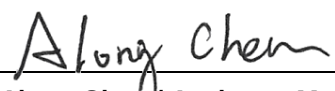


FCC Test Report

FCC ID : I8811AXAP2246E
Equipment : 802.11ax (WiFi 6E) Triple-Radio Unified Pro
Access Point
Model No. : WAX640S-6E
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
Equipment Class / Type : ☒ 6ID: Indoor access point
☐ 6PP: Subordinate device
☐ 6XD: Client device
Received Date : May 10, 2022
Tested Date : May 26 ~ Jul. 13, 2022

We, International Certification Corp., 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 may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

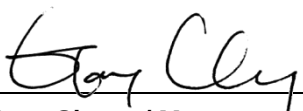

Gary Chang / Manager

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Appendix G. Contention Based Protocol		
Appendix H. AC Power Line Conducted Emissions		

Release Record

Report No.	Version	Description	Issued Date
FR251701AO	Rev. 01	Initial issue	Aug. 02, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power-Line Conducted Emissions	[dBuV]: 0.168MHz 51.77 (Margin -13.31dB) - QP	Pass
15.407(b)(5) 15.209	Unwanted Emission	[dBuV/m at 3m]: 7125.00MHz 67.52 (Margin -0.68dB) - AV	Pass
15.407(b)(6)	In-Band Emissions (Mask)	Meet the requirement of limit	Pass
15.407(a)(10)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)(5)	RF Output Power (e.i.r.p)	Max Power [dBm]: Non-beamforming mode 5.925-6.425MHz: 23.20 6.425-6.525MHz: 23.02 6.525-6.875MHz: 23.47 6.875-7.125MHz: 23.09 Beamforming mode 5.925-6.425MHz: 17.18 6.425-6.525MHz: 17.00 6.525-6.875MHz: 17.45 6.875-7.125MHz: 17.07	Pass
15.407(a)(5)	Power Spectral Density (e.i.r.p)	Meet the requirement of limit	Pass
15.407(d)(6)	Contention Based Protocol	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5925 ~ 7125	ax (HE20)	5935 ~ 7115	1 ~ 233 [60]	4	MCS 0-11
5925 ~ 7125	ax (HE40)	5965 ~ 7085	3 ~ 227 [29]	4	MCS 0-11
5925 ~ 7125	ax (HE80)	5985 ~ 7025	7 ~ 215 [14]	4	MCS 0-11
5925 ~ 7125	ax (HE160)	6025 ~ 6985	15 ~ 207 [7]	4	MCS 0-11
Note 1: OFDM- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					
Note 2: 802.11ax supports beamforming function.					

1.1.2 Antenna Details

Ant. No.	Brand / Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				Remark
				5925 ~ 6425	6425 ~ 6525	6525 ~ 6875	6875 ~ 7125	
1	DNI / P1	PIFA	UFL	3.01	4.21	3.55	4.02	Mounted 1: Antenna 1 / 2 / 3 / 4 Mounted 2: Antenna 1 / 3 / 5 / 6
2	DNI / P2	PIFA	UFL	3.38	2.56	2.74	3.95	
3	DNI / P5	PIFA	UFL	4.07	3.30	2.51	3.12	
4	DNI / P7	PIFA	UFL	2.54	3.14	1.52	2.04	
5	DNI / P8	PIFA	UFL	3.44	3.27	2.35	3.62	
6	DNI / P10	PIFA	UFL	2.18	1.78	1.48	1.87	

1.1.3 Power Supply Type of Equipment under Test (EUT)

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

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

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11a ax HE20							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2	5935	57	6235	117	6535	177	6835
1	5955	61	6255	121	6555	181	6855
5	5975	65	6275	125	6575	185	6875
9	5995	69	6295	129	6595	189	6895
13	6015	73	6315	133	6615	193	6915
17	6035	77	6335	137	6635	197	6935
21	6055	81	6355	141	6655	201	6955
25	6075	85	6375	145	6675	205	6975
29	6095	89	6395	149	6695	209	6995
33	6115	93	6415	153	6715	213	7015
37	6135	97	6435	157	6735	217	7035
41	6155	101	6455	161	6755	221	7055
45	6175	105	6475	165	6775	225	7075
49	6195	109	6495	169	6795	229	7095
53	6215	113	6515	173	6815	233	7115

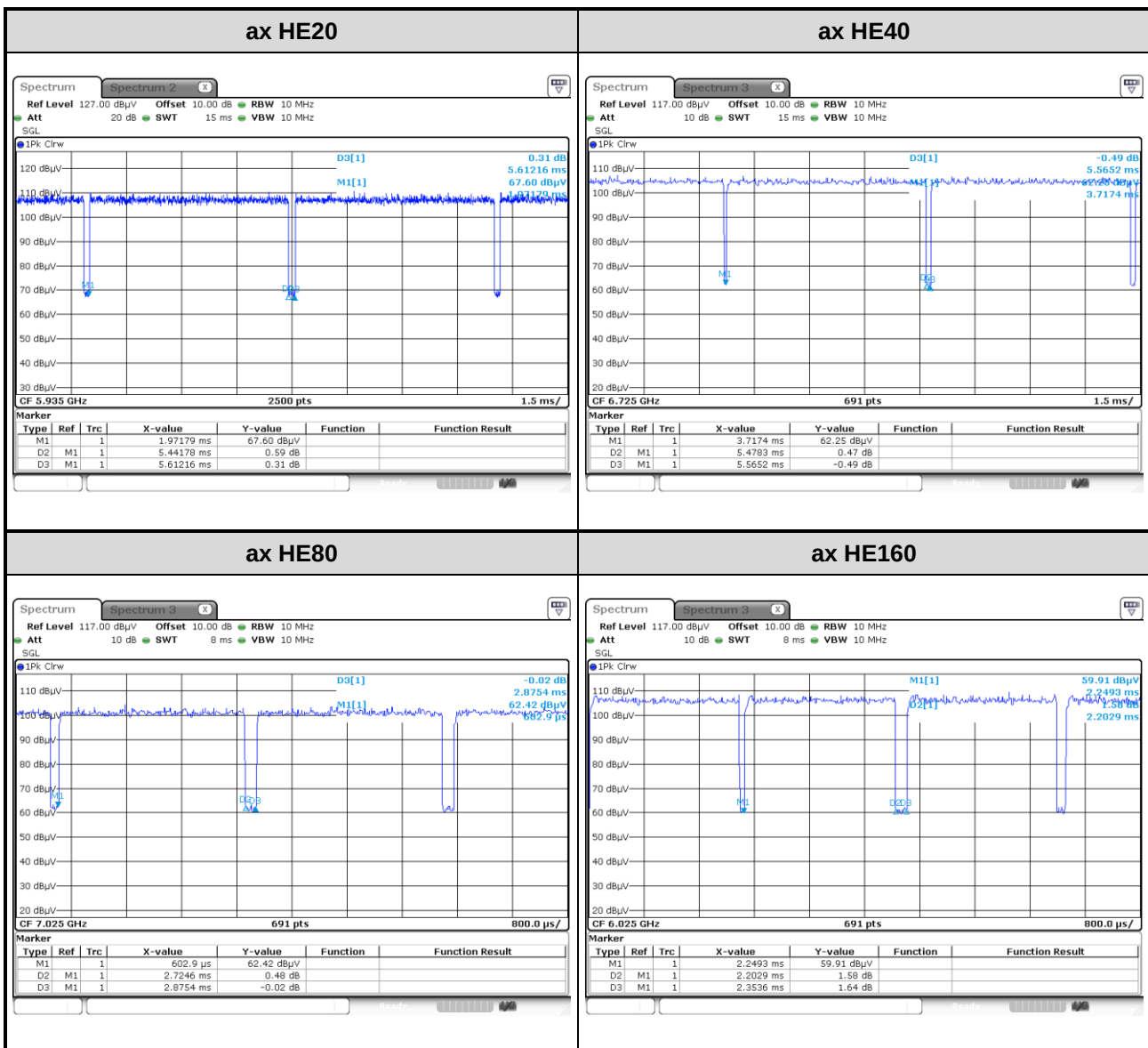
802.11a ax HE40							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	5965	67	6285	131	6605	195	6925
11	6005	75	6325	139	6645	203	6965
19	6045	83	6365	147	6685	211	7005
27	6085	91	6405	155	6725	219	7045
35	6125	99	6445	163	6765	227	7085
43	6165	107	6485	171	6805	---	---
51	6205	115	6525	179	6845	---	---
59	6245	123	6565	187	6885	---	---

