M
5240MHz	Pass	Inf	18.216M	17.001M	18.612M	17.031M
5260MHz	Pass	Inf	18.282M	17.031M	18.678M	17.091M
5300MHz	Pass	Inf	18.414M	17.031M	18.678M	17.091M
5320MHz	Pass	Inf	18.348M	17.001M	18.678M	17.031M
5500MHz	Pass	Inf	18.414M	17.001M	18.678M	17.061M
5580MHz	Pass	Inf	18.414M	17.001M	18.942M	17.091M
5700MHz	Pass	Inf	18.414M	17.061M	18.744M	17.061M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.13M	13.568M	14.55M	13.553M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.46M	3.958M	3.48M	4.158M
5745MHz	Pass	500k	14.982M	17.001M	13.794M	17.061M
5785MHz	Pass	500k	15.048M	16.972M	11.286M	17.061M
5825MHz	Pass	500k	14.982M	16.972M	13.794M	17.061M
802.11ax HEW20_RU106_Index53_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.866M	18.051M	20.328M	18.291M
5200MHz	Pass	Inf	19.8M	18.051M	20.262M	18.291M
5240MHz	Pass	Inf	19.932M	18.051M	20.328M	18.291M
5260MHz	Pass	Inf	19.932M	18.081M	20.526M	18.291M
5300MHz	Pass	Inf	20.328M	18.081M	20.922M	18.321M
5320MHz	Pass	Inf	19.8M	18.051M	19.998M	18.291M
5500MHz	Pass	Inf	19.734M	18.051M	20.328M	18.291M
5580MHz	Pass	Inf	20.328M	18.081M	21.516M	18.321M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5700MHz	Pass	Inf	19.866M	18.081M	20.394M	18.261M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.17M	14.618M	16.05M	14.648M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	3.838M	3.74M	4.018M
5745MHz	Pass	500k	17.094M	18.081M	17.16M	18.321M
5785MHz	Pass	500k	17.16M	18.051M	17.16M	18.261M
5825MHz	Pass	500k	17.16M	18.051M	17.16M	18.291M
802.11ax HEW40_RU26_Index12_40MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	18.216M	17.091M	19.272M	17.511M
5230MHz	Pass	Inf	18.348M	17.091M	19.14M	17.511M
5270MHz	Pass	Inf	19.14M	17.151M	19.272M	17.571M
5310MHz	Pass	Inf	19.008M	17.151M	19.14M	17.571M
5510MHz	Pass	Inf	19.14M	17.211M	19.14M	17.631M
5590MHz	Pass	Inf	19.14M	17.151M	19.272M	17.631M
5670MHz	Pass	Inf	19.14M	17.211M	19.404M	17.631M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	15.12M	13.818M	14.455M	14.203M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.36M	3.878M	3.48M	4.038M
5755MHz	Pass	500k	2.112M	17.091M	1.98M	17.511M
5795MHz	Pass	500k	2.112M	17.031M	2.112M	17.511M
802.11ax HEW40_RU52_Index42_40MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	18.216M	16.972M	19.536M	17.391M
5230MHz	Pass	Inf	18.216M	16.912M	19.536M	17.391M
5270MHz	Pass	Inf	19.14M	16.972M	19.668M	17.451M
5310MHz	Pass	Inf	19.272M	17.091M	19.932M	17.451M
5510MHz	Pass	Inf	19.272M	17.031M	19.668M	17.331M
5590MHz	Pass	Inf	19.272M	17.091M	19.536M	17.451M
5670MHz	Pass	Inf	19.272M	17.031M	19.668M	17.391M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	15.225M	13.713M	15.575M	13.993M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.838M	3.48M	3.898M
5755MHz	Pass	500k	5.94M	16.912M	12.408M	17.331M
5795MHz	Pass	500k	15.048M	16.912M	3.96M	17.211M
802.11ax HEW40_RU106_Index54_40MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	23.1M	18.651M	24.156M	19.07M
5230MHz	Pass	Inf	23.364M	18.531M	24.552M	19.01M
5270MHz	Pass	Inf	22.836M	18.711M	24.948M	19.13M
5310MHz	Pass	Inf	22.308M	18.531M	24.156M	19.01M
5510MHz	Pass	Inf	23.496M	18.591M	24.024M	18.951M
5590MHz	Pass	Inf	23.1M	18.651M	24.948M	19.01M
5670MHz	Pass	Inf	22.836M	18.591M	24.156M	18.951M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	22.995M	18.576M	24.465M	18.926M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.12M	37.401M	4.16M	36.782M





Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5755MHz	Pass	500k	17.292M	19.07M	17.16M	19.01M
5795MHz	Pass	500k	17.16M	18.951M	17.16M	19.01M
802.11ax HEW40_RU242_Index61_40MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	23.496M	18.891M	28.512M	18.891M
5230MHz	Pass	Inf	25.08M	18.891M	32.472M	19.07M
5270MHz	Pass	Inf	27.984M	19.01M	34.98M	19.19M
5310MHz	Pass	Inf	26.136M	18.951M	31.284M	19.01M
5510MHz	Pass	Inf	26.004M	18.951M	29.832M	19.01M
5590MHz	Pass	Inf	34.848M	19.07M	35.244M	19.13M
5670MHz	Pass	Inf	26.532M	19.01M	29.304M	19.01M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	29.61M	18.996M	30.24M	19.345M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	36.182M	3.94M	36.362M
5755MHz	Pass	500k	18.348M	18.831M	18.612M	18.831M
5795MHz	Pass	500k	18.216M	18.831M	18.612M	18.951M
802.11ax HEW80_RU26_Index21_80MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	17.952M	17.151M	18.48M	17.391M
5290MHz	Pass	Inf	19.008M	17.271M	19.272M	17.511M
5530MHz	Pass	Inf	19.272M	17.391M	19.008M	17.391M
5610MHz	Pass	Inf	19.272M	17.271M	19.008M	17.391M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	19.125M	17.241M	19.05M	17.391M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	23.88M	39.5M	39.08M	39.44M
5775MHz	Pass	500k	2.112M	17.271M	2.112M	17.271M
802.11ax HEW80_RU52_Index50_80MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	18.216M	17.151M	20.064M	17.631M
5290MHz	Pass	Inf	39.336M	17.271M	19.536M	17.631M
5530MHz	Pass	Inf	39.336M	17.271M	19.8M	17.751M
5610MHz	Pass	Inf	39.336M	17.151M	19.536M	17.631M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	35.175M	13.868M	15.525M	14.093M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.858M	3.48M	4.258M
5775MHz	Pass	500k	15.048M	17.151M	15.048M	17.511M
802.11ax HEW80_RU106_Index58_80MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	38.28M	36.582M	41.976M	37.181M
5290MHz	Pass	Inf	39.6M	36.582M	41.712M	37.181M
5530MHz	Pass	Inf	39.336M	36.702M	41.712M	37.421M
5610MHz	Pass	Inf	39.336M	36.822M	41.976M	37.301M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	35.325M	32.984M	36.6M	33.433M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	2.52M	12.174M	3.08M	9.155M
5775MHz	Pass	500k	28.776M	36.702M	28.776M	37.301M
802.11ax HEW80_RU242_Index62_80MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5210MHz	Pass	Inf	46.2M	37.781M	48.84M	38.141M
5290MHz	Pass	Inf	47.52M	38.141M	49.104M	38.261M
5530MHz	Pass	Inf	47.256M	38.261M	49.368M	38.141M
5610MHz	Pass	Inf	47.256M	38.261M	50.16M	38.261M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	49.575M	38.156M	48.45M	38.231M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.22M	39M	4.62M	39.06M
5775MHz	Pass	500k	36.168M	37.661M	32.472M	37.901M
802.11ax HEW80_RU484_Index65_80MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	48.048M	37.661M	49.632M	38.141M
5290MHz	Pass	Inf	45.936M	38.501M	50.688M	38.501M
5530MHz	Pass	Inf	49.632M	38.501M	53.064M	38.501M
5610MHz	Pass	Inf	48.576M	38.381M	52.008M	38.141M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	63.975M	38.456M	63.3M	38.306M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.34M	38.981M	4.24M	39M
5775MHz	Pass	500k	36.432M	37.781M	37.224M	38.021M

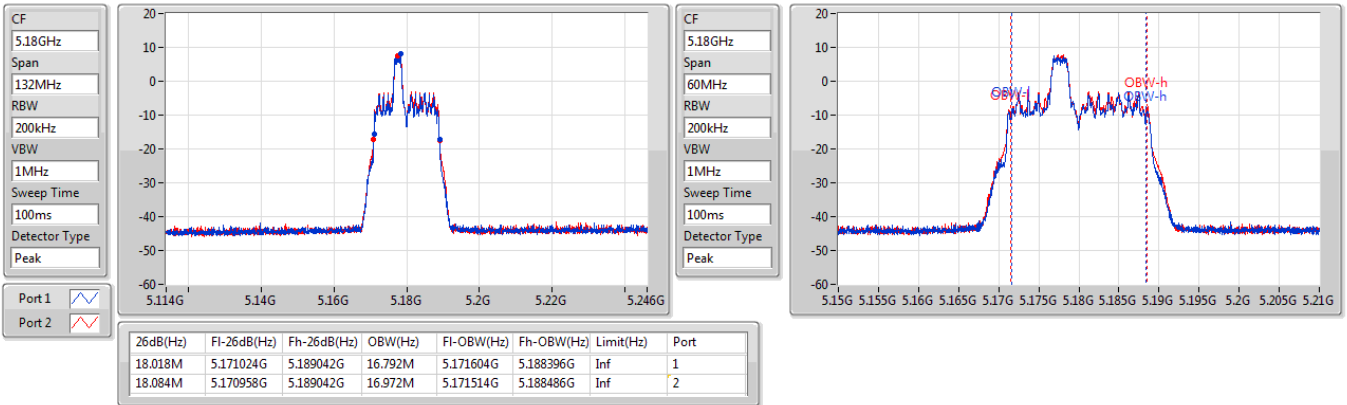
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz\_802.11ax\_HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

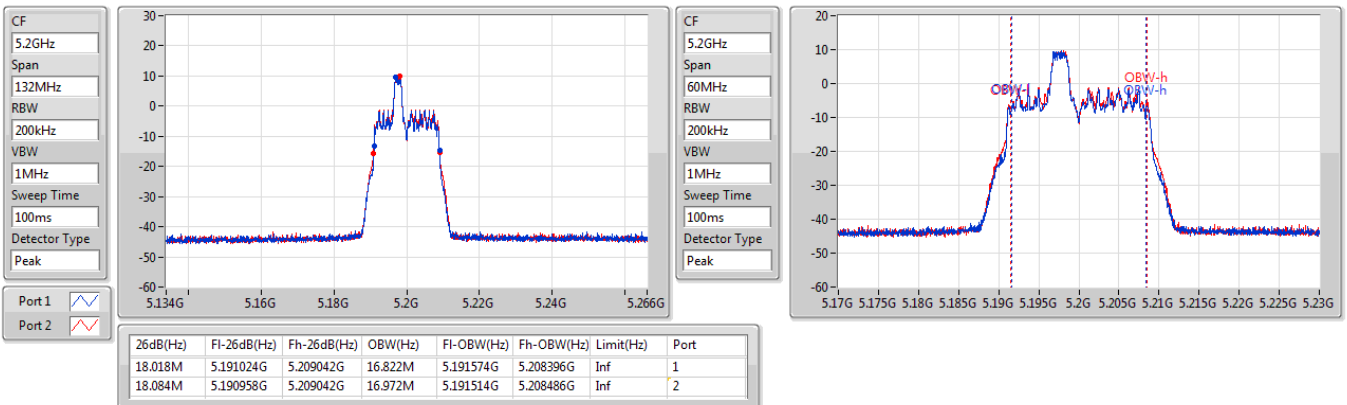
5180MHz



5.15-5.25GHz\_802.11ax\_HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

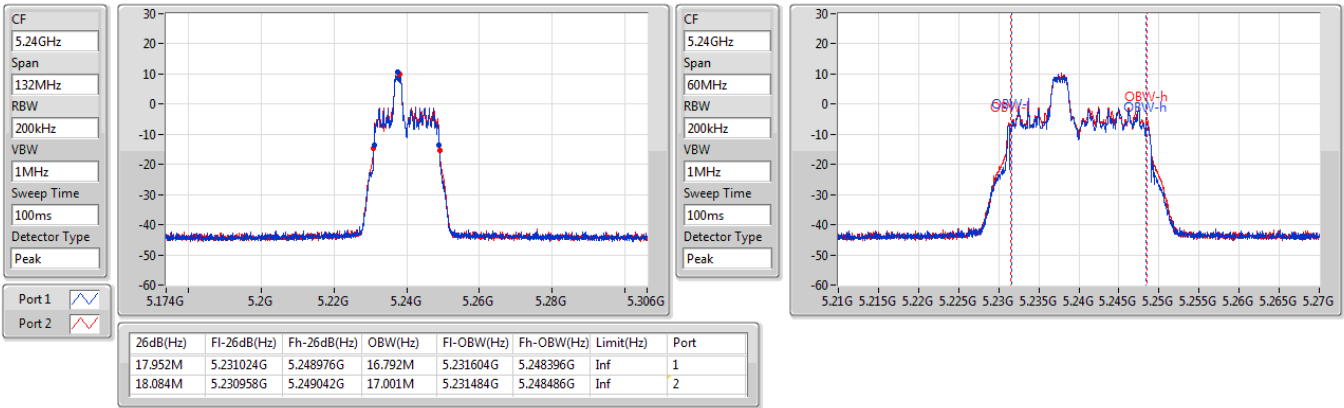
5200MHz



5.15-5.25GHz\_802.11ax\_HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

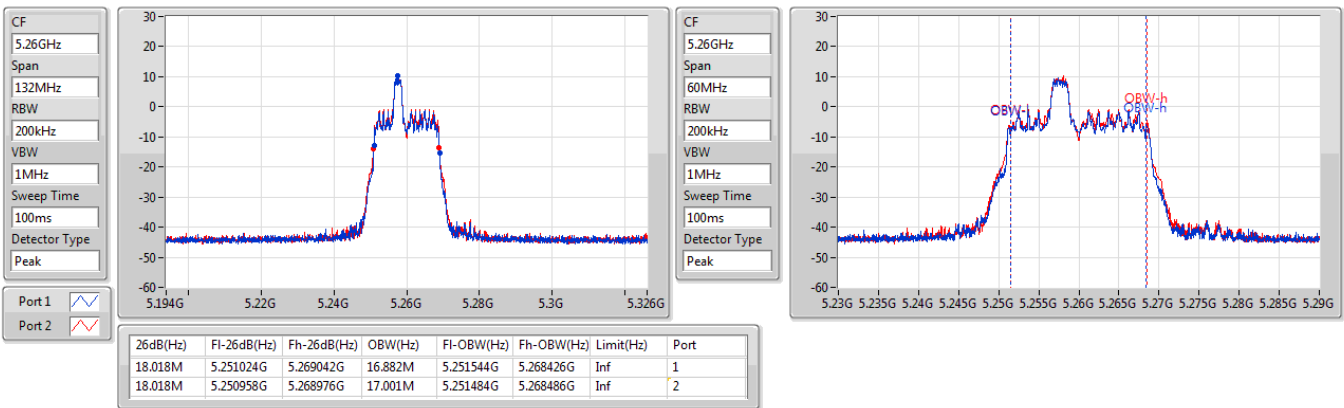
5240MHz



5.25-5.35GHz\_802.11ax\_HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5260MHz