802.11a ax HE80							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	71	6305	135	6625	199	6945
23	6065	87	6385	151	6705	215	7025
39	6145	103	6465	167	6785	---	---
55	6225	119	6545	183	6865	---	---

802.11a ax HE160							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
15	6025	79	6345	143	6665	207	6985
47	6185	111	6505	175	6825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QPSR, Version: 5.0-00200		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ax HE20	96.96%	0.13
	ax HE40	98.44%	0.07
	ax HE80	94.76%	0.23
	ax HE160	93.60%	0.29



1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
HE20	5935	3
HE20	5955	7.5
HE20	6175	8
HE20	6415	8.5
HE20	6435	8
HE20	6475	8
HE20	6515	8.5
HE20	6535	8.5
HE20	6715	9
HE20	6855	9
HE20	6875	8
HE20	6895	8
HE20	7015	8.5
HE20	7095	8.5
HE20	7115	3
HE40	5965	11
HE40	6165	11.5
HE40	6405	12
HE40	6445	11.5
HE40	6485	11
HE40	6525	11.5
HE40	6565	12.5
HE40	6725	12
HE40	6845	12
HE40	6885	11
HE40	6925	11
HE40	7005	11.5
HE40	7085	11.5

Modulation Mode	Test Frequency (MHz)	Power Index
HE80	5985	14
HE80	6145	14
HE80	6385	14.5
HE80	6465	14
HE80	6545	14
HE80	6625	15
HE80	6705	15
HE80	6785	15
HE80	6865	14
HE80	6945	14
HE80	7025	14.5
HE160	6025	17
HE160	6185	16.5
HE160	6345	17.5
HE160	6505	17
HE160	6665	18
HE160	6825	17
HE160	6985	16.5

1.2 Local Support Equipment List

Adapter mode

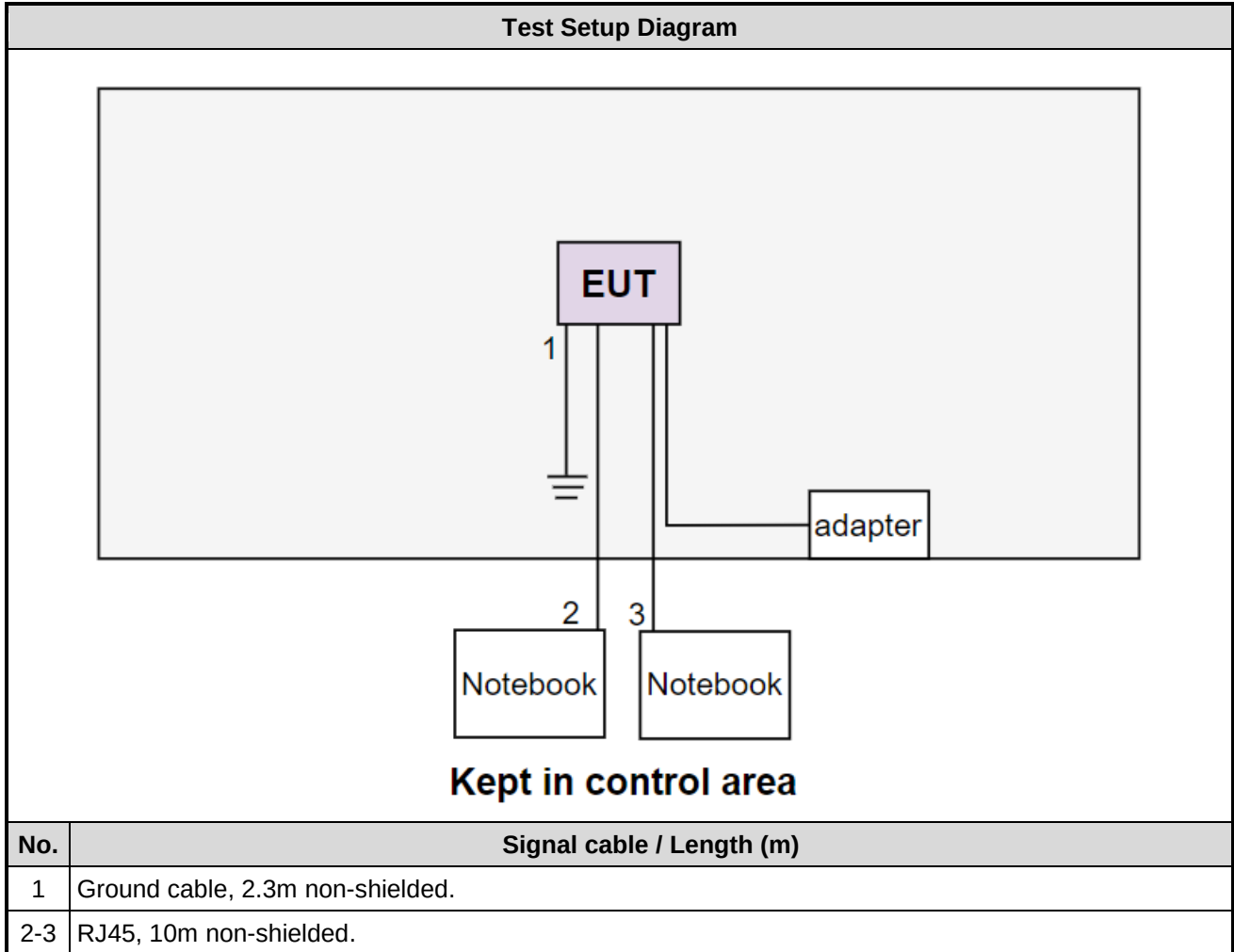
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Notebook	DELL	Latitude 5400	DoC	---
3	Adapter	APD	WA-30P12R	---	Remarks: I/P: 100-240Vac, 50-60Hz, 0.9A Max O/P: 12Vdc, 2.5A The plug can be replaced. (Provided by applicant.)

POE mode

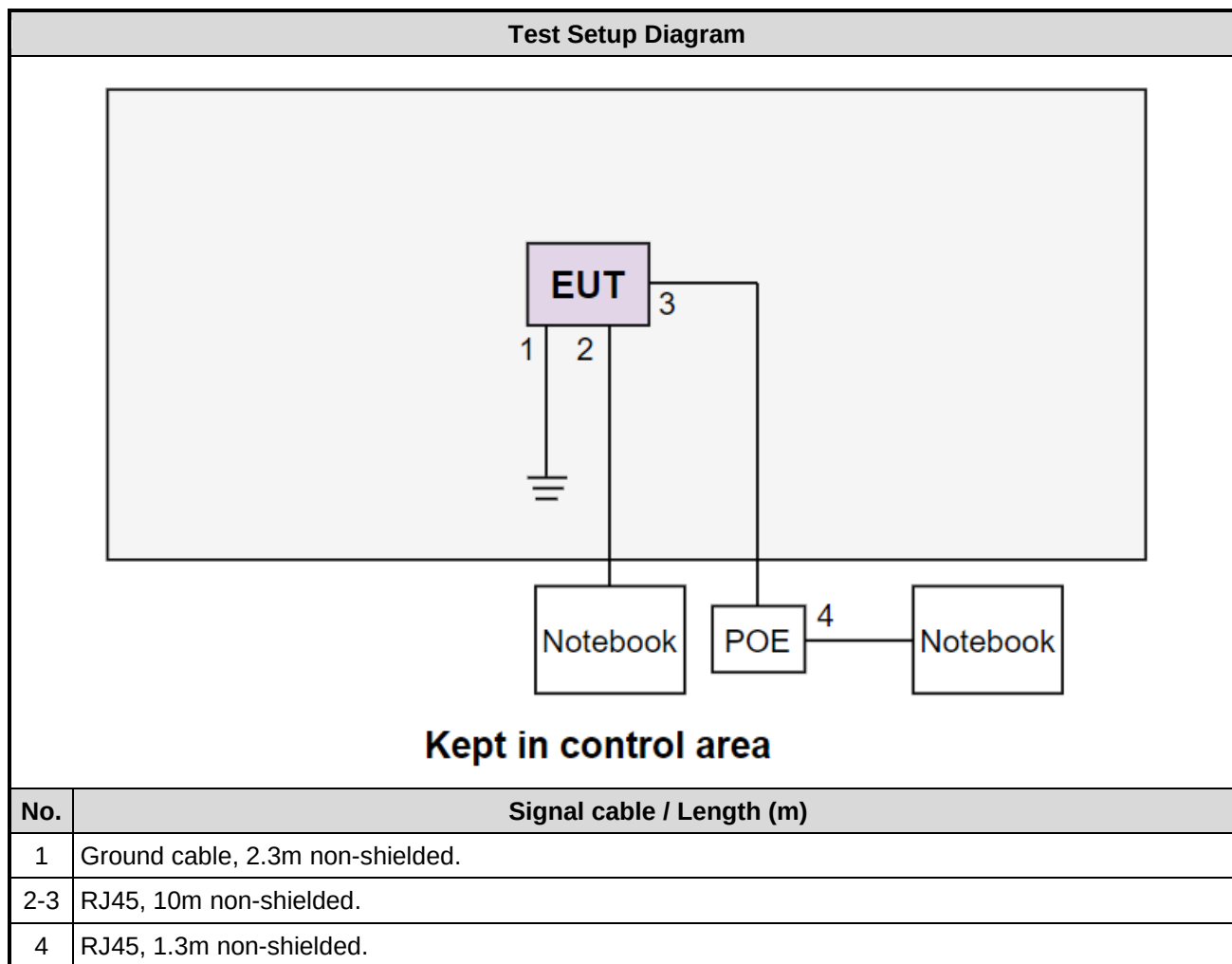
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Notebook	DELL	Latitude 5400	DoC	---
3	POE	ZYXEL	PoE12-60W	---	Remarks: I/P: 100-240Vac, 50-60Hz, 2.0A O/P: 56Vdc, 1.161A (Provided by applicant.)

1.3 Test Setup Chart

Adapter mode



POE mode



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jun. 16, 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 26 ~ Jun. 13, 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. 06 ~ Jun. 24, 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
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.20	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Contention Based Protocol				
Test Site	(TH01-WS)				
Tested Date	Jun. 30, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
AWGN Signal Generator	R&S	SMW200A	109619	Jul. 21, 2021	Jul. 20, 2022
Splitter	woken	0120A02201801O	DOM2AEW1A23	Oct. 15, 2021	Oct. 14, 2022
Directional Coupler	KRYTAR	180120	146890	Oct. 15, 2021	Oct. 14, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX_104	MY15686/4	Oct. 12, 2021	Oct. 11, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX_104	296081/4	Oct. 14, 2021	Oct. 13, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX_104	329023/4	Oct. 14, 2021	Oct. 13, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX_104	329021/4	Oct. 14, 2021	Oct. 13, 2022
Attenuator	woken	PE7013-10	10-1	Oct. 15, 2021	Oct. 14, 2022
Attenuator	woken	PE7013-20	20-1	Oct. 15, 2021	Oct. 14, 2022
Measurement Software	NA	NA	NA	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 987594 D02 U-NII 6GHz EMC Measurement v01r01
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 412172 D01 Determining ERP and EIRP v01r01
 FCC KDB 662911 D01 Multiple Transmitter Output 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	±1x10 ⁻⁹
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.96 dB
Radiated emission > 1GHz	±4.51 dB
Time	±0.1%
Temperature	±0.4 °C

2 Test Configuration

Test Laboratory	International Certification Corp.
Test Site	CO01-WS, TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.
Test Site	03CH03-WS
Address of Test Site	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.1 Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emissions	ax HE160	6665	MCS 0	1, 2
Unwanted Emissions ≤1GHz	ax HE160	6665	MCS 0	1, 2
Unwanted Emissions >1GHz RF Output Power Emission Bandwidth Peak Power Spectral Density	ax HE20	5935 / 5955 / 6175 / 6415 / 6435 6475 / 6515 / 6535 / 6715 / 6855 6875 / 6895 / 7015 / 7095 / 7115	MCS 0	1
	ax HE40	5965 / 6165 / 6405 / 6445 / 6485 6525 / 6565 / 6725 / 6845 / 6885 6925 / 7005 / 7085	MCS 0	
	ax HE80	5985 / 6145 / 6385 / 6465 / 6545 6625 / 6705 / 6785 / 6865 / 6945 7025	MCS 0	
	ax HE160	6025 / 6185 / 6345 / 6505 / 6665 6825 / 6985	MCS 0	
Contention Based Protocol	ax HE20	6195 / 6475 / 6695 /6995	MCS 0	---
	ax HE160	6185 / 6505 / 6665 / 6985	MCS 0	
Frequency Stability	Un-modulation	6475 / 7015	---	1
Beamforming mode				
RF Output Power	ax HE20	5935 / 5955 / 6175 / 6415 / 6435 6475 / 6515 / 6535 / 6715 / 6855 6875 /6895 / 7015 / 7095 / 7115	MCS 0	1, 2
	ax HE40	5965 / 6165 / 6405 / 6445 / 6485 6525 / 6565 / 6725 / 6845 / 6885 6925 / 7005 / 7085	MCS 0	
	ax HE80	5985 / 6145 / 6385 / 6465 / 6545 6625 / 6705 / 6785 / 6865 /6945 7025	MCS 0	
	ax HE160	6025 / 6185 / 6345 / 6505 / 6665 6825 / 6985	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

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

3.1.2 Test Procedures

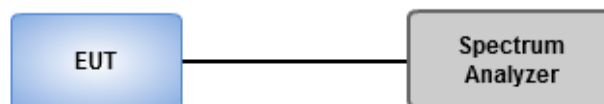
26dB Bandwidth

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.

3.1.3 Test Setup



3.1.4 Test Result

Ambient Condition	24~25°C / 61~63%	Tested By	Roger Lu
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Refer to Appendix A.

3.2 RF Output Power

3.2.1 Limit

Frequency Band	Operating Mode	Maximum EIRP Limit
5925 ~ 7125 MHz	☒ Indoor access point	30 dBm
	☐ Subordinate device	30 dBm
	☐ Client devices	24 dBm

3.2.2 Test Procedures

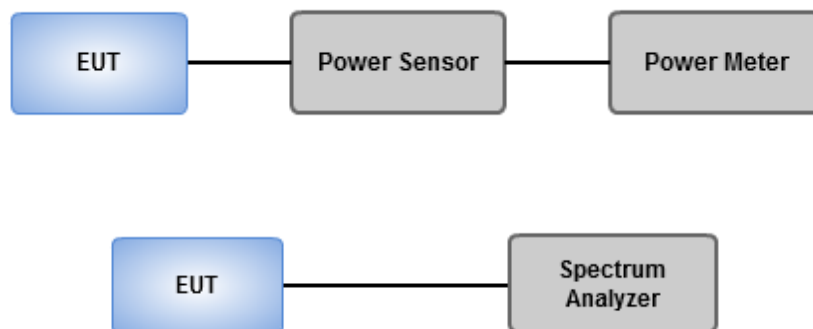
Method PM-G (Measurement using a gated RF average power meter)

1. 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.
2. $EIRP = \text{Measured conducted power} + \text{Antenna gain}$

Spectrum analyzer (For channel that extends across the 6.525 / 6.875 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 $10 \log(1/X, X:\text{duty cycle})$ if duty cycle is <98%.
5. $EIRP = \text{Measured conducted power} + \text{Antenna gain}$