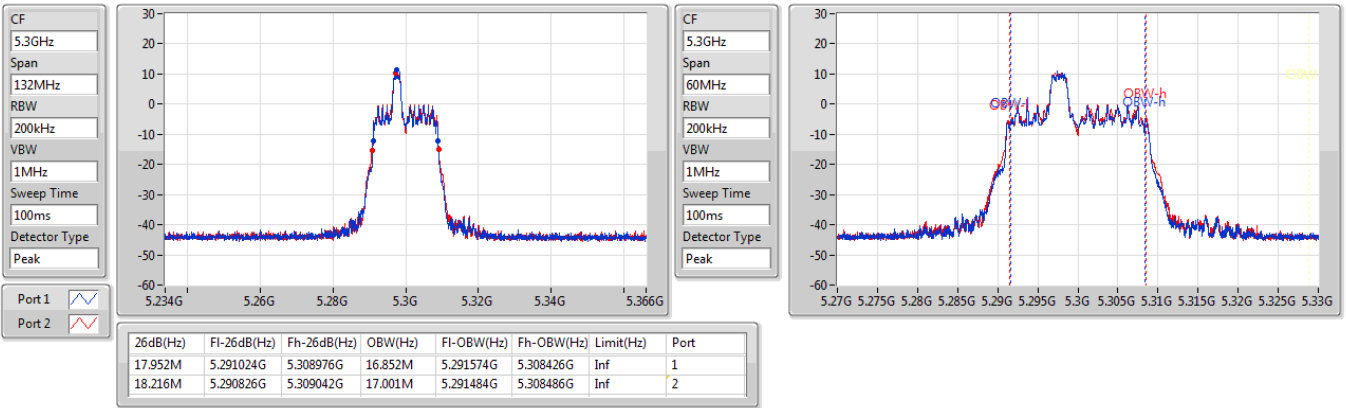




5.25-5.35GHz\_802.11ax\_HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

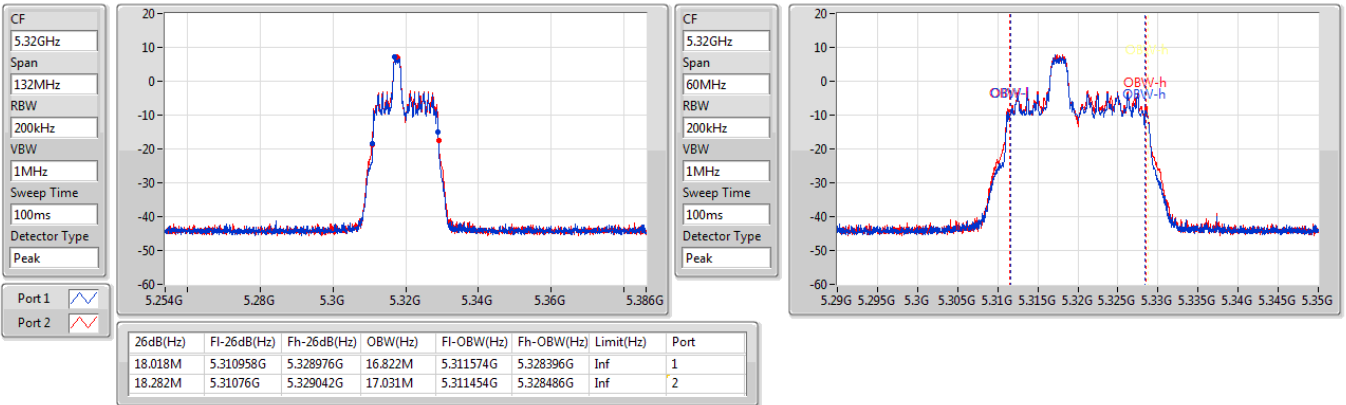
5300MHz



5.25-5.35GHz\_802.11ax\_HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

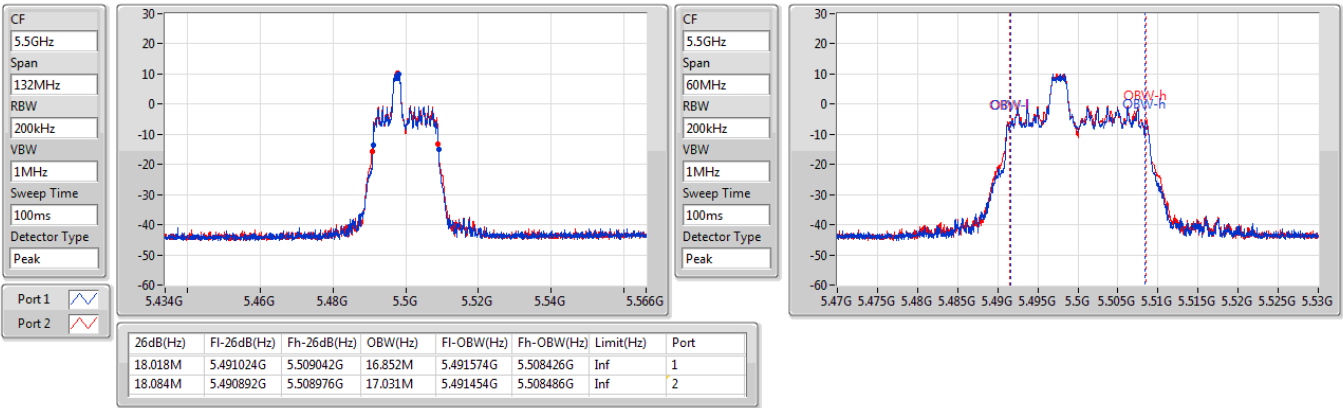
5320MHz



5.47-5.725GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

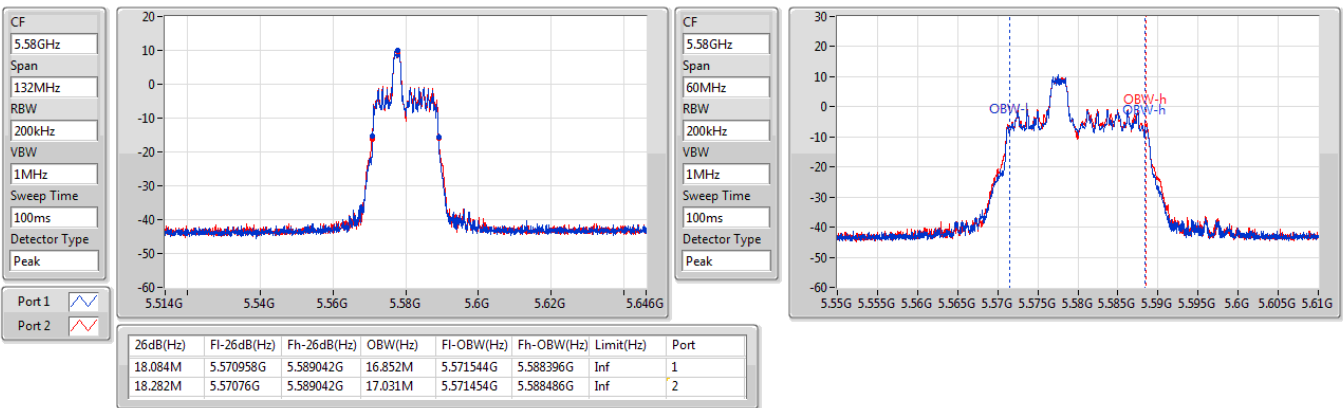
5500MHz



5.47-5.725GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5580MHz

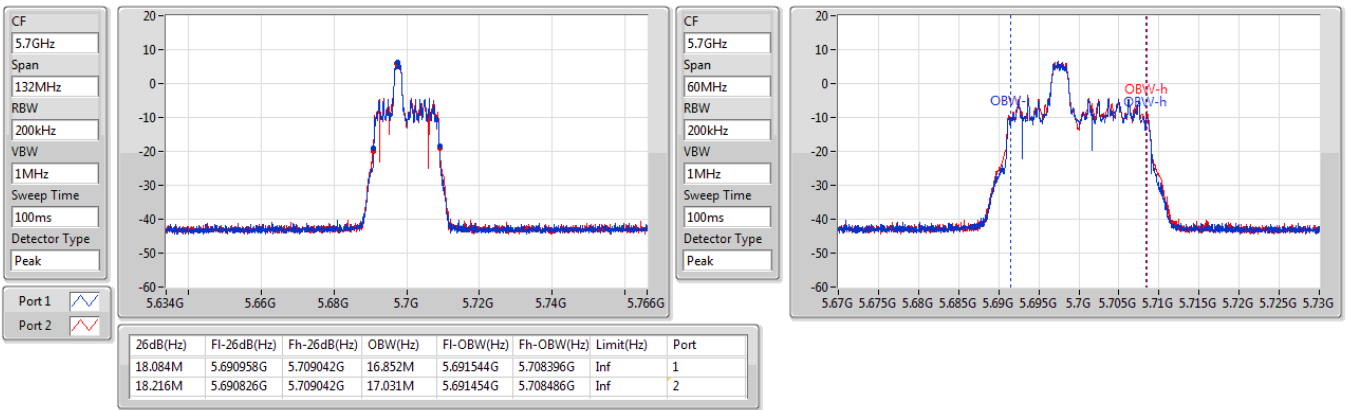




5.47-5.725GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

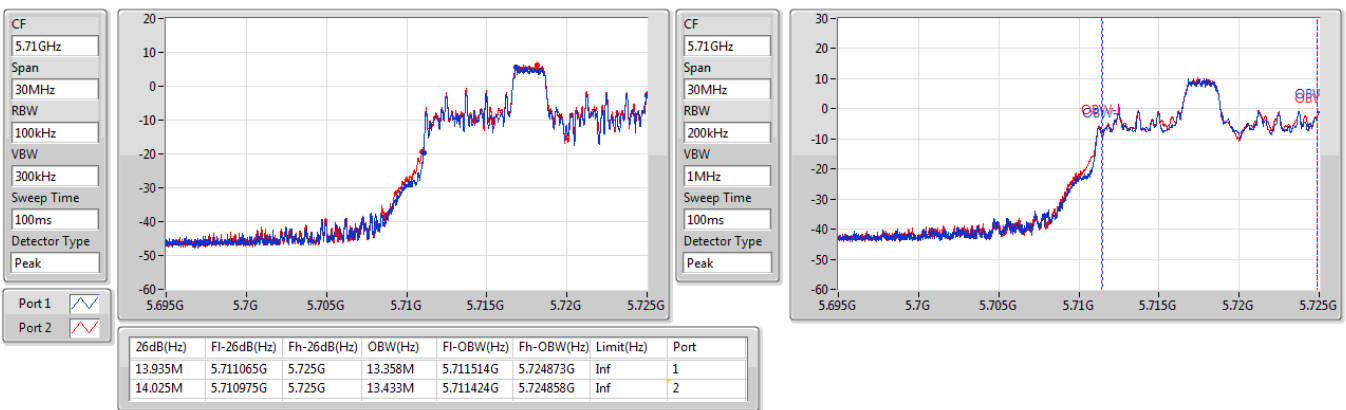
5700MHz



5.47-5.725GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

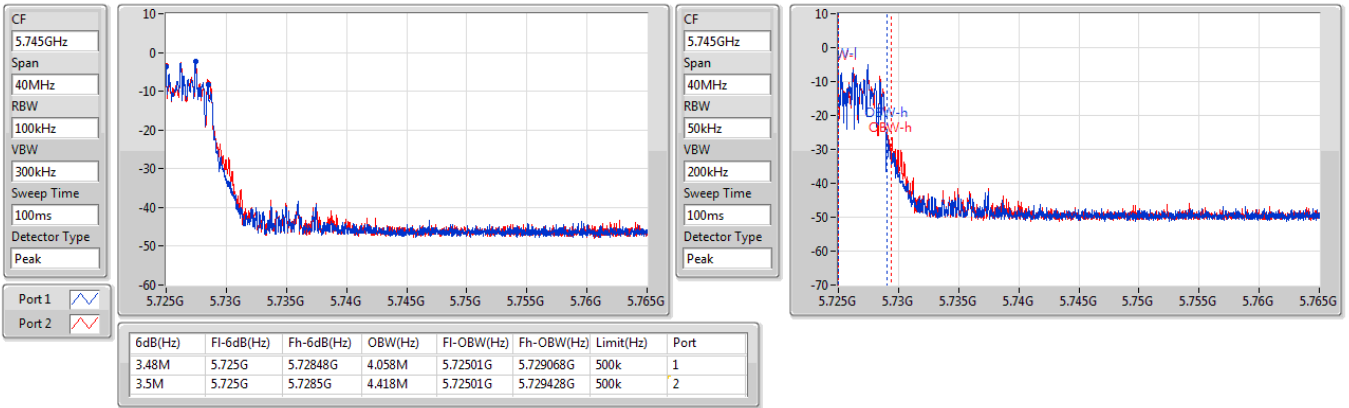




5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

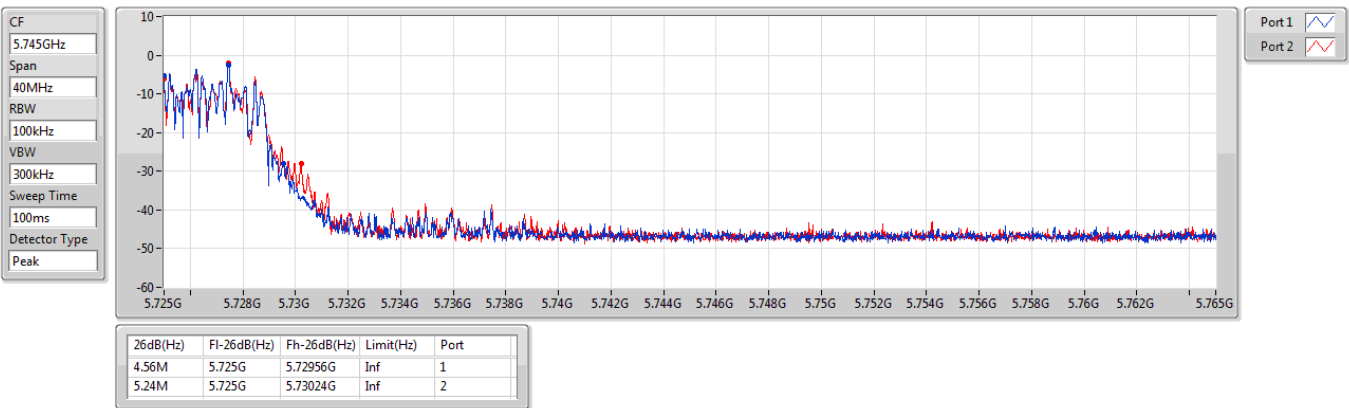
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5720MHz Straddle 5.725-5.85GHz