3.2.3 Test Setup



3.2.4 Test Result

Ambient Condition	24~25°C / 61~63%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Peak Power Spectral Density

3.3.1 Limit

Frequency Band	Operating Mode	Limit
5925 ~ 7125 MHz	☒ Indoor access point	EIRP: 5 dBm / 1 MHz
	☐ Subordinate device	EIRP: 5 dBm / 1 MHz
	☐ Client devices	EIRP: -1 dBm / 1 MHz

3.3.2 Test Procedures

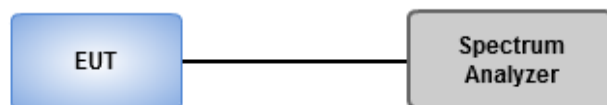
Duty cycle $\geq$ 98 %

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.
4. EIRP PSD = Measured conducted power density + Antenna gain

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (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.
6. EIRP PSD = Measured conducted power density + Antenna gain

3.3.3 Test Setup



3.3.4 Test Result

Ambient Condition	24~25°C / 61~63%	Tested By	Roger Lu
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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	PK Limit	AV Limit
5.925 – 7.125 GHz	e.i.r.p. -7 dBm [88.2 dBuV/m@3m]	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

3.4.2 Test Procedures

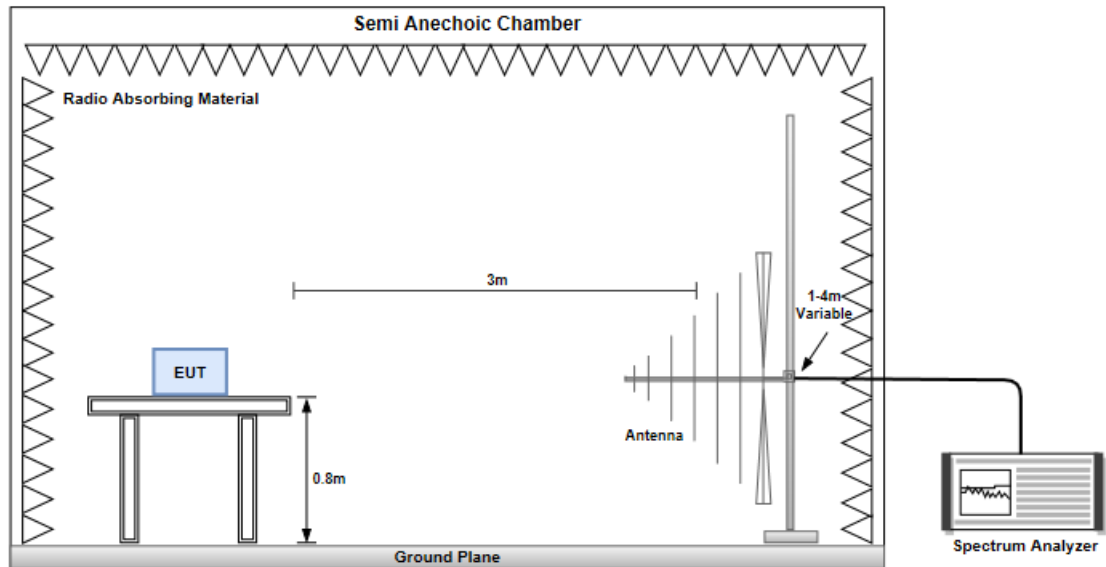
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

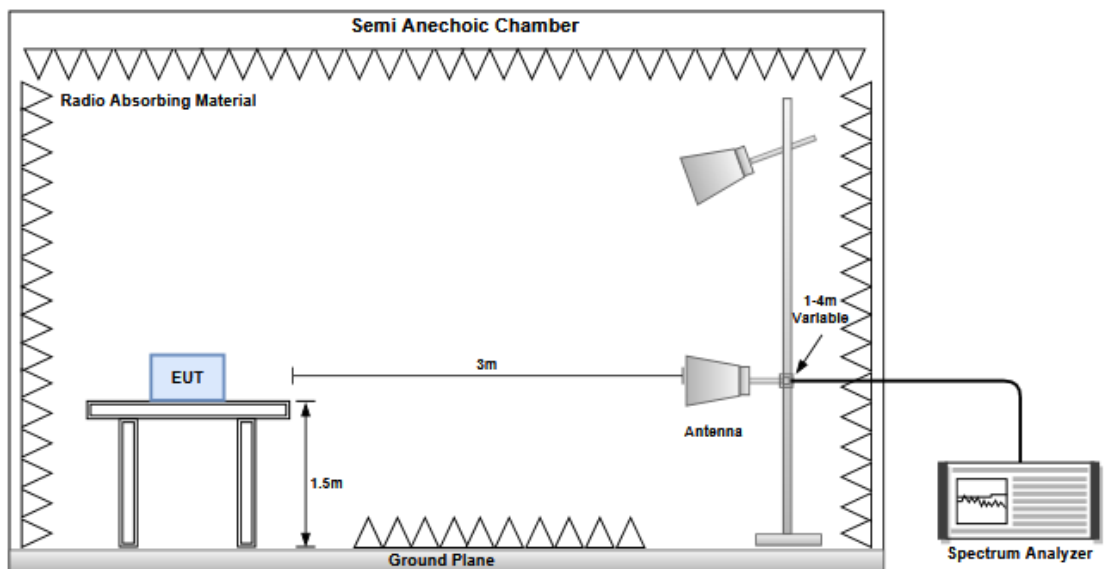
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



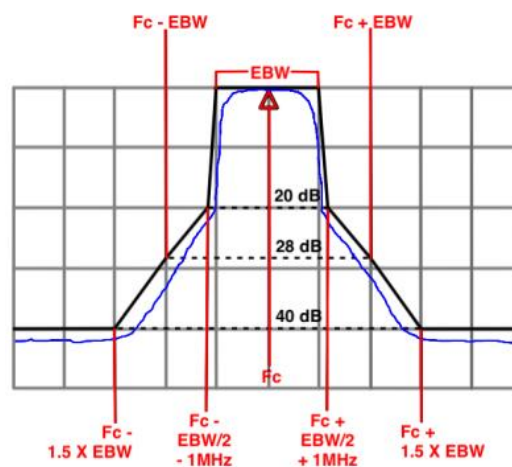
3.4.4 Test Results

Refer to Appendix D.

3.5 In-Band Emissions

3.5.1 Limit

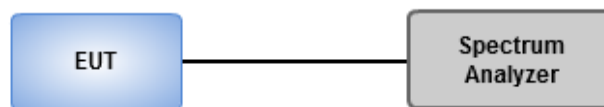
Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.



3.5.2 Test Procedures

1. Connect output of the antenna port to a spectrum analyzer
2. Set the reference level of the measuring equipment
3. Measure the 26 dB EBW
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	24~25°C / 61~63%	Tested By	Roger Lu
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Refer to Appendix E.

3.6 Frequency Stability

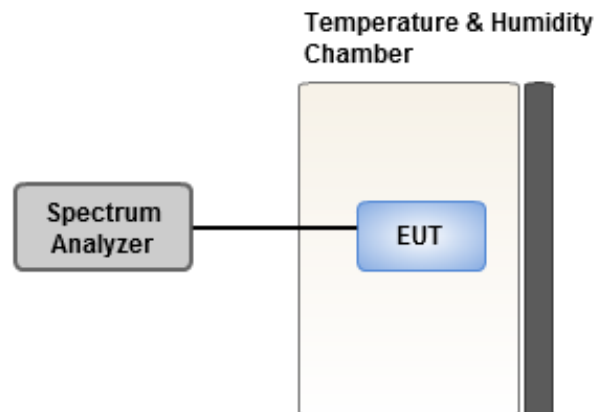
3.6.1 Limit of Frequency Stability

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.

3.6.2 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.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	24~25°C / 61~63%	Tested By	Roger Lu
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Refer to Appendix F.

3.7 Contention Based Protocol

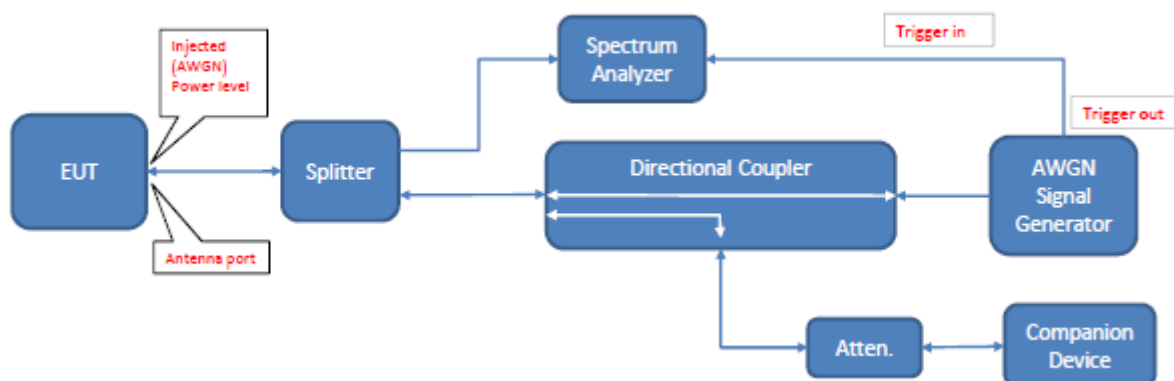
3.7.1 Limit

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty

3.7.2 Test Procedure

1. Configure the EUT to transmit with a constant duty cycle
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

3.7.3 Test Setup



3.7.4 Test Result

Ambient Condition	24~25°C / 61~63%	Tested By	Roger Lu
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Refer to Appendix G.

3.8 AC Power Line Conducted Emissions

3.8.1 Limit of AC Power Line Conducted Emissions

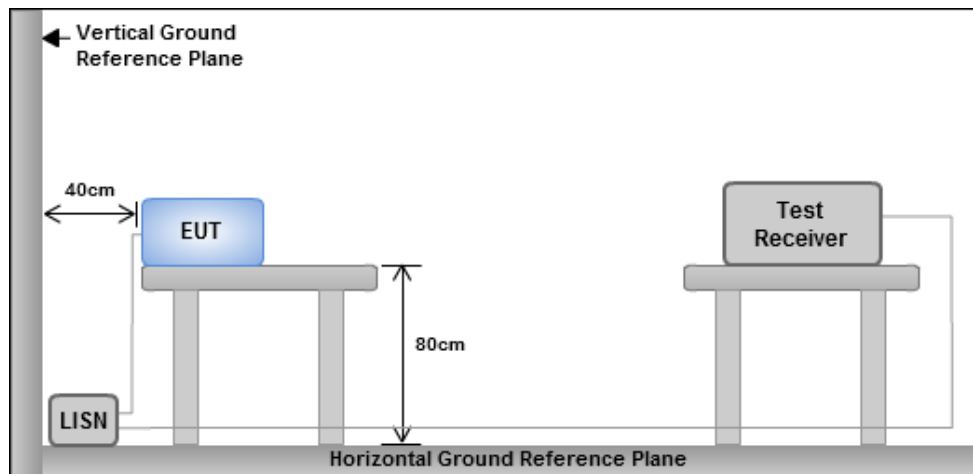
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.8.2 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

3.8.3 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

3.8.4 Test Result

Refer to Appendix H.

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 Corp (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 District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, 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: 886-3-318-0155

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)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.26M	19.13M	19M1D1D	21.6M	19.07M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.68M	37.841M	37M8D1D	40.2M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.44M	77.481M	77M5D1D	81.36M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.36M	155.682M	156MD1D	163.92M	154.483M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.41M	19.13M	19M1D1D	21.66M	19.1M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.62M	37.841M	37M8D1D	40.14M	37.781M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.8M	77.481M	77M5D1D	81.72M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.6M	155.442M	155MD1D	164.88M	154.723M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.29M	19.13M	19M1D1D	21.66M	19.1M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.56M	37.901M	37M9D1D	40.08M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	83.16M	77.601M	77M6D1D	81.6M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.36M	155.442M	155MD1D	164.64M	155.202M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.38M	19.13M	19M1D1D	21.57M	19.07M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.68M	37.901M	37M9D1D	40.32M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.56M	77.481M	77M5D1D	81.48M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.12M	155.442M	155MD1D	164.16M	154.963M

Max-N dB = Maximum 26dB down bandwidth

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 26dB down bandwidth;

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)
802.11ax HEW20_Nss4,(MCS0)_4T X	-	-	-	-	-	-	-	-	-	-
5935MHz	Pass	Inf	22.14M	19.1M	21.6M	19.13M	22.17M	19.13M	21.78M	19.13M
5955MHz	Pass	Inf	21.93M	19.13M	21.99M	19.1M	21.93M	19.1M	22.26M	19.1M
6175MHz	Pass	Inf	22.2M	19.1M	21.84M	19.1M	22.26M	19.1M	21.87M	19.07M
6415MHz	Pass	Inf	22.11M	19.13M	22.11M	19.1M	22.11M	19.07M	21.72M	19.1M
6435MHz	Pass	Inf	22.2M	19.1M	22.11M	19.13M	21.99M	19.13M	21.72M	19.13M
6475MHz	Pass	Inf	22.41M	19.13M	21.66M	19.13M	21.99M	19.1M	21.93M	19.1M
6515MHz	Pass	Inf	21.99M	19.1M	21.81M	19.1M	22.14M	19.1M	21.75M	19.13M
6535MHz	Pass	Inf	22.29M	19.1M	21.93M	19.1M	22.23M	19.1M	21.96M	19.1M
6715MHz	Pass	Inf	21.93M	19.1M	22.26M	19.1M	21.9M	19.13M	21.66M	19.1M
6855MHz	Pass	Inf	21.99M	19.13M	21.93M	19.1M	22.2M	19.1M	21.72M	19.1M
6875MHz Straddle 6.875-7.125GHz	Pass	Inf	22.38M	19.1M	21.75M	19.13M	22.11M	19.1M	22.05M	19.13M
6895MHz	Pass	Inf	22.11M	19.13M	21.99M	19.13M	22.14M	19.13M	21.84M	19.1M
7015MHz	Pass	Inf	21.87M	19.13M	21.66M	19.1M	21.87M	19.1M	21.84M	19.07M
7095MHz	Pass	Inf	22.26M	19.07M	22.14M	19.13M	21.81M	19.13M	22.2M	19.13M
7115MHz	Pass	Inf	22.26M	19.13M	21.69M	19.1M	22.29M	19.13M	21.57M	19.07M
802.11ax HEW40_Nss4,(MCS0)_4T X	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	40.38M	37.841M	40.32M	37.781M	40.38M	37.781M	40.56M	37.781M
6165MHz	Pass	Inf	40.44M	37.781M	40.2M	37.781M	40.68M	37.721M	40.68M	37.841M
6405MHz	Pass	Inf	40.44M	37.841M	40.5M	37.781M	40.68M	37.781M	40.38M	37.781M
6445MHz	Pass	Inf	40.44M	37.841M	40.14M	37.781M	40.5M	37.781M	40.5M	37.841M
6485MHz	Pass	Inf	40.62M	37.841M	40.32M	37.841M	40.44M	37.781M	40.5M	37.781M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	40.32M	37.781M	40.32M	37.781M	40.44M	37.781M	40.32M	37.781M
6565MHz	Pass	Inf	40.44M	37.781M	40.56M	37.721M	40.44M	37.901M	40.08M	37.841M
6725MHz	Pass	Inf	40.5M	37.841M	40.38M	37.841M	40.38M	37.781M	40.56M	37.841M
6845MHz	Pass	Inf	40.5M	37.781M	40.56M	37.901M	40.32M	37.781M	40.08M	37.781M
6885MHz Straddle 6.875-7.125GHz	Pass	Inf	40.38M	37.841M	40.38M	37.841M	40.44M	37.901M	40.38M	37.781M
6925MHz	Pass	Inf	40.56M	37.841M	40.5M	37.841M	40.68M	37.781M	40.32M	37.781M
7005MHz	Pass	Inf	40.32M	37.841M	40.5M	37.721M	40.62M	37.841M	40.32M	37.841M
7085MHz	Pass	Inf	40.32M	37.781M	40.44M	37.841M	40.68M	37.781M	40.38M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4T X	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	81.96M	77.481M	82.2M	77.361M	82.08M	77.361M	82.32M	77.241M
6145MHz	Pass	Inf	82.44M	77.481M	81.36M	77.361M	81.72M	77.481M	82.2M	77.481M
6385MHz	Pass	Inf	82.08M	77.481M	82.08M	77.481M	82.08M	77.481M	81.96M	77.481M