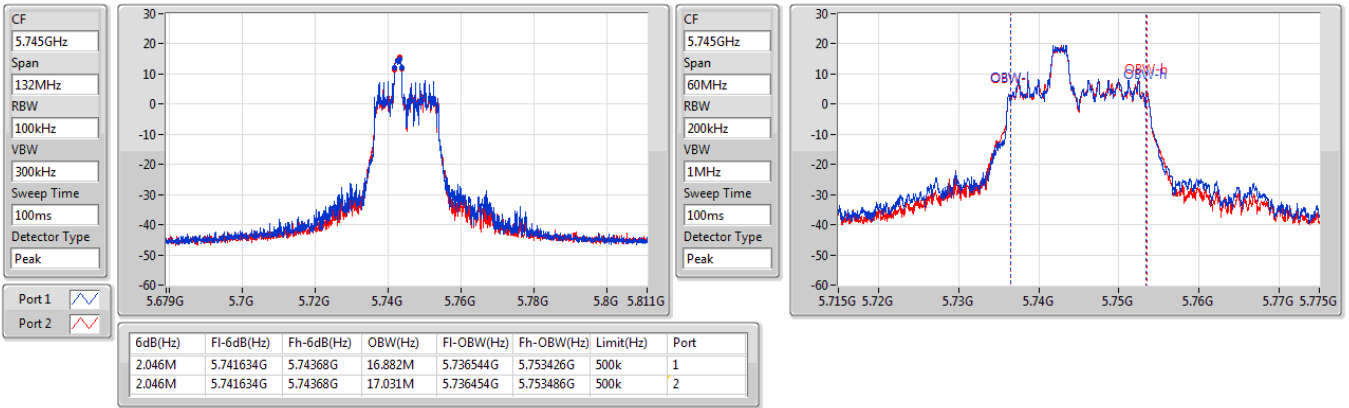




5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

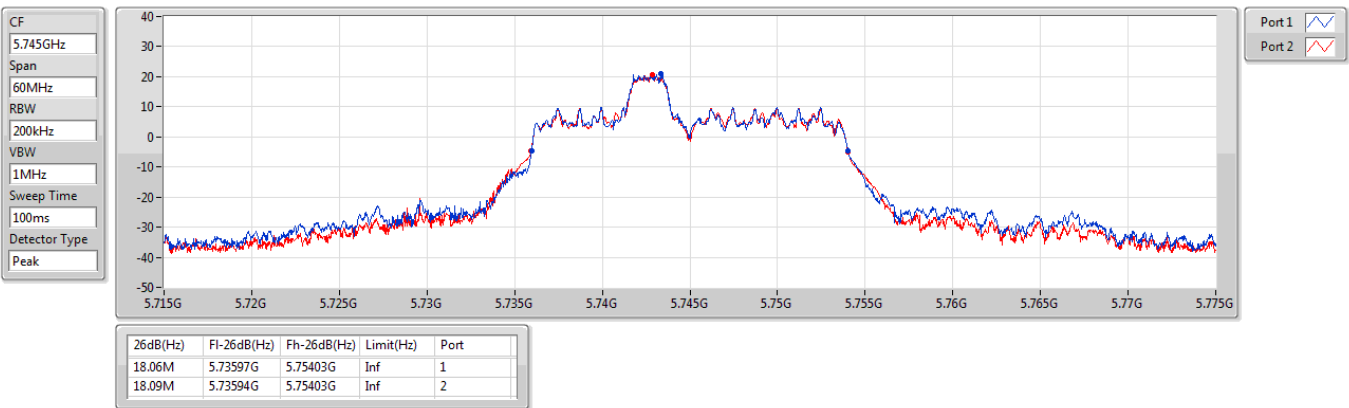
5745MHz



5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5745MHz

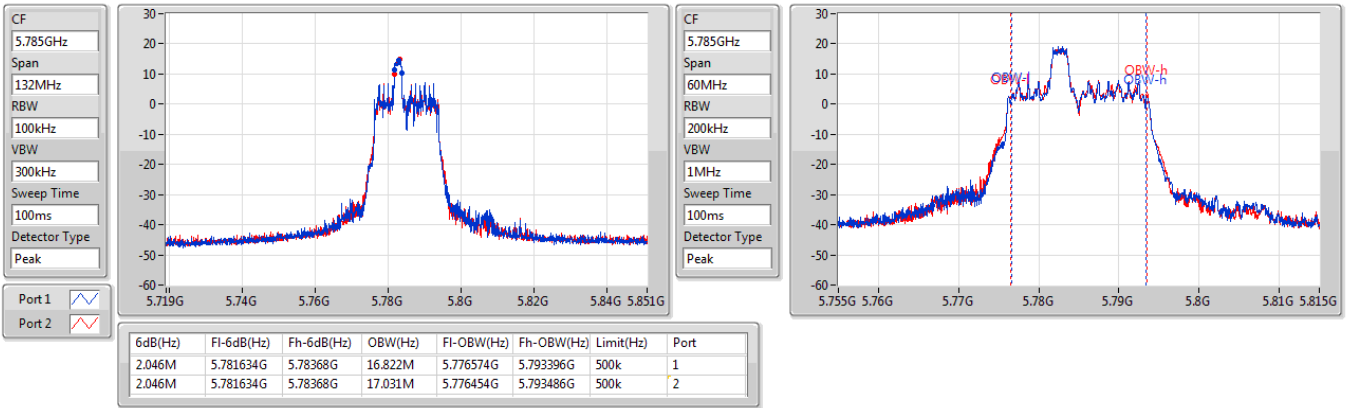




5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

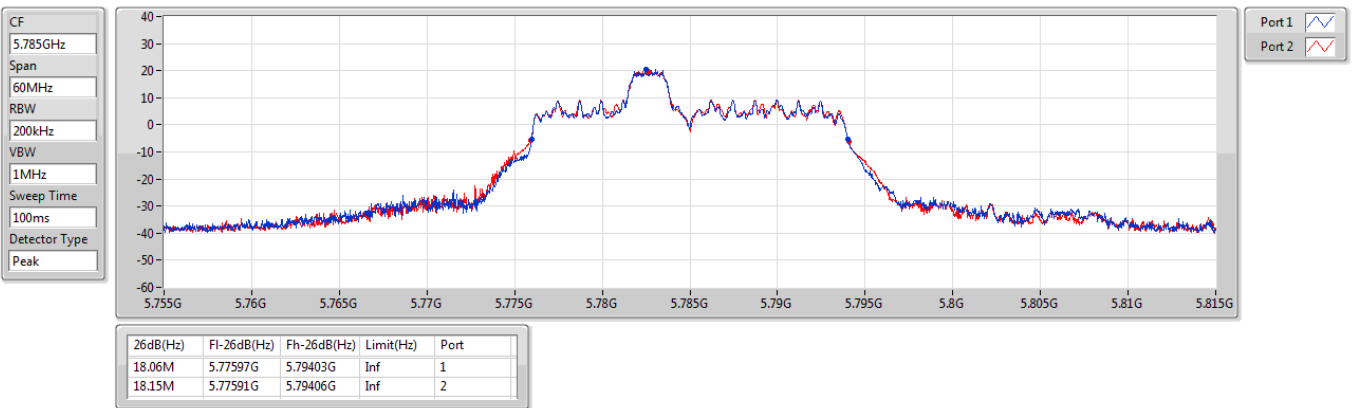
5785MHz



5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5785MHz

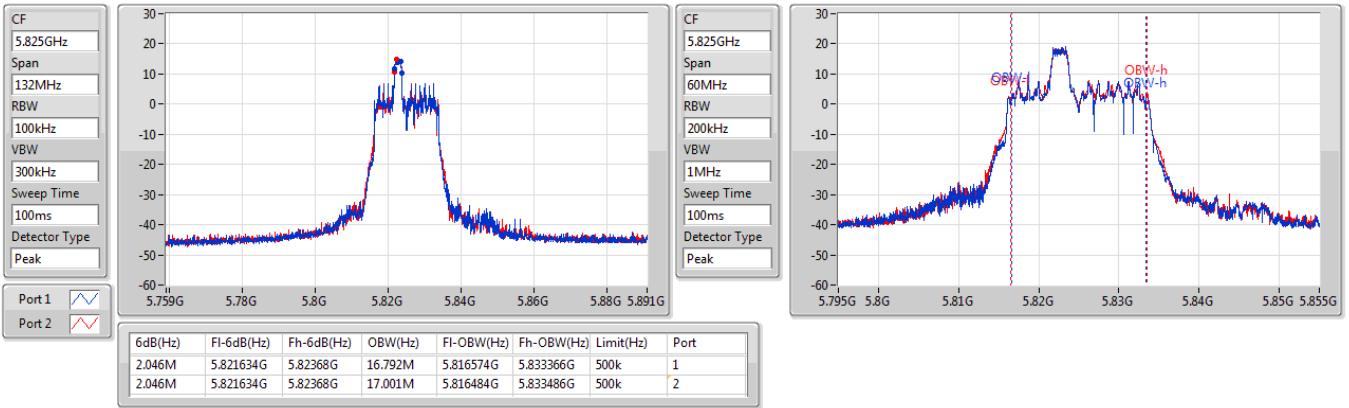




5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

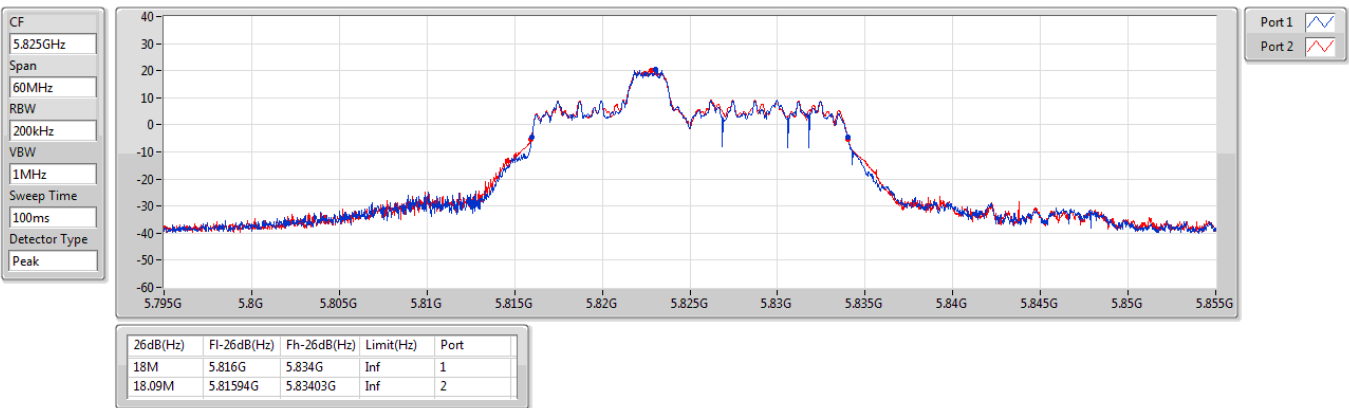
5825MHz



5.725-5.85GHz\_802.11ax HEW20\_RU26\_Index3\_20MHz\_Nss1,(MCS0)\_2TX

EBW

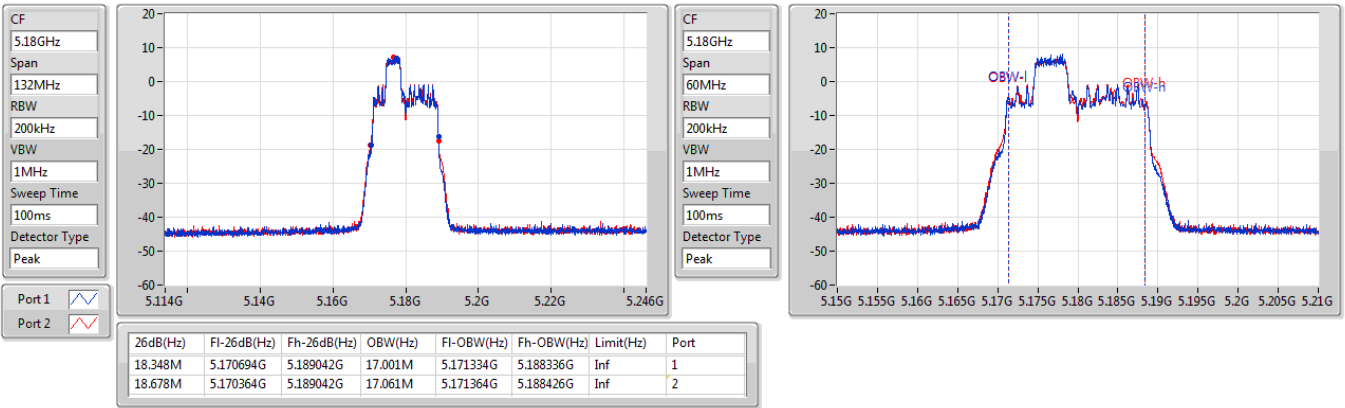
5825MHz



5.15-5.25GHz\_802.11ax\_HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

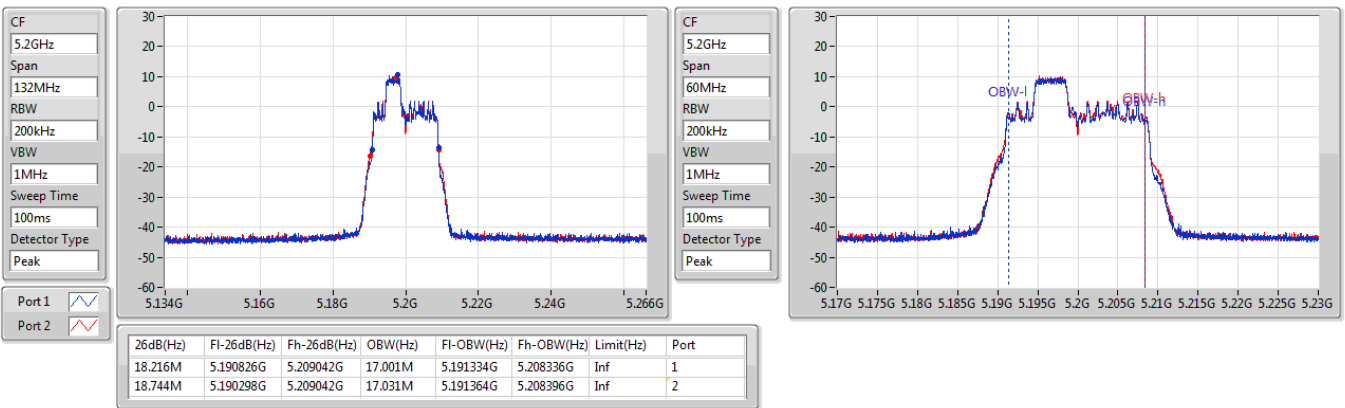
5180MHz



5.15-5.25GHz\_802.11ax\_HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

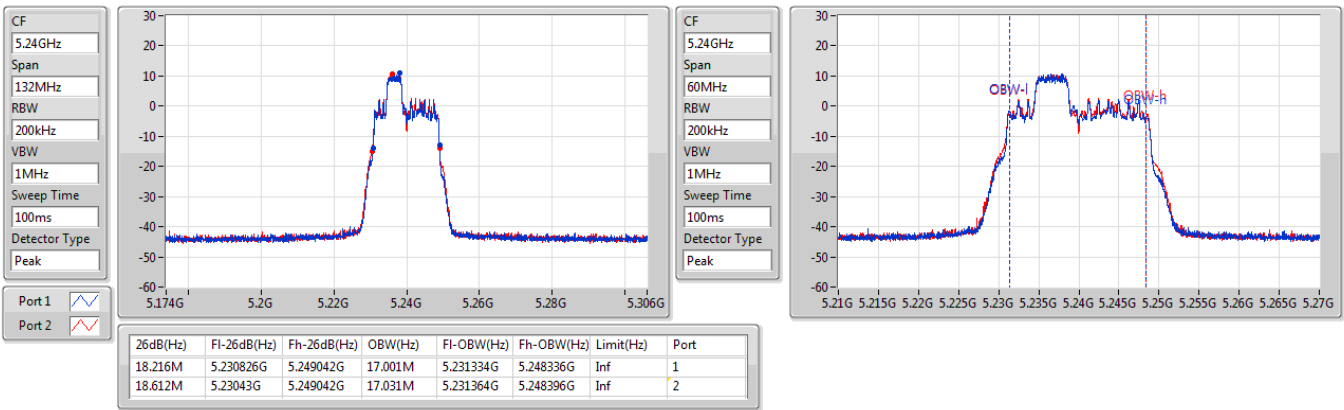
5200MHz



5.15-5.25GHz\_802.11ax\_HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

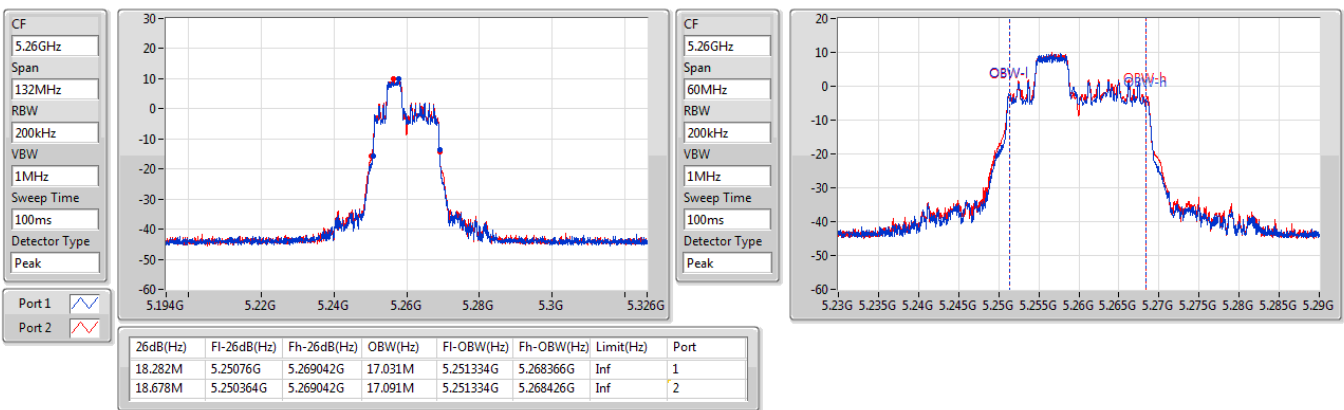
5240MHz



5.25-5.35GHz\_802.11ax\_HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5260MHz