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)
6465MHz	Pass	Inf	82.8M	77.361M	82.08M	77.361M	82.68M	77.481M	81.72M	77.481M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	82.08M	77.361M	82.44M	77.241M	82.2M	77.481M	81.72M	77.241M
6625MHz	Pass	Inf	81.96M	77.361M	82.56M	77.481M	81.6M	77.361M	82.2M	77.241M
6705MHz	Pass	Inf	82.44M	77.241M	82.2M	77.481M	81.96M	77.601M	83.16M	77.361M
6785MHz	Pass	Inf	82.8M	77.361M	82.08M	77.241M	82.2M	77.481M	81.84M	77.481M
6865MHz Straddle 6.875-7.125GHz	Pass	Inf	82.08M	77.361M	82.08M	77.361M	82.2M	77.361M	81.96M	77.361M
6945MHz	Pass	Inf	82.2M	77.361M	81.48M	77.361M	81.96M	77.361M	82.44M	77.241M
7025MHz	Pass	Inf	82.56M	77.481M	82.32M	77.481M	81.84M	77.481M	82.44M	77.481M
802.11ax HEW160_Nss4,(MCS0)_4 TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	164.64M	155.202M	164.88M	154.963M	163.92M	154.723M	164.64M	154.963M
6185MHz	Pass	Inf	164.64M	155.202M	164.16M	155.442M	164.16M	154.723M	164.64M	154.483M
6345MHz	Pass	Inf	165.12M	155.682M	164.88M	155.442M	165.12M	155.682M	165.36M	155.442M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	165.12M	155.202M	164.88M	154.723M	164.88M	155.442M	165.6M	154.963M
6665MHz	Pass	Inf	165.12M	155.202M	164.64M	155.202M	165.12M	155.442M	165.36M	155.442M
6825MHz Straddle 6.875-7.125GHz	Pass	Inf	164.64M	155.442M	164.64M	155.442M	165.12M	154.963M	164.4M	155.202M
6985MHz	Pass	Inf	164.16M	155.202M	164.4M	154.963M	164.88M	154.963M	164.64M	154.963M

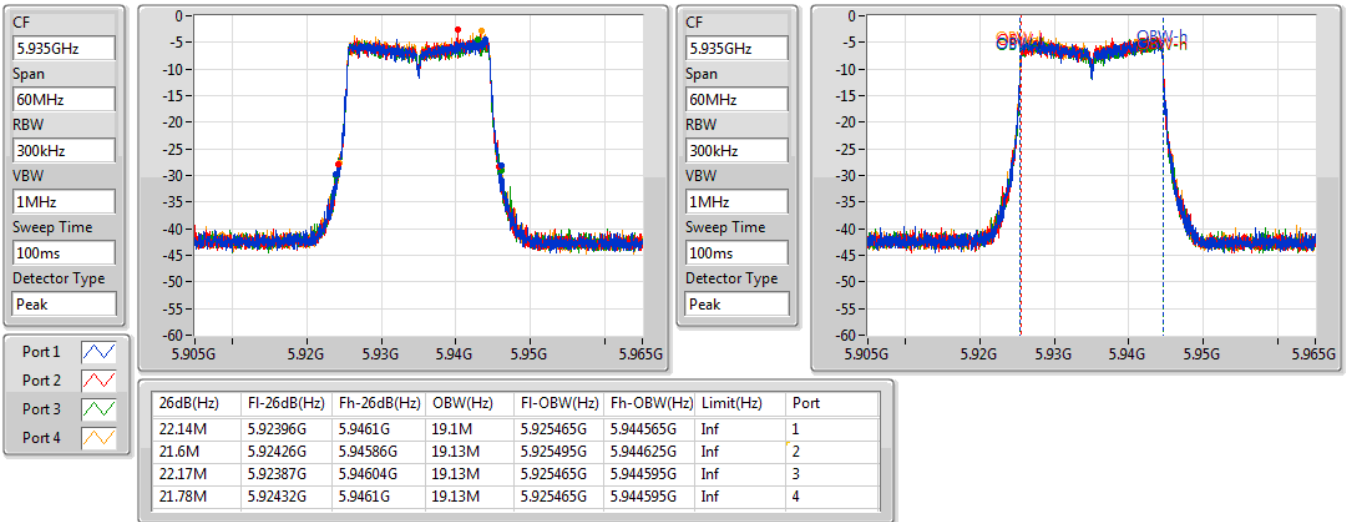
Port X-N dB = Port X 26dB down bandwidth

Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

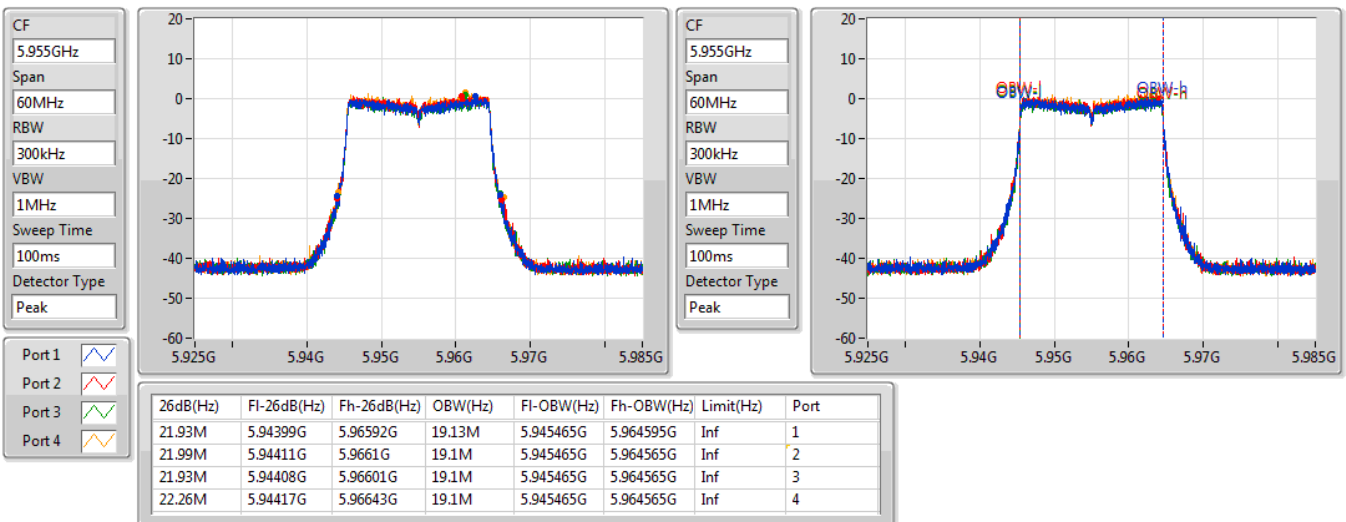
5935MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

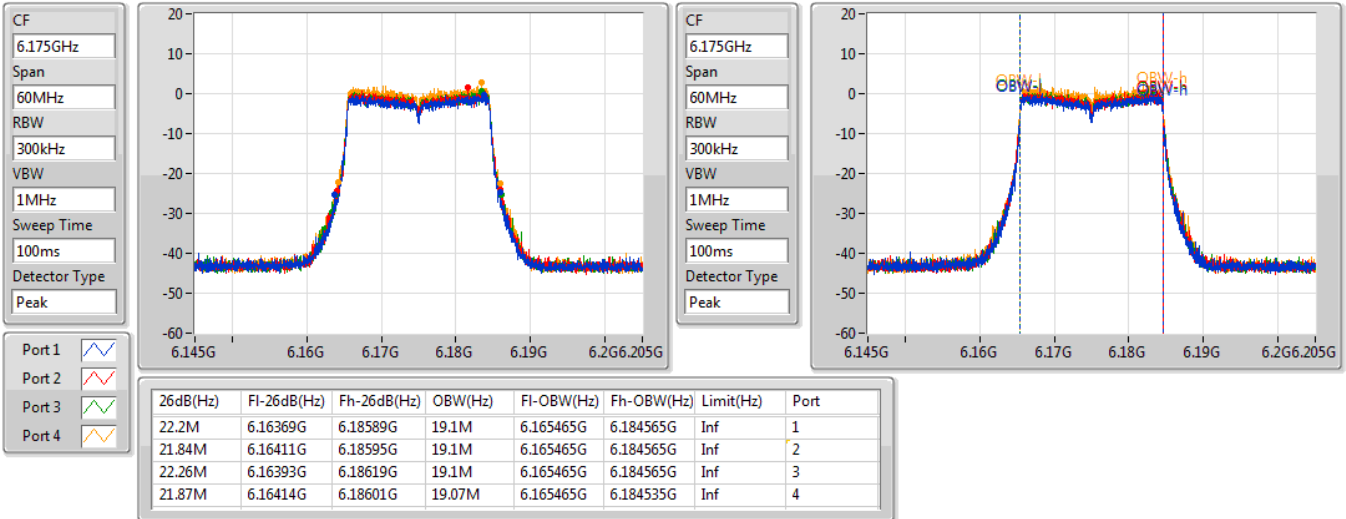
5955MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

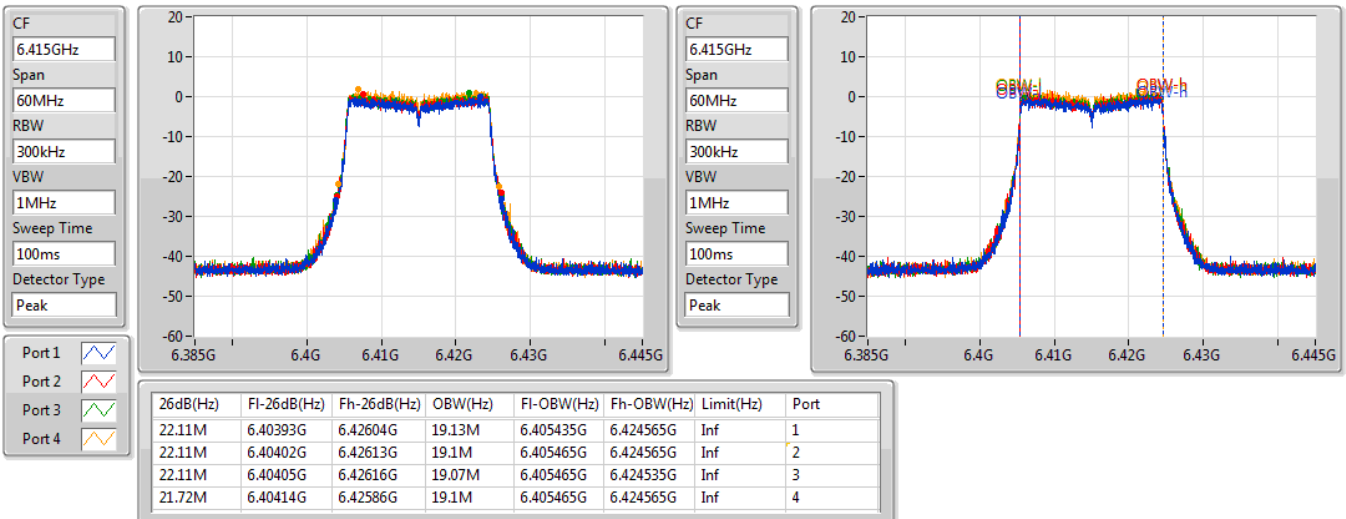
6175MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

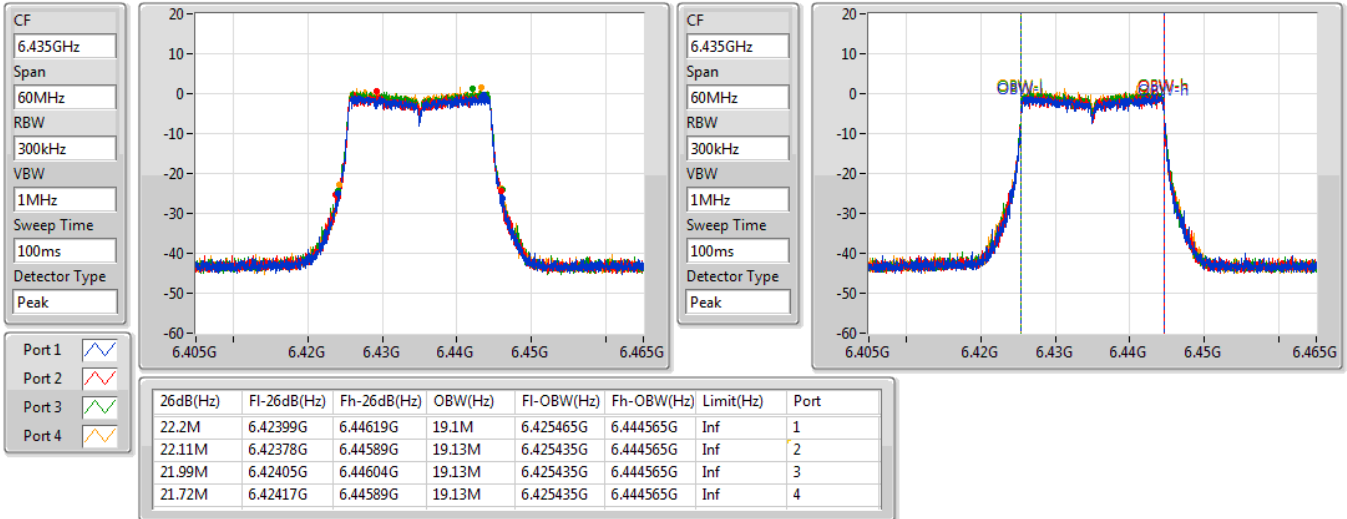
6415MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

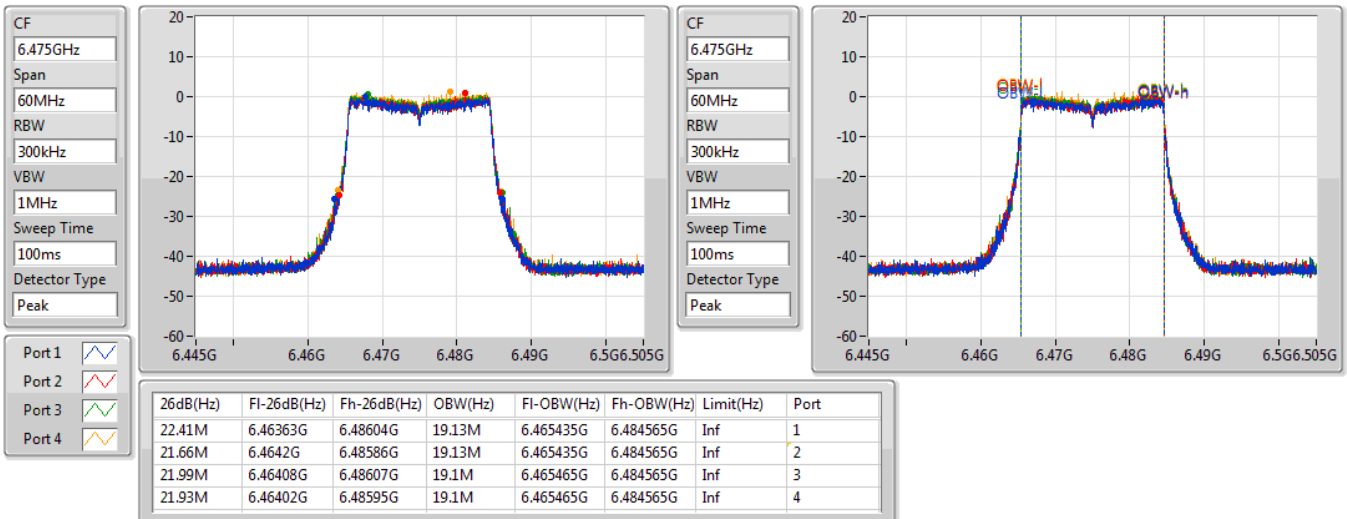
6435MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