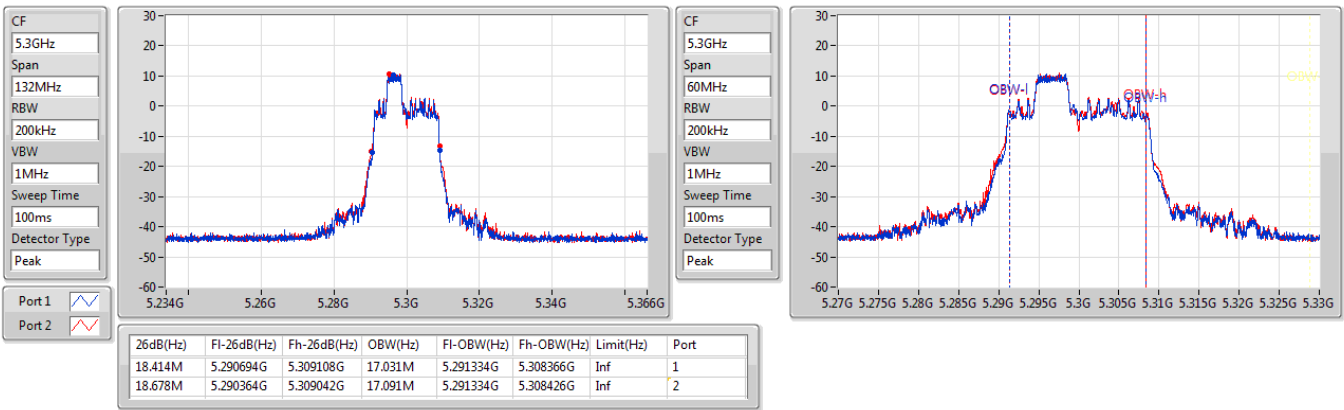




5.25-5.35GHz\_802.11ax\_HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

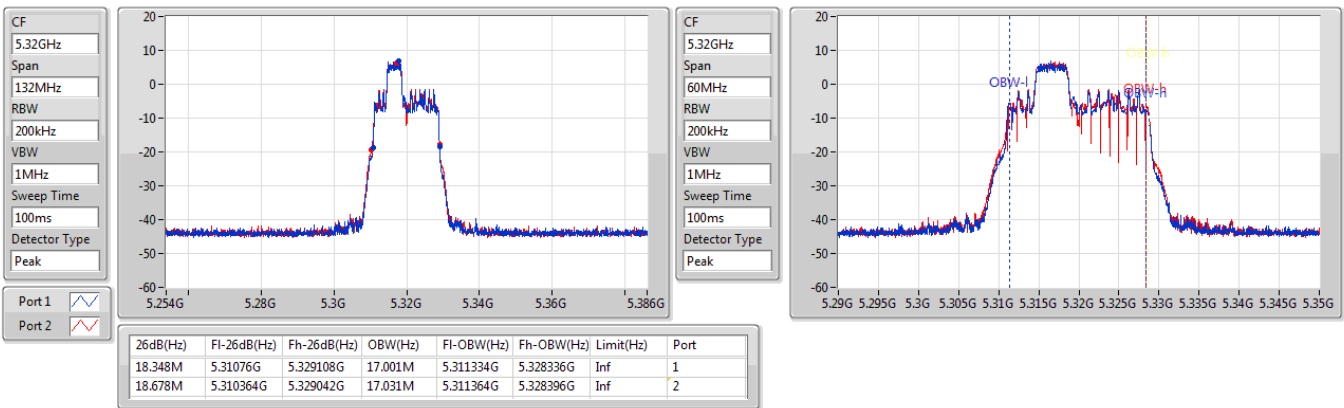
5300MHz



5.25-5.35GHz\_802.11ax\_HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

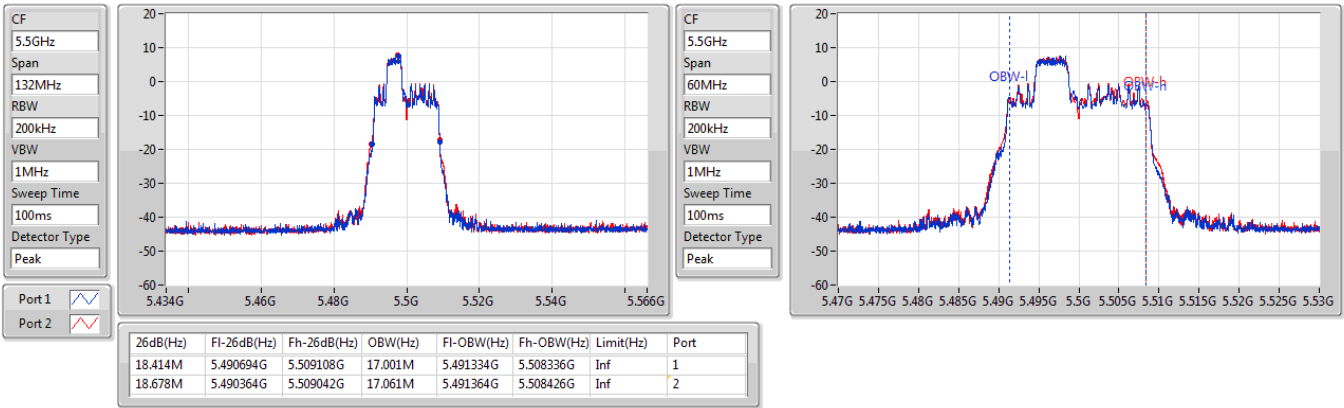
5320MHz



5.47-5.725GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

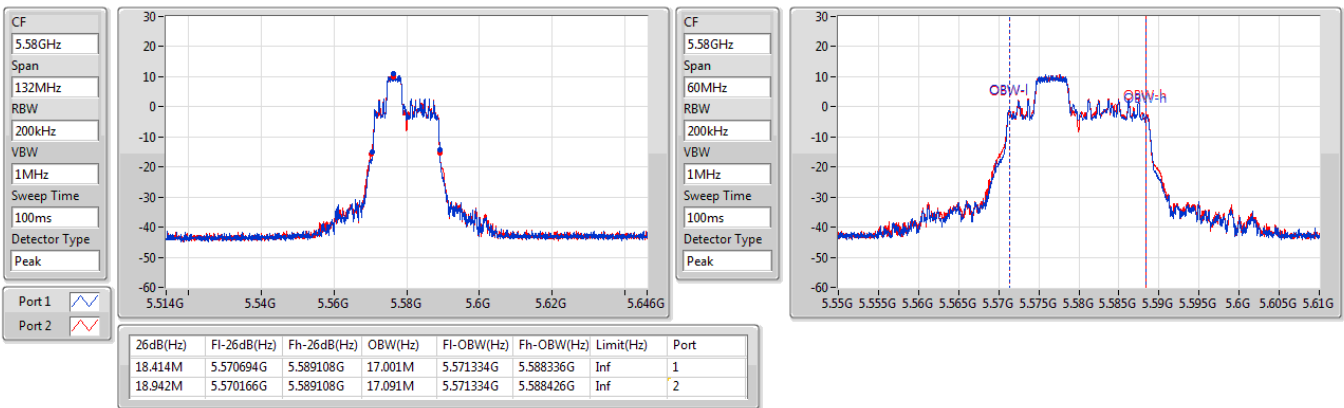
5500MHz



5.47-5.725GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

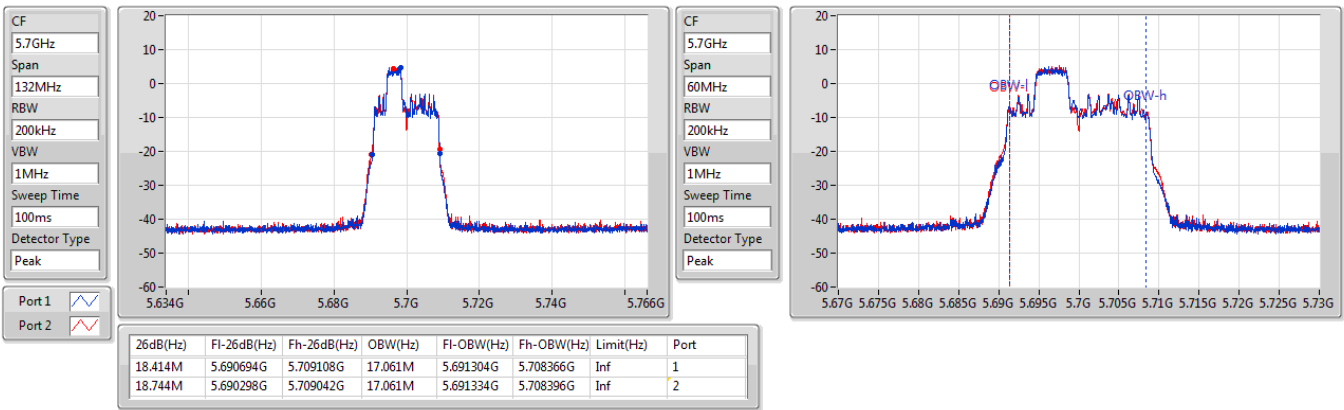
5580MHz



5.47-5.725GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

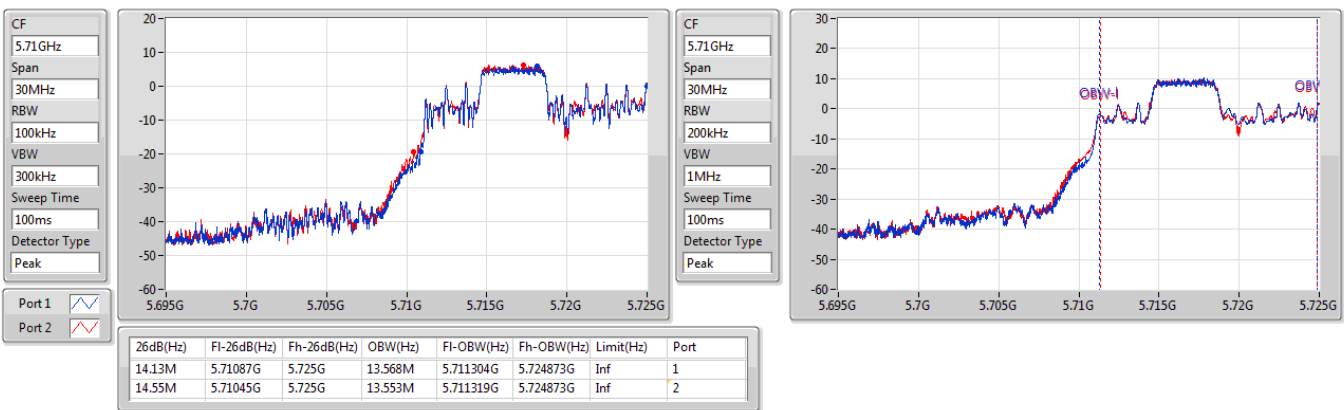
5700MHz



5.47-5.725GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5720MHz Straddle 5.47-5.725GHz



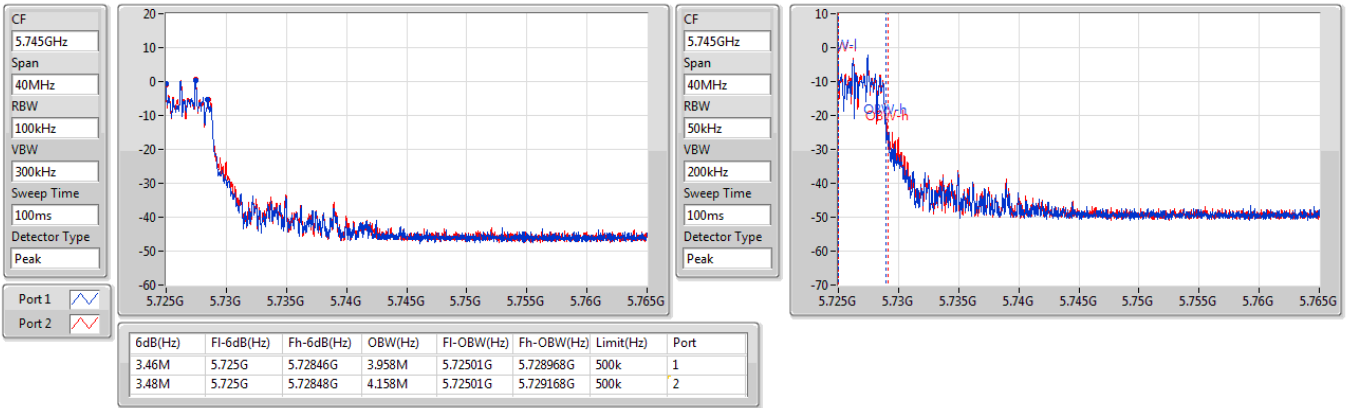




5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

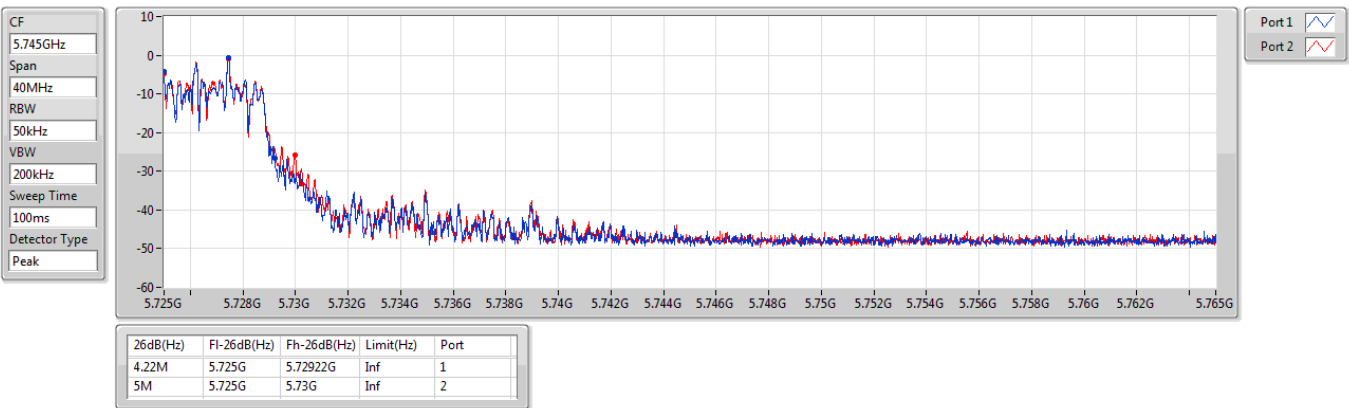
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

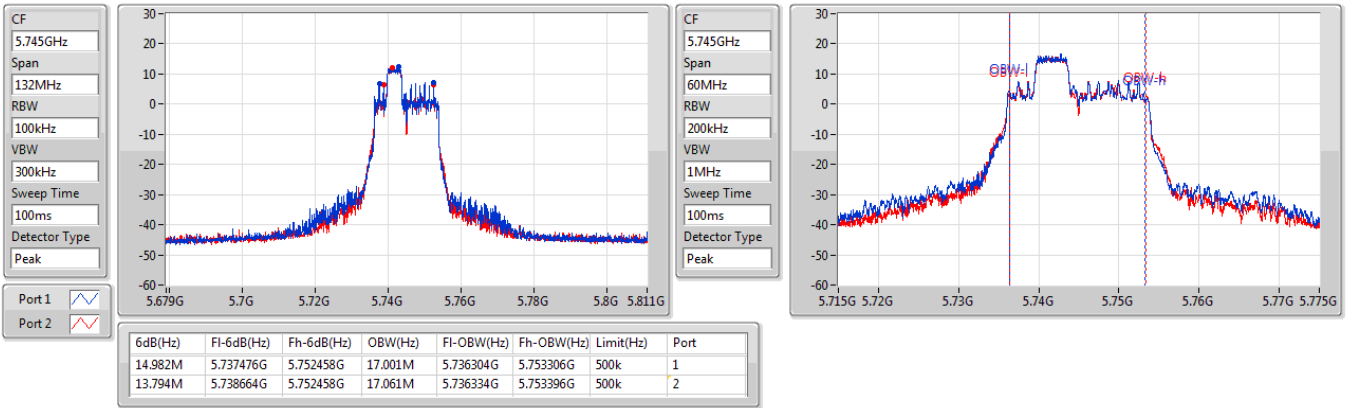




5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

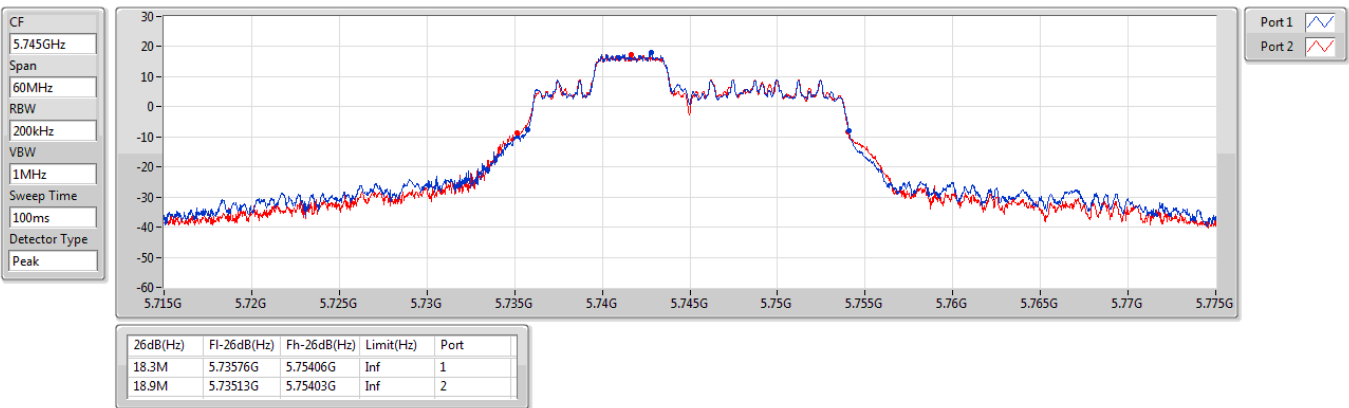
5745MHz



5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5745MHz

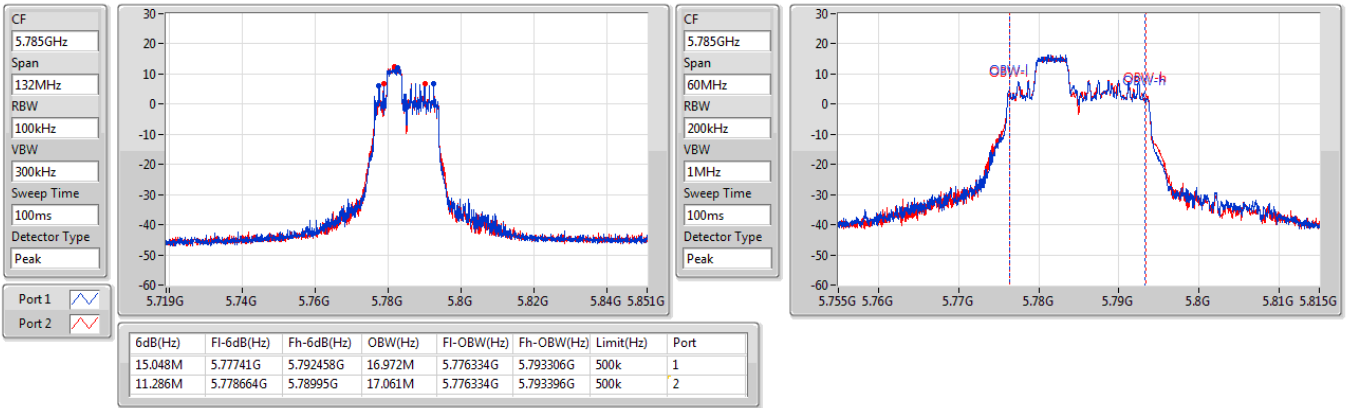




5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

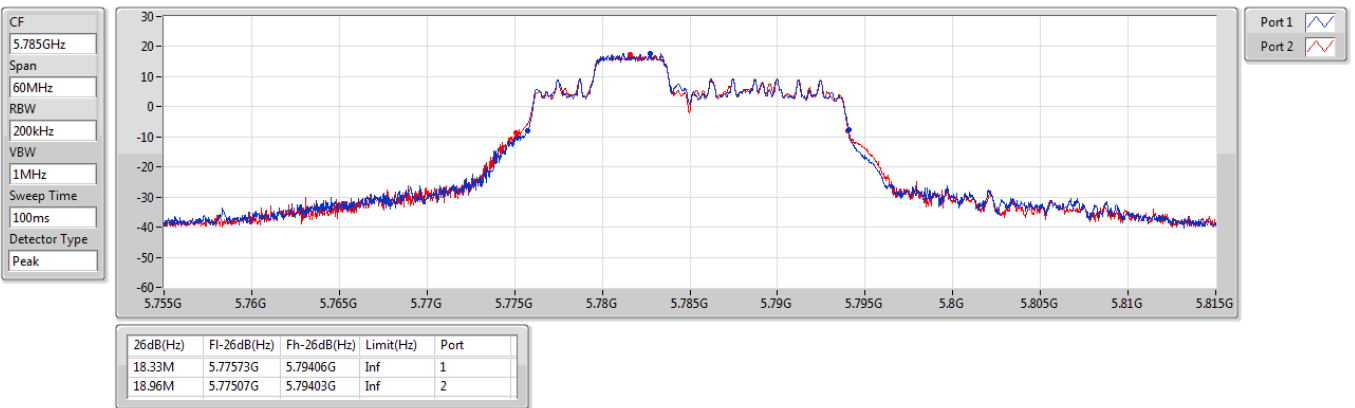
5785MHz



5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5785MHz



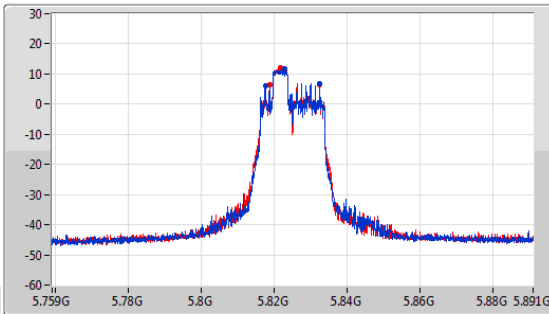


5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

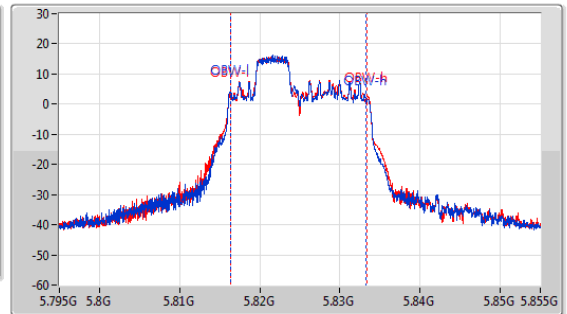
EBW

5825MHz

CF: 5.825GHz  
 Span: 132MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.825GHz  
 Span: 60MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



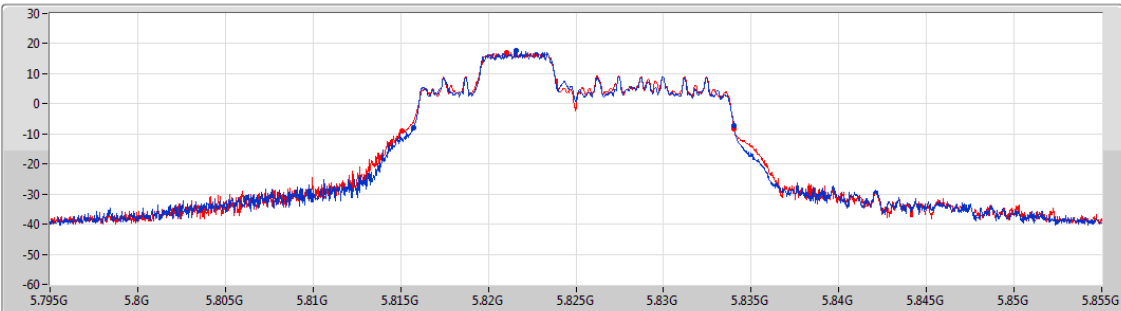
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.982M	5.817476G	5.832458G	16.972M	5.816334G	5.833306G	500k	1
13.794M	5.818664G	5.832458G	17.061M	5.816334G	5.833396G	500k	2

5.725-5.85GHz\_802.11ax HEW20\_RU52\_Index38\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5825MHz

CF: 5.825GHz  
 Span: 60MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



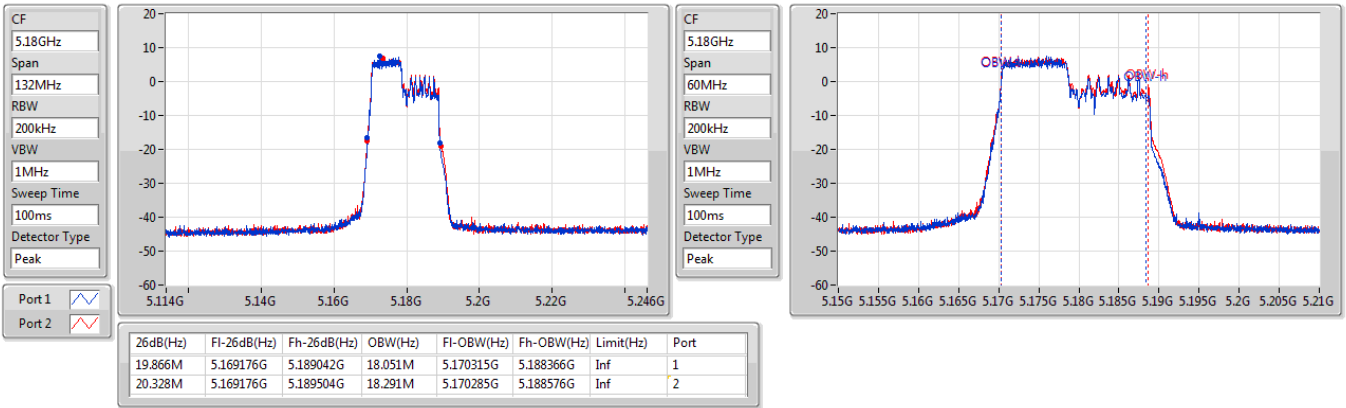
Port 1  
 Port 2

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
18.27M	5.81576G	5.83403G	Inf	1
18.96M	5.81507G	5.83403G	Inf	2

5.15-5.25GHz\_802.11ax\_HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

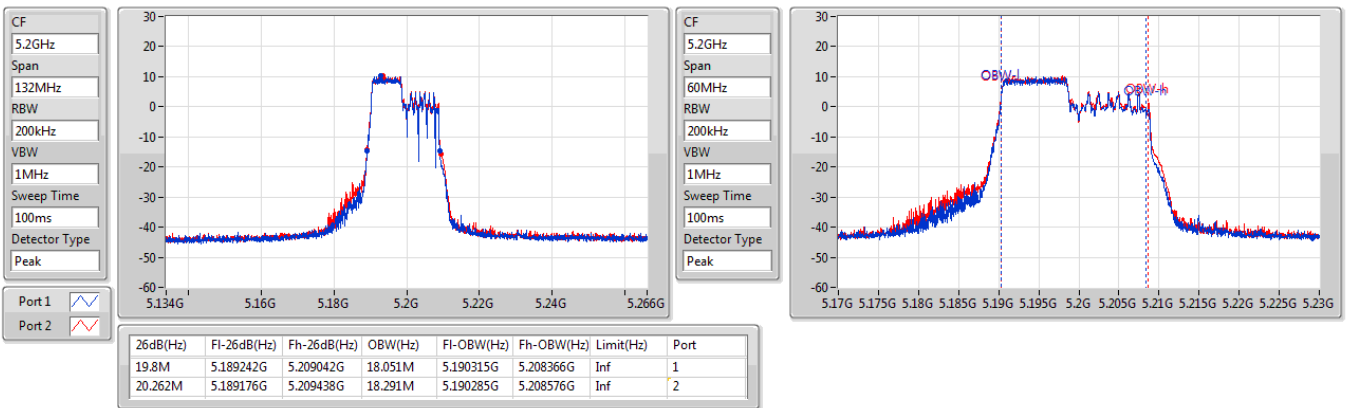
5180MHz



5.15-5.25GHz\_802.11ax\_HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

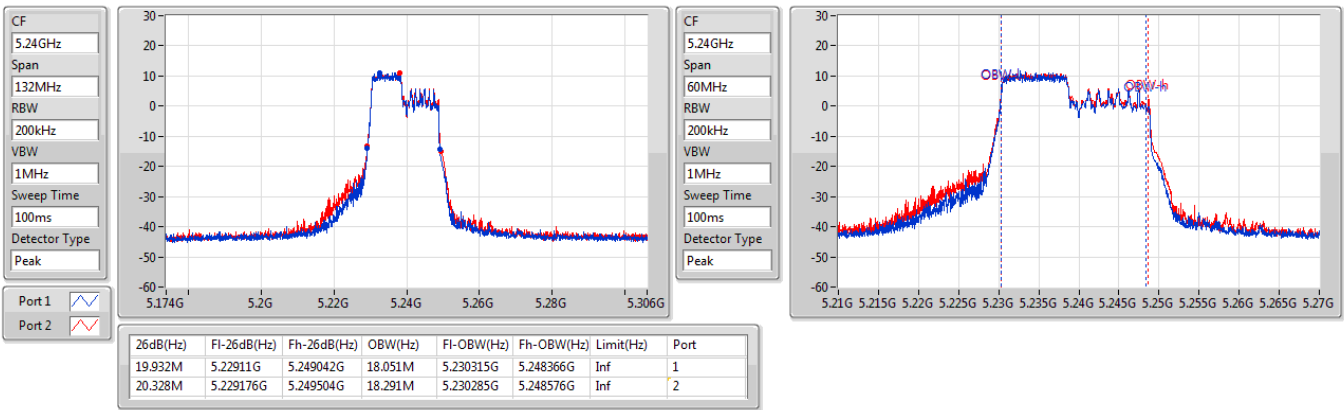
5200MHz



5.15-5.25GHz\_802.11ax\_HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

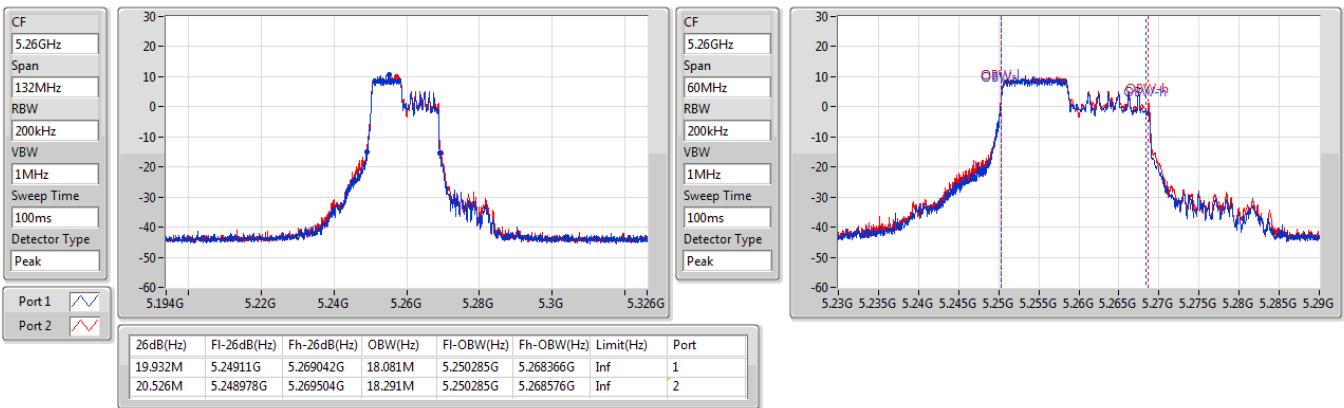
5240MHz



5.25-5.35GHz\_802.11ax\_HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5260MHz

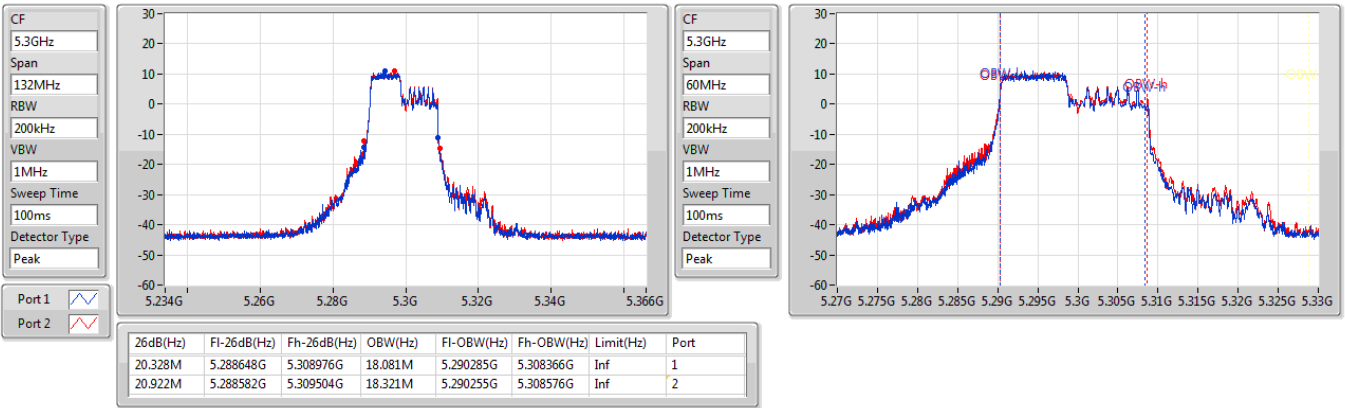




5.25-5.35GHz\_802.11ax\_HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

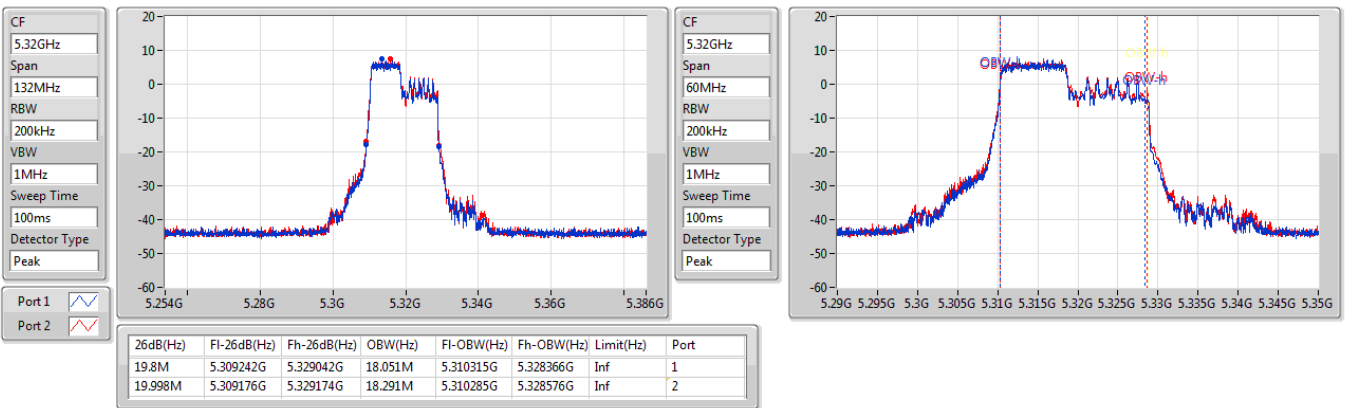
5300MHz



5.25-5.35GHz\_802.11ax\_HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

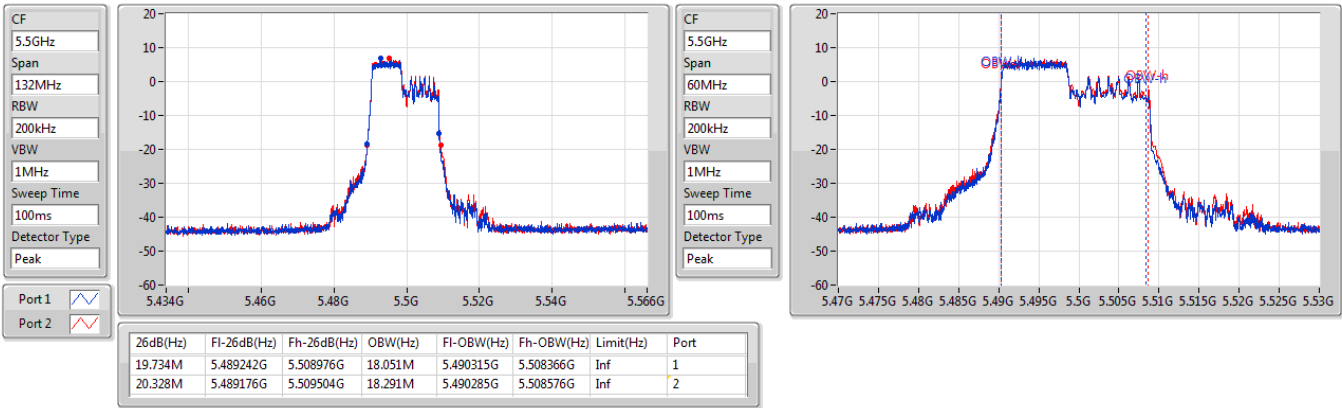
5320MHz



5.47-5.725GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

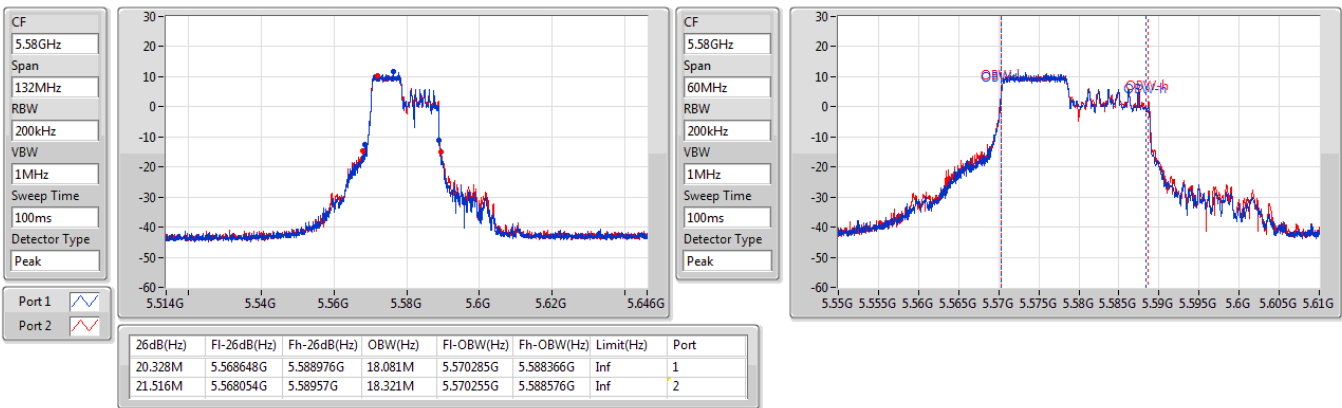
5500MHz



5.47-5.725GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5580MHz

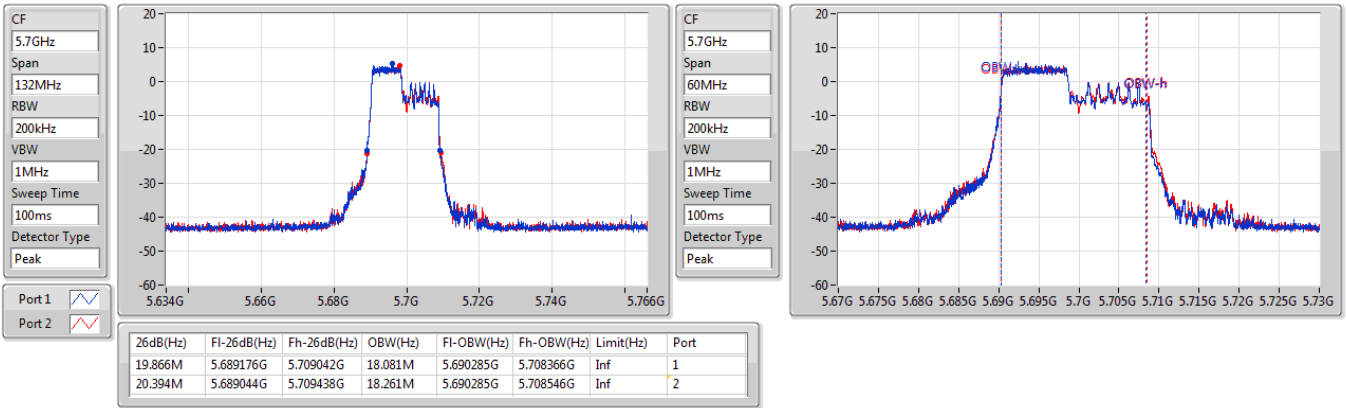




5.47-5.725GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

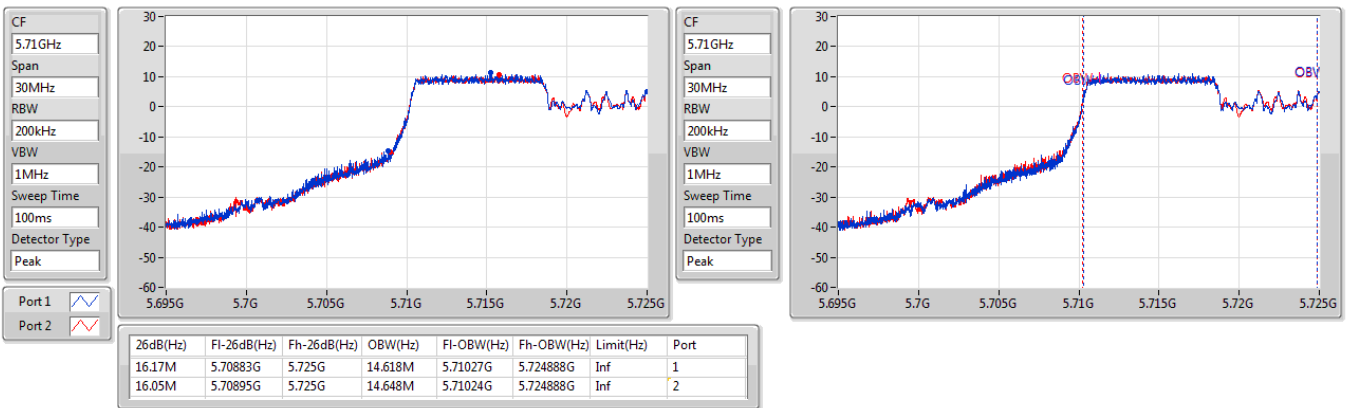
5700MHz



5.47-5.725GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

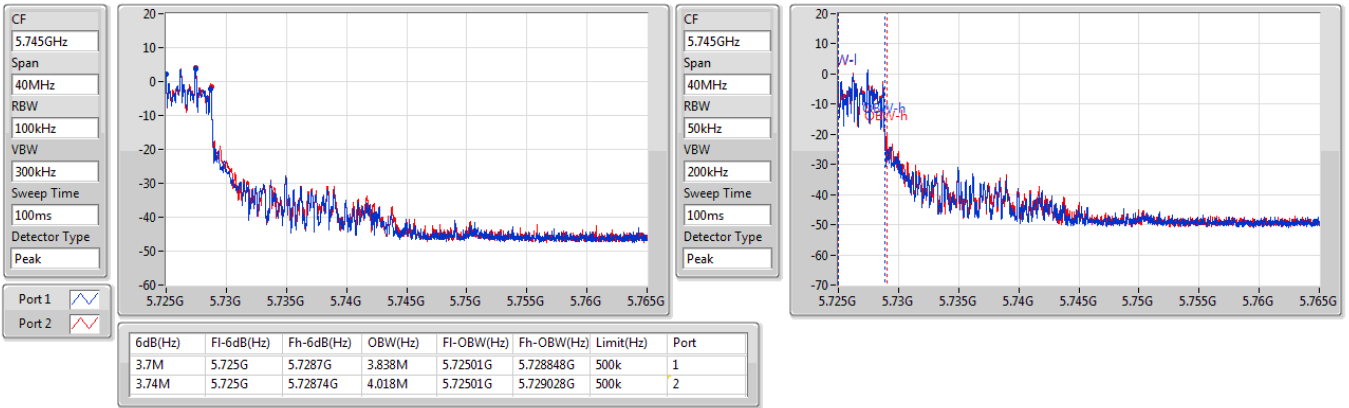




5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

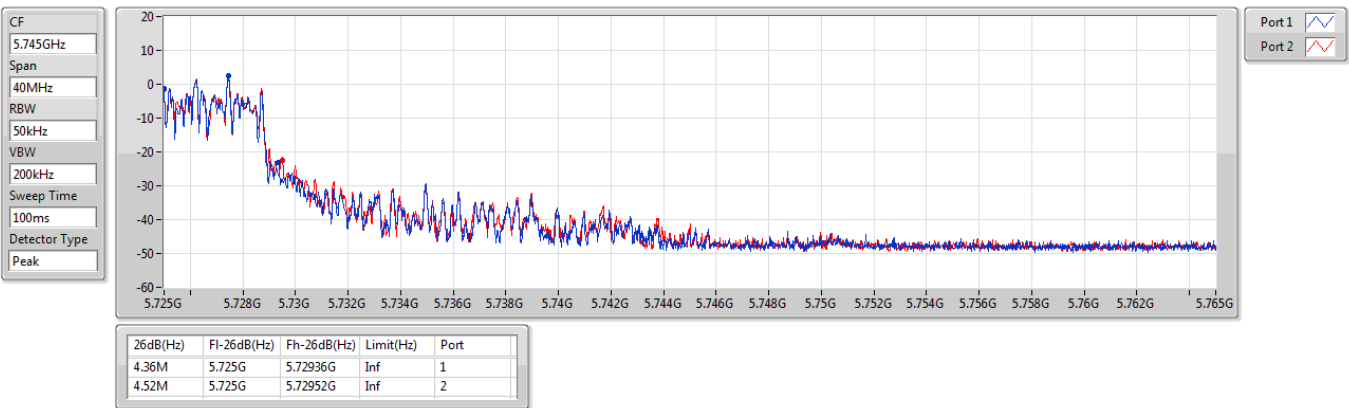
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

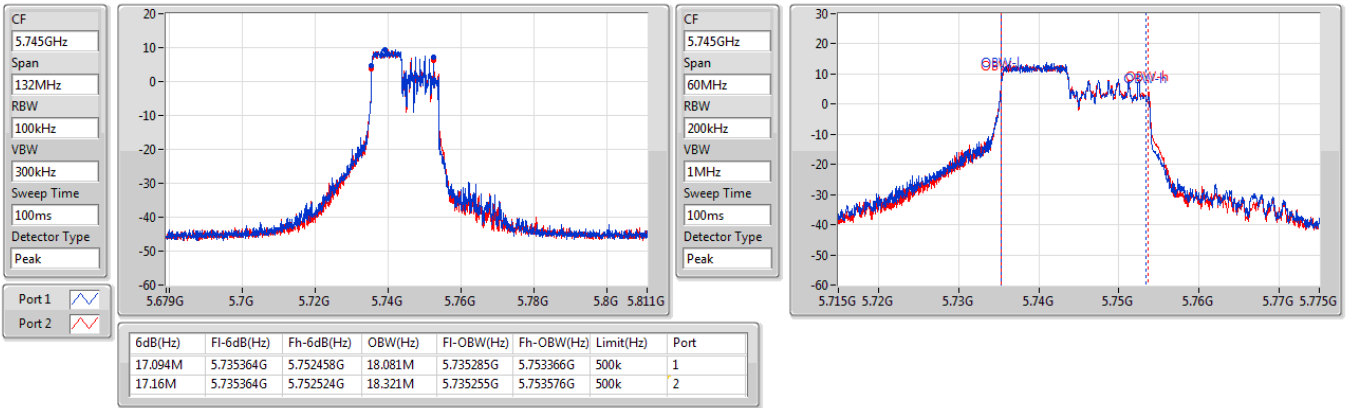




5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

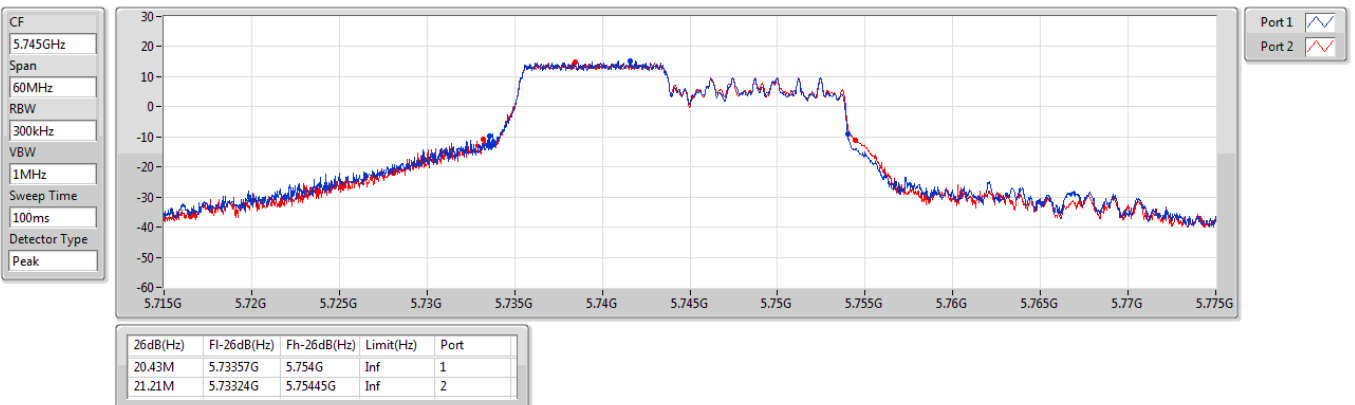
5745MHz



5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5745MHz

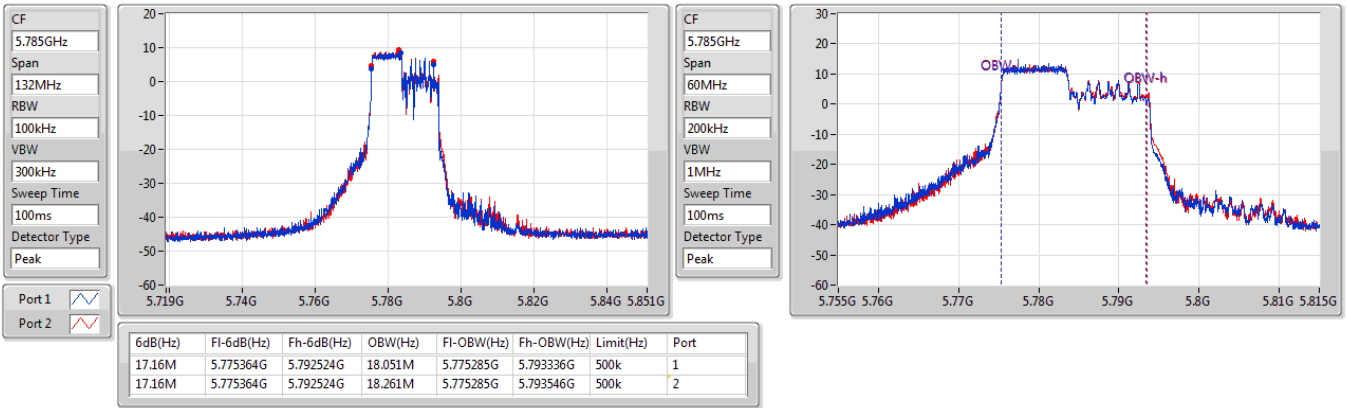




5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

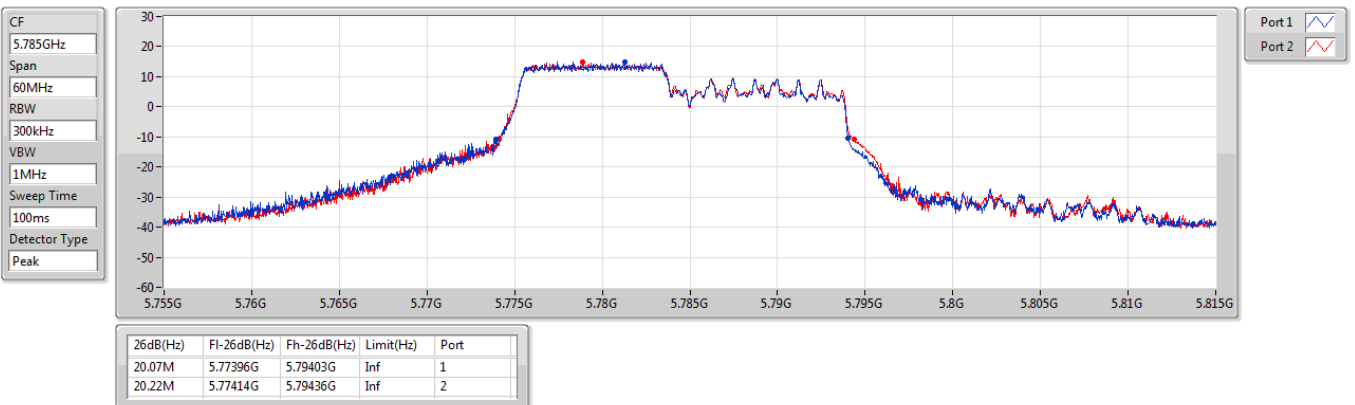
5785MHz



5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5785MHz

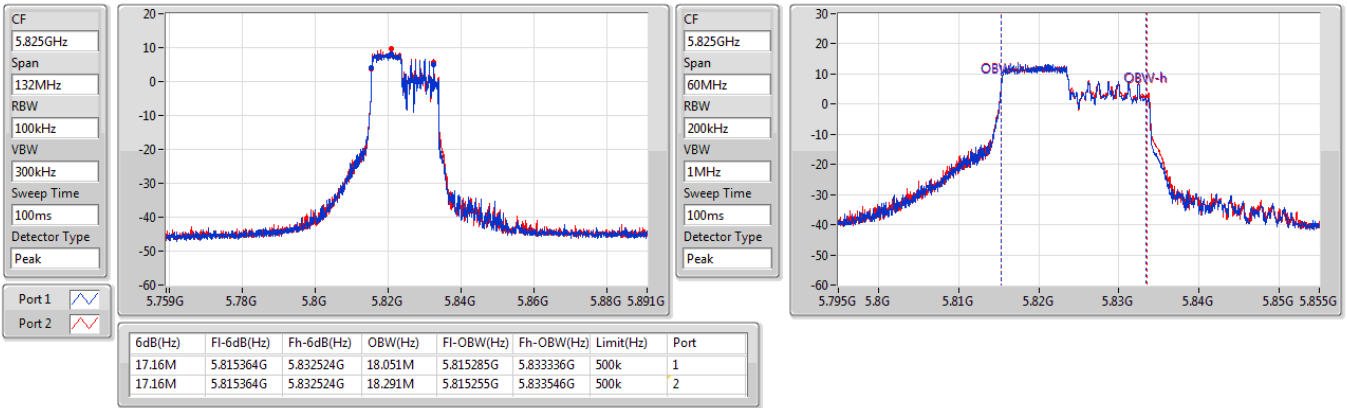




5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

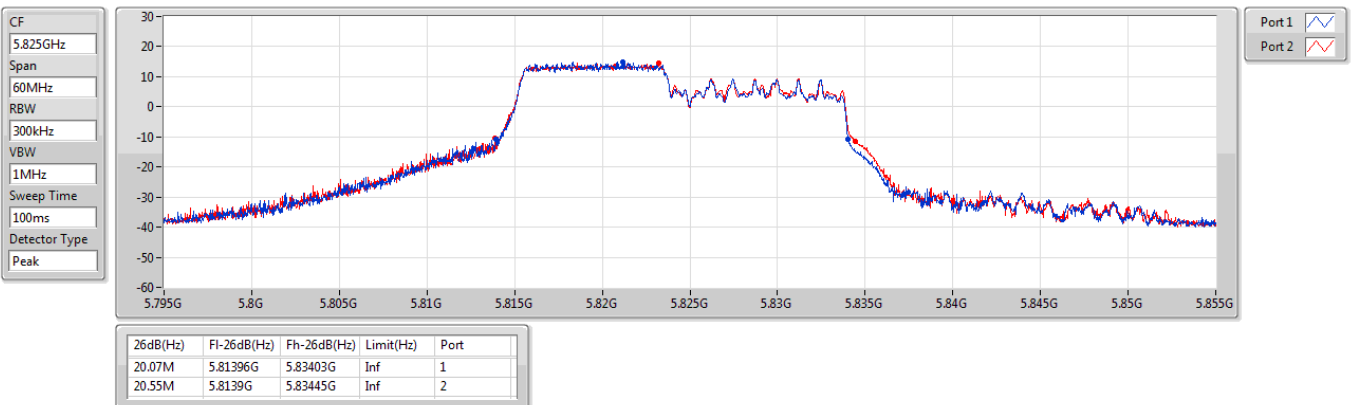
5825MHz



5.725-5.85GHz\_802.11ax HEW20\_RU106\_Index53\_20MHz\_Nss1,(MCS0)\_2TX

EBW

5825MHz

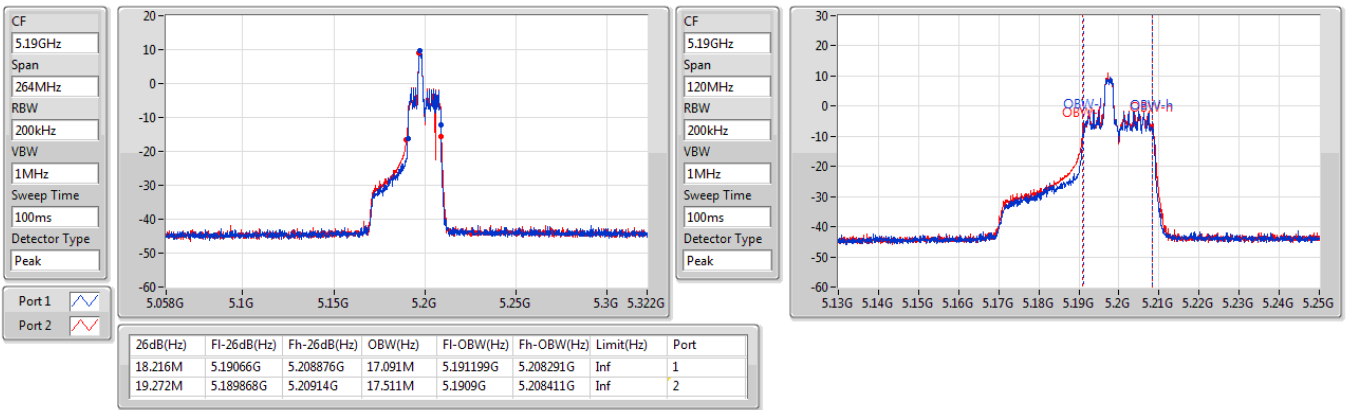




5.15-5.25GHz\_802.11ax\_HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

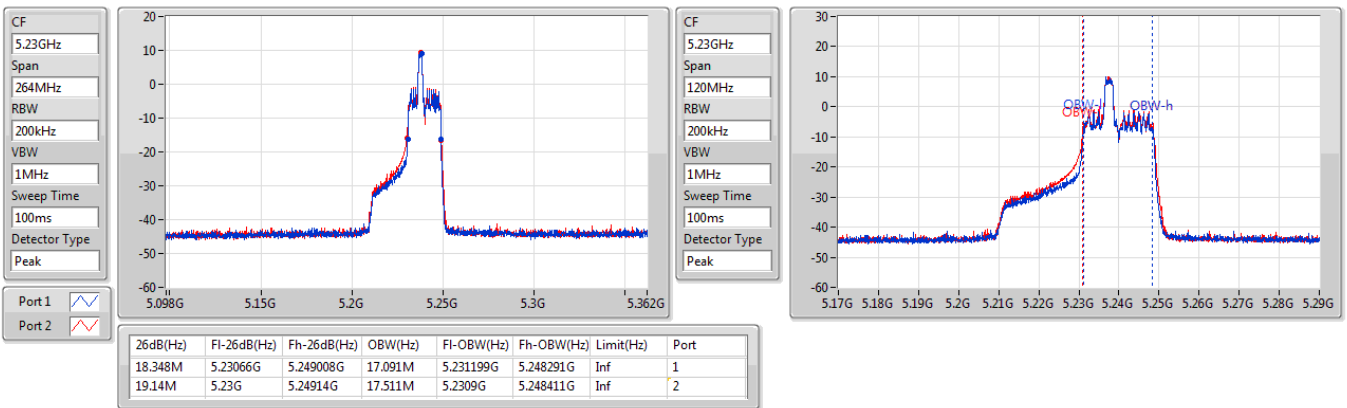
5190MHz



5.15-5.25GHz\_802.11ax\_HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5230MHz

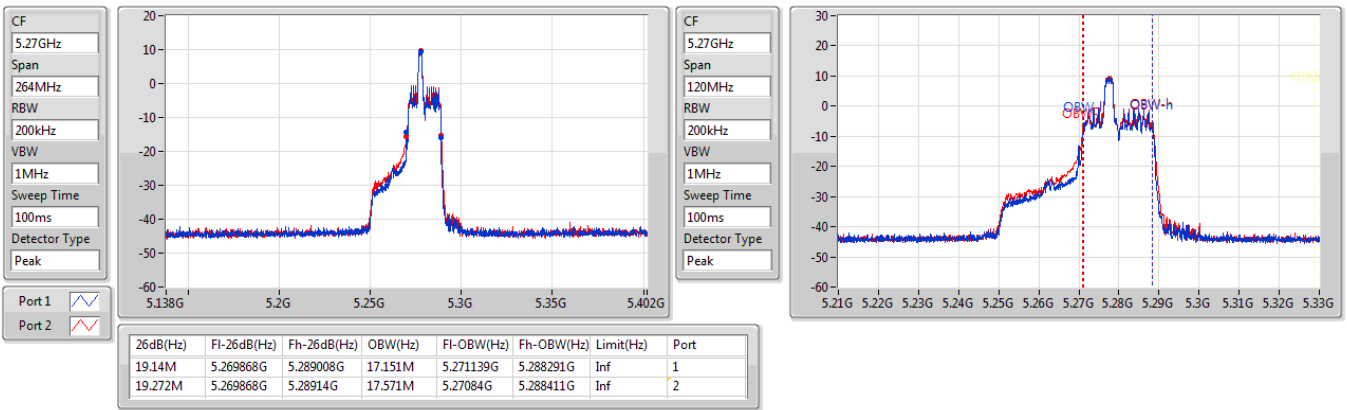




5.25-5.35GHz\_802.11ax\_HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

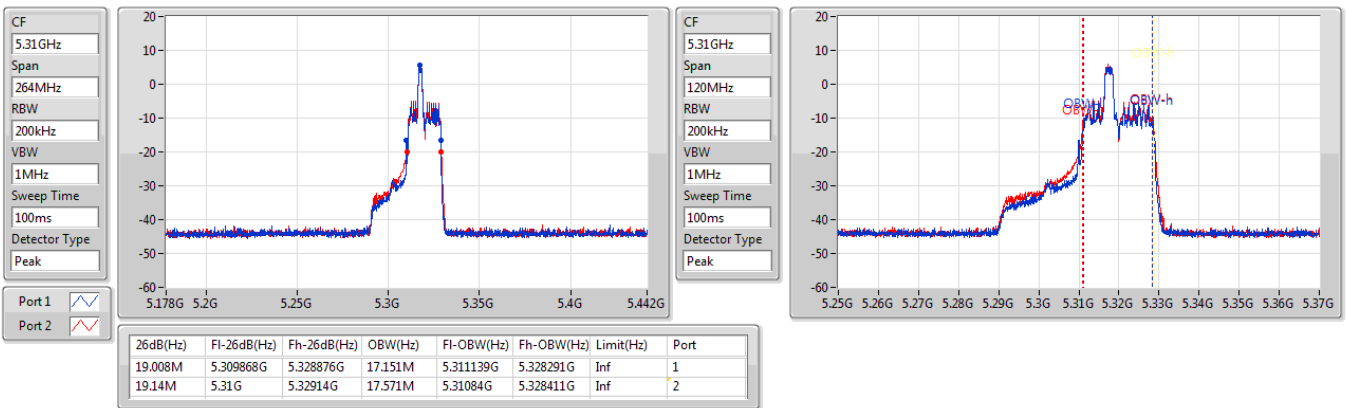
5270MHz



5.25-5.35GHz\_802.11ax\_HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5310MHz



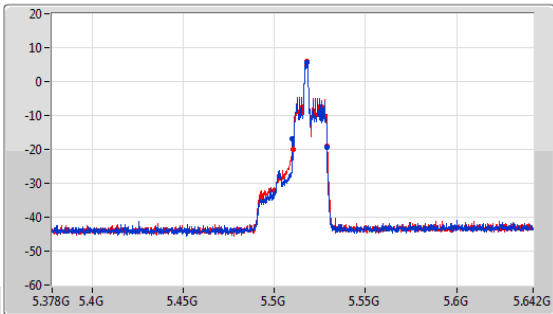


5.47-5.725GHz\_802.11ax\_HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

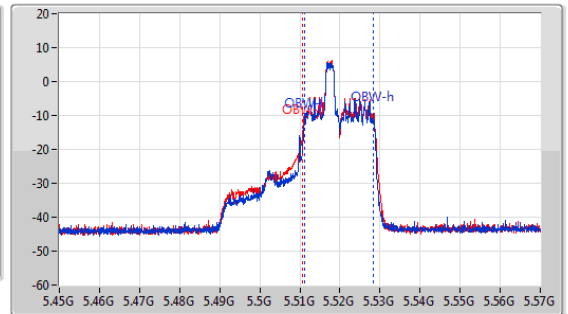
EBW

5510MHz

CF: 5.51GHz  
 Span: 264MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.51GHz  
 Span: 120MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



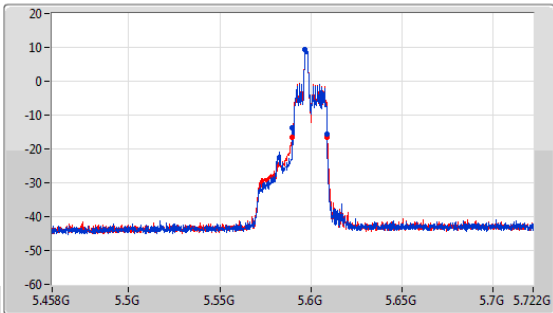
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.14M	5.509868G	5.529008G	17.211M	5.51079G	5.528291G	Inf	1
19.14M	5.51G	5.52914G	17.631M	5.51078G	5.528411G	Inf	2

5.47-5.725GHz\_802.11ax\_HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

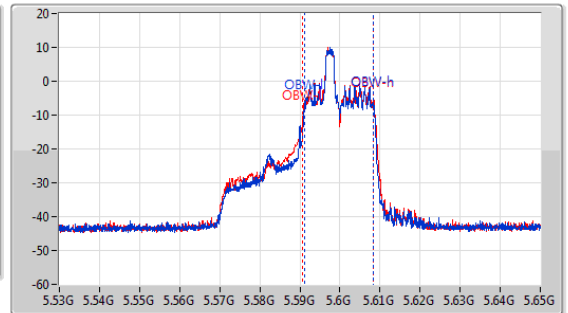
EBW

5590MHz

CF: 5.59GHz  
 Span: 264MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.59GHz  
 Span: 120MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.14M	5.589868G	5.609008G	17.151M	5.591139G	5.608291G	Inf	1
19.272M	5.589868G	5.60914G	17.631M	5.59078G	5.608411G	Inf	2

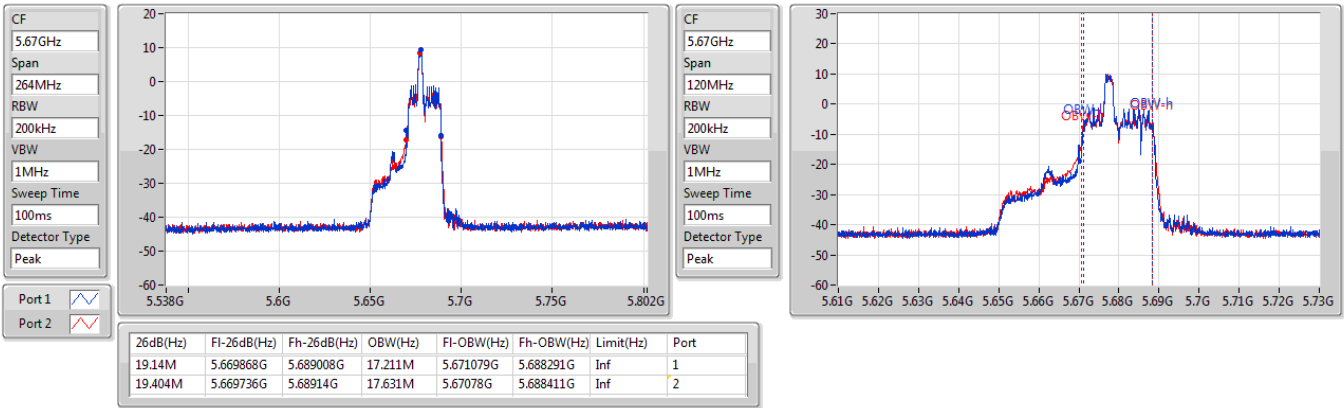




5.47-5.725GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

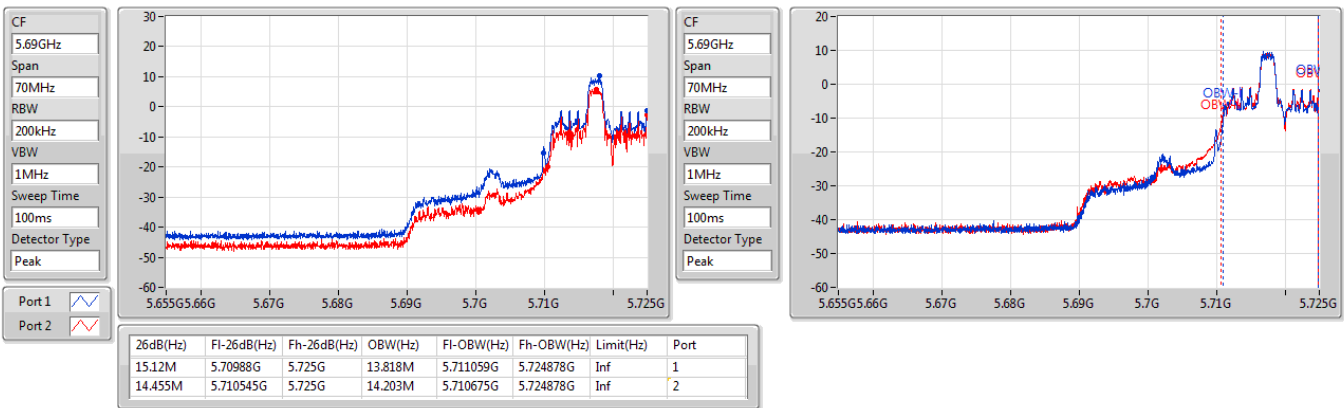
5670MHz



5.47-5.725GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

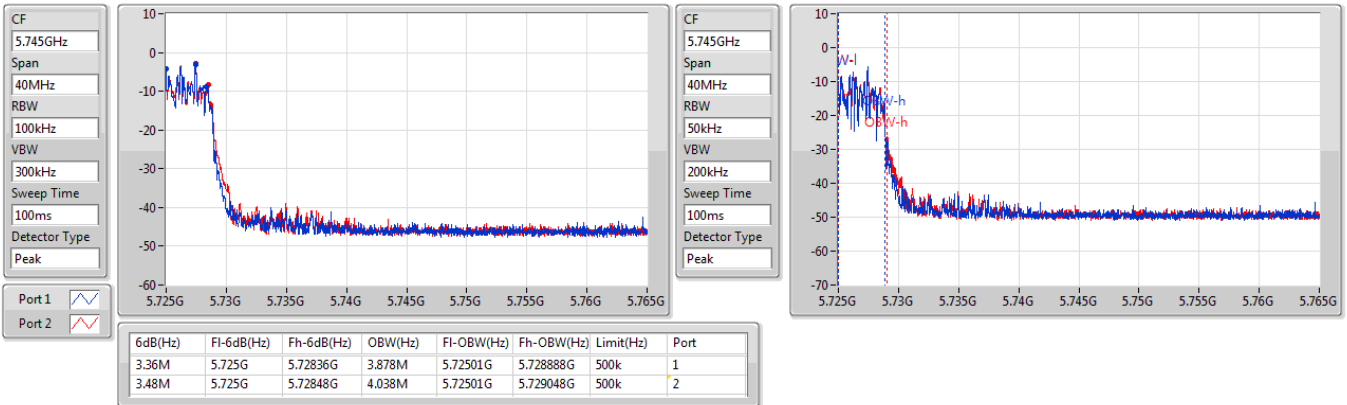




5.725-5.85GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

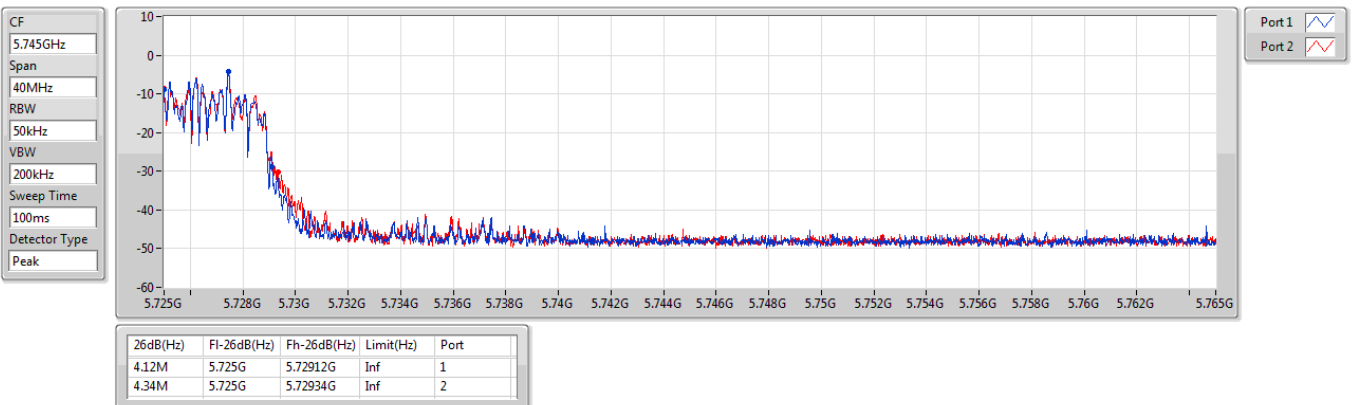
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

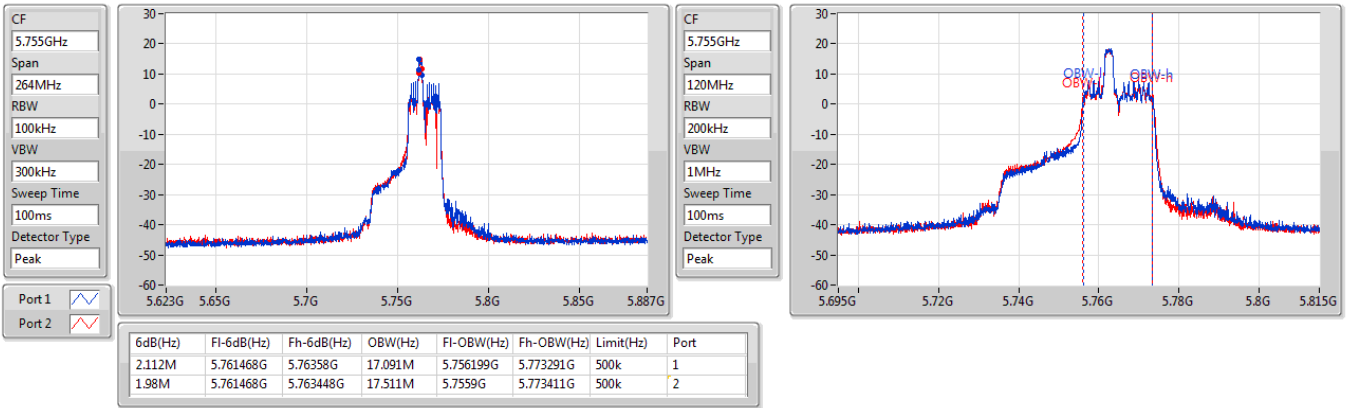




5.725-5.85GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

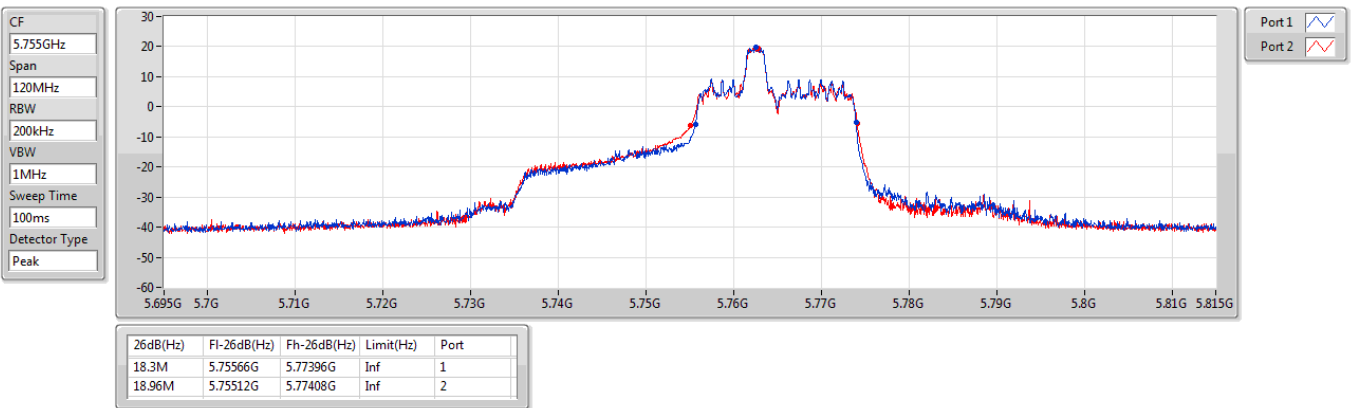
5755MHz



5.725-5.85GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5755MHz

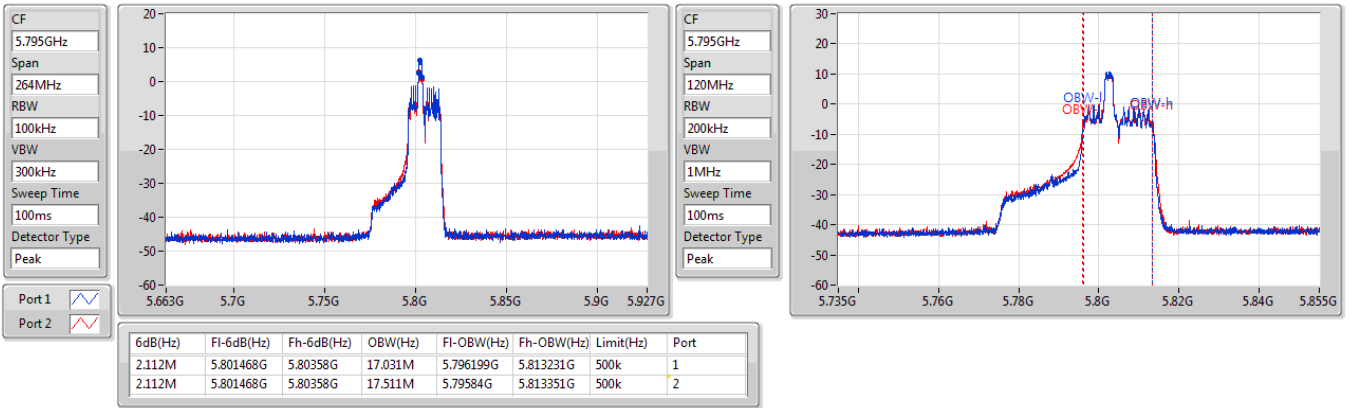




5.725-5.85GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

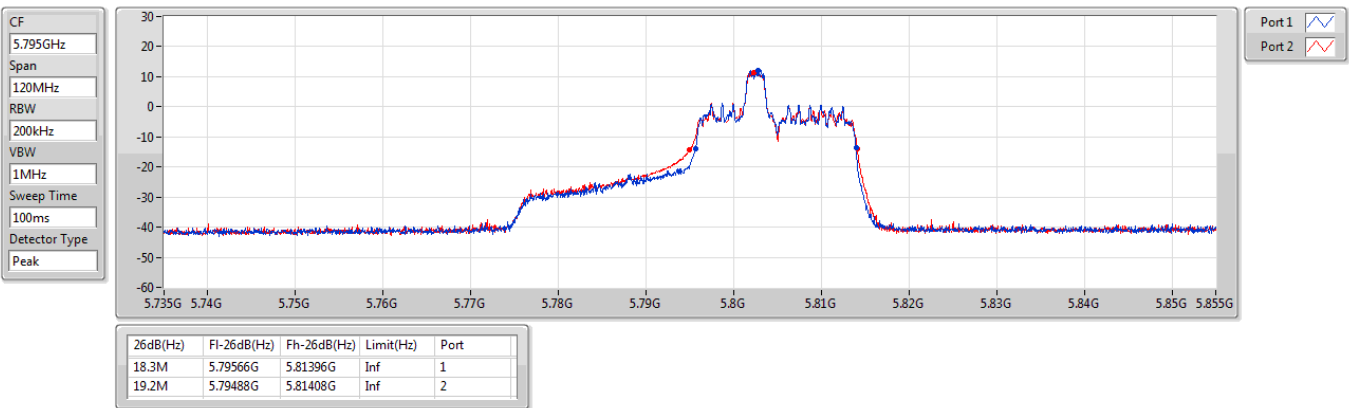
5795MHz



5.725-5.85GHz\_802.11ax HEW40\_RU26\_Index12\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5795MHz

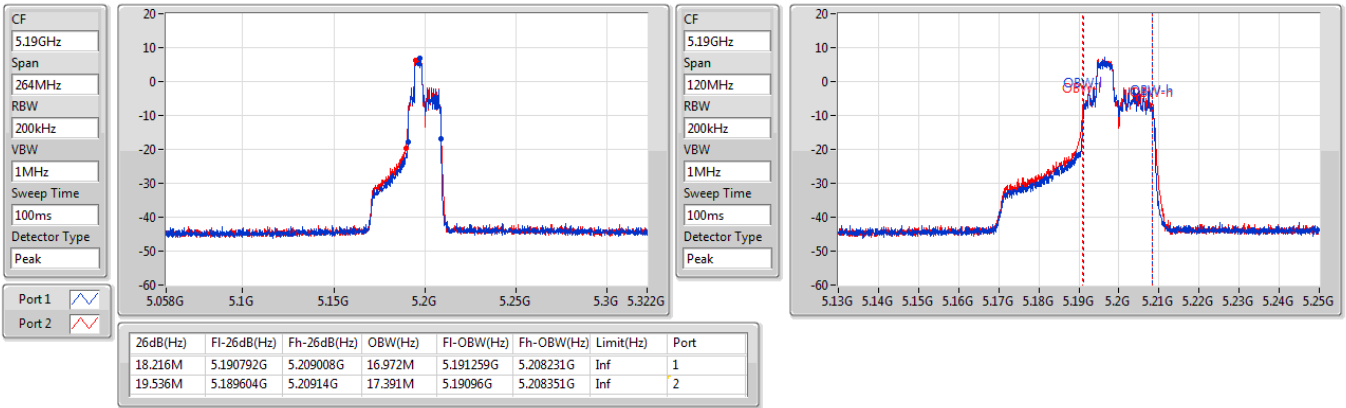




5.15-5.25GHz\_802.11ax\_HEW40\_RU52\_Index42\_40MHz\_Nss1,(MCS0)\_2TX

EBW

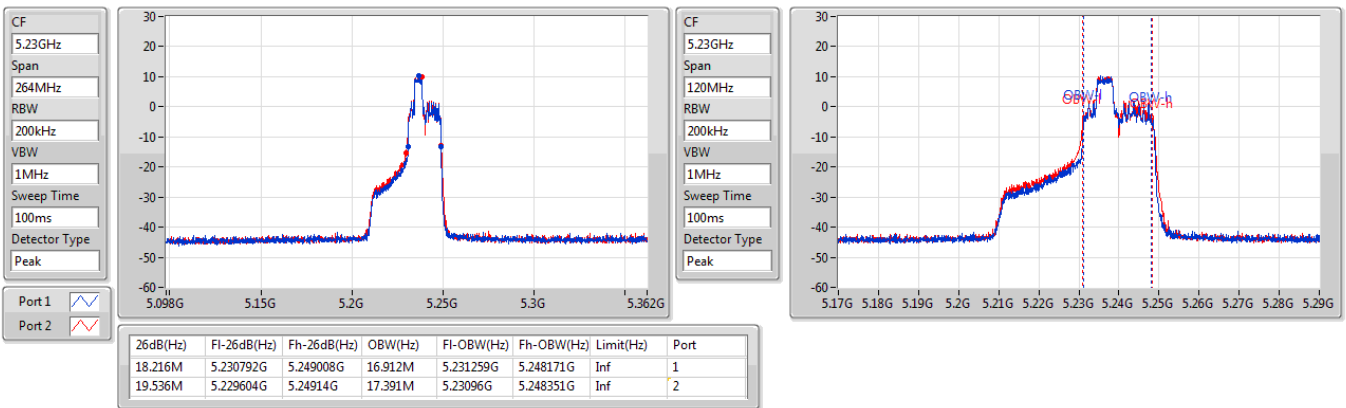
5190MHz



5.15-5.25GHz\_802.11ax\_HEW40\_RU52\_Index42\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5230MHz

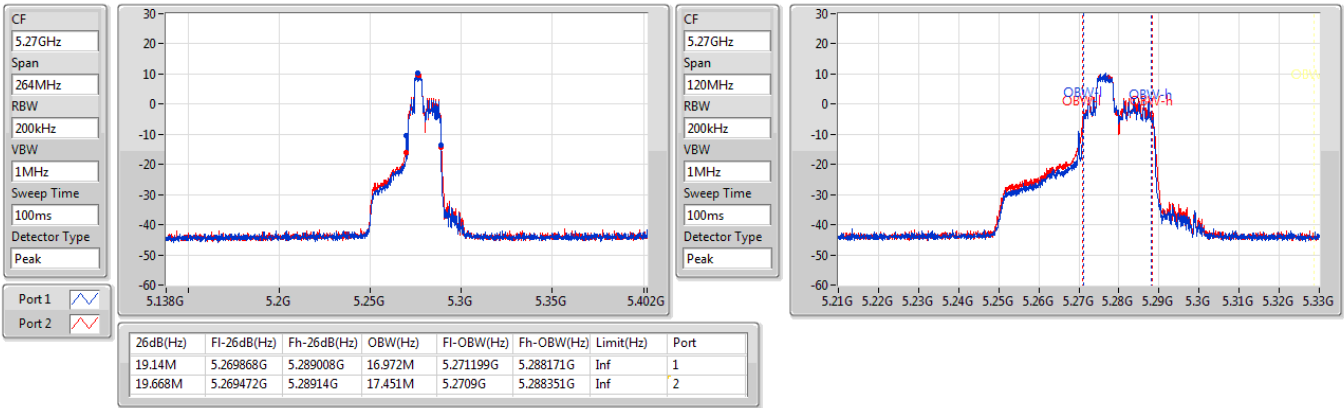




5.25-5.35GHz\_802.11ax\_HEW40\_RU52\_Index42\_40MHz\_Nss1,(MCS0)\_2TX

EBW

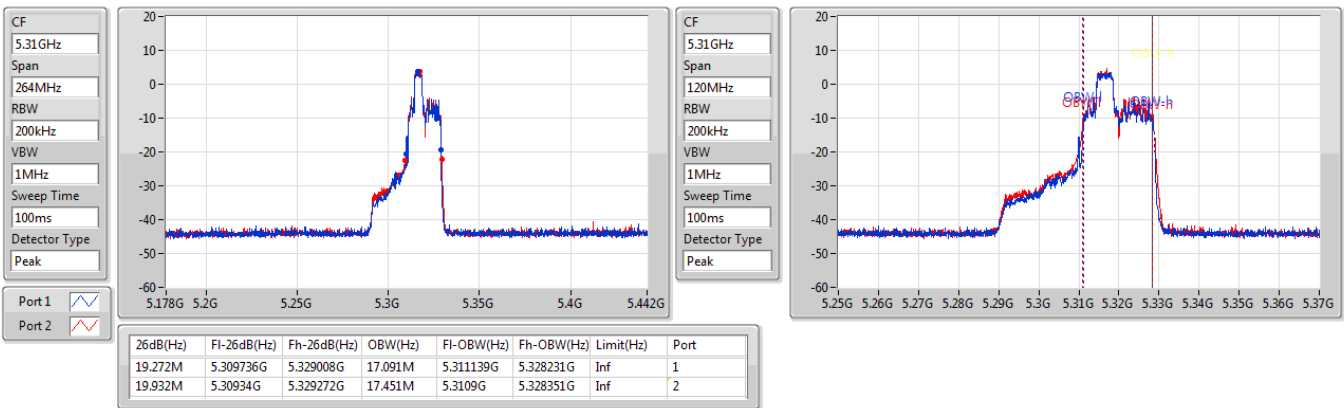
5270MHz



5.25-5.35GHz\_802.11ax\_HEW40\_RU52\_Index42\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5310MHz

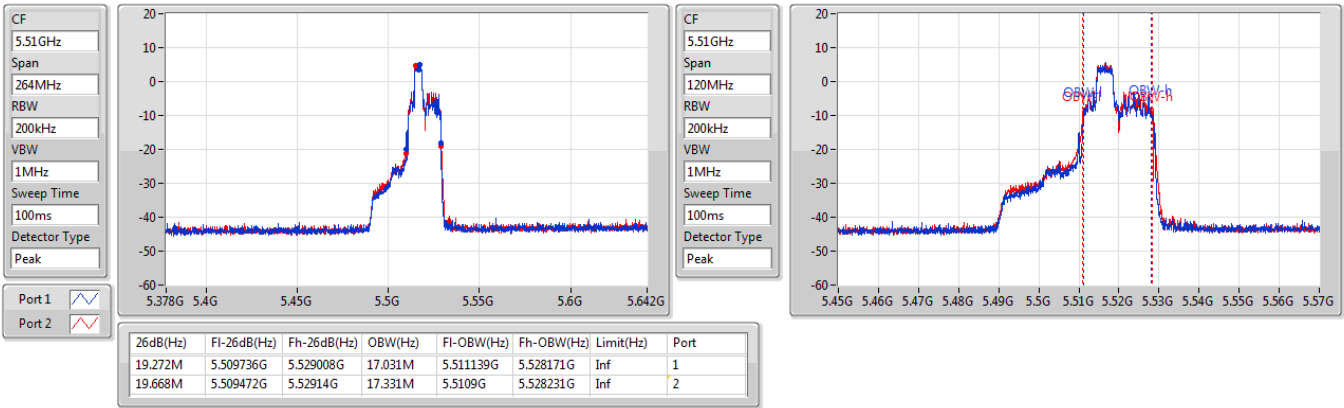




5.47-5.725GHz\_802.11ax HEW40\_RU52\_Index42\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5510MHz



5.47-5.725GHz\_802.11ax HEW40\_RU52\_Index42\_40MHz\_Nss1,(MCS0)\_2TX

EBW

5590MHz