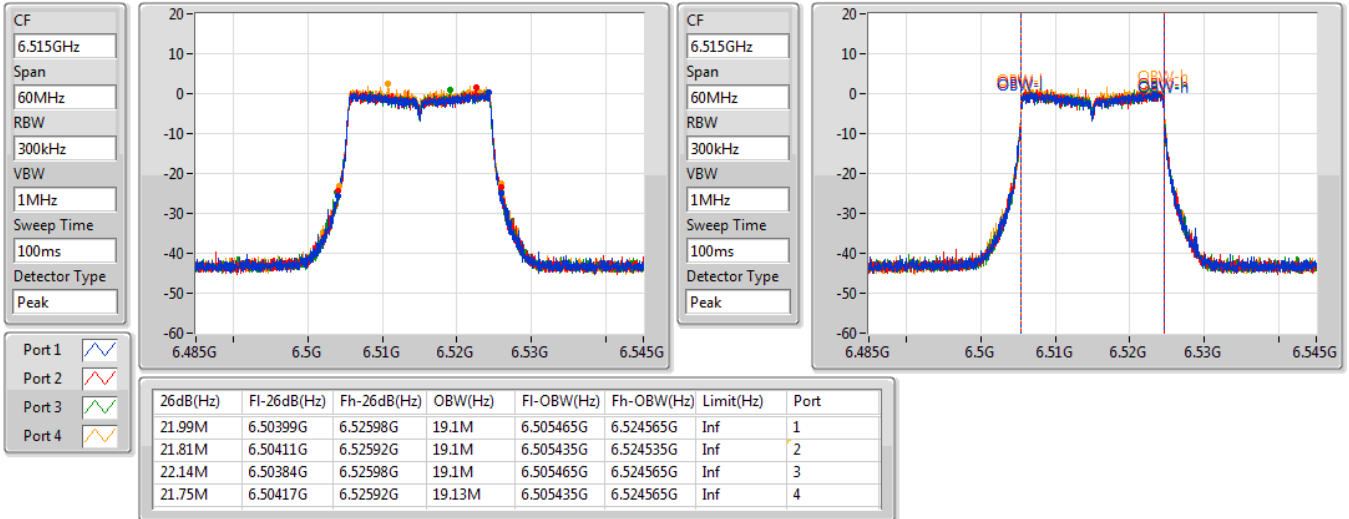
6475MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

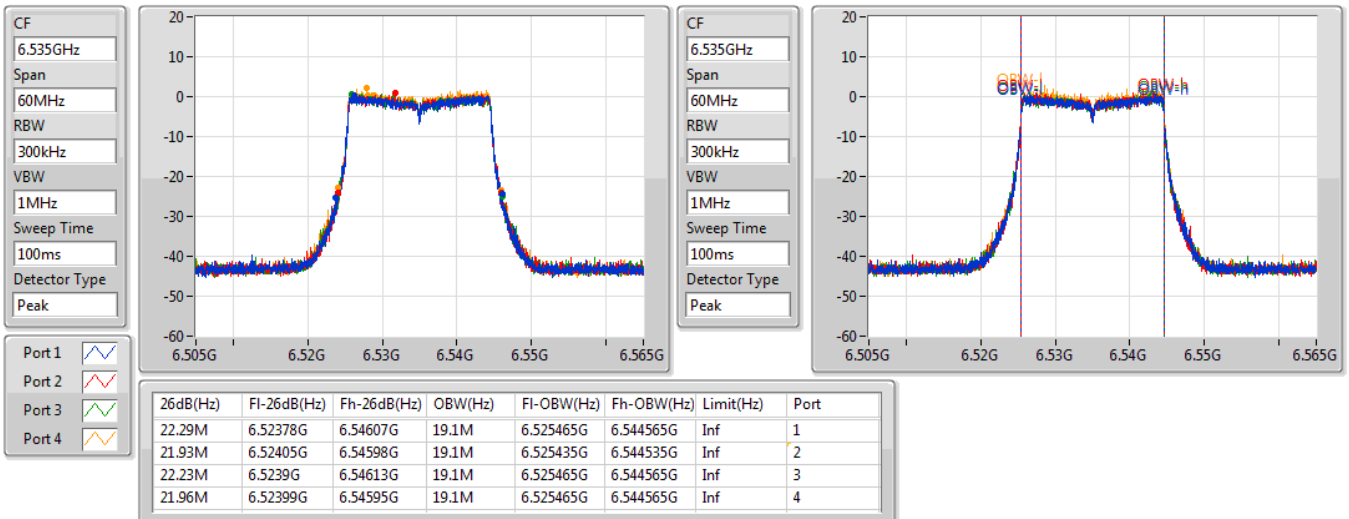
6515MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

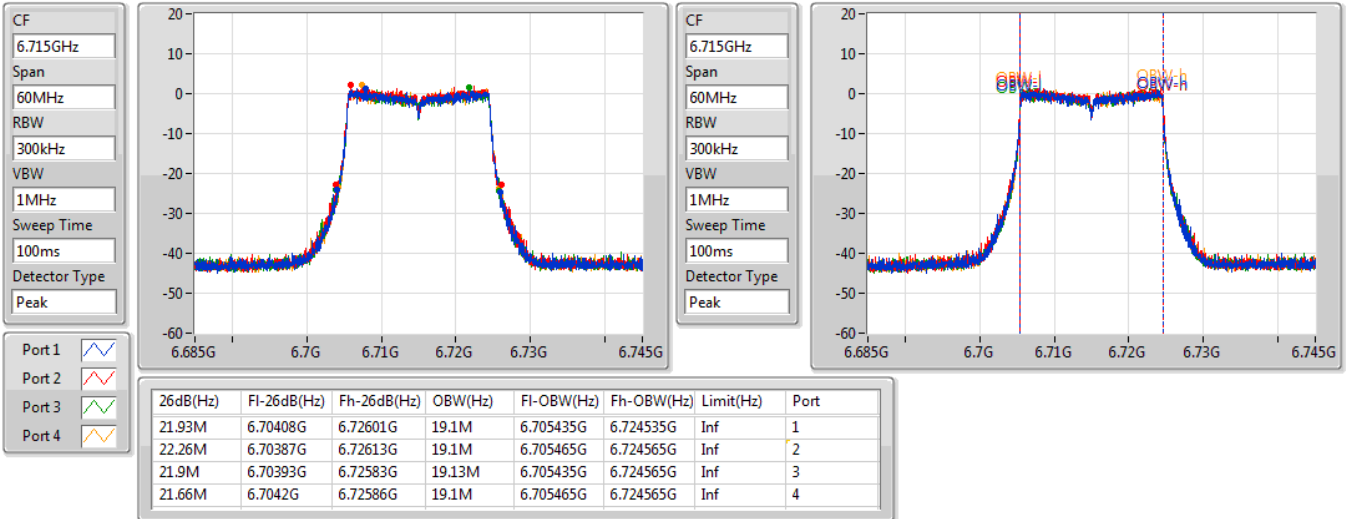
6535MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

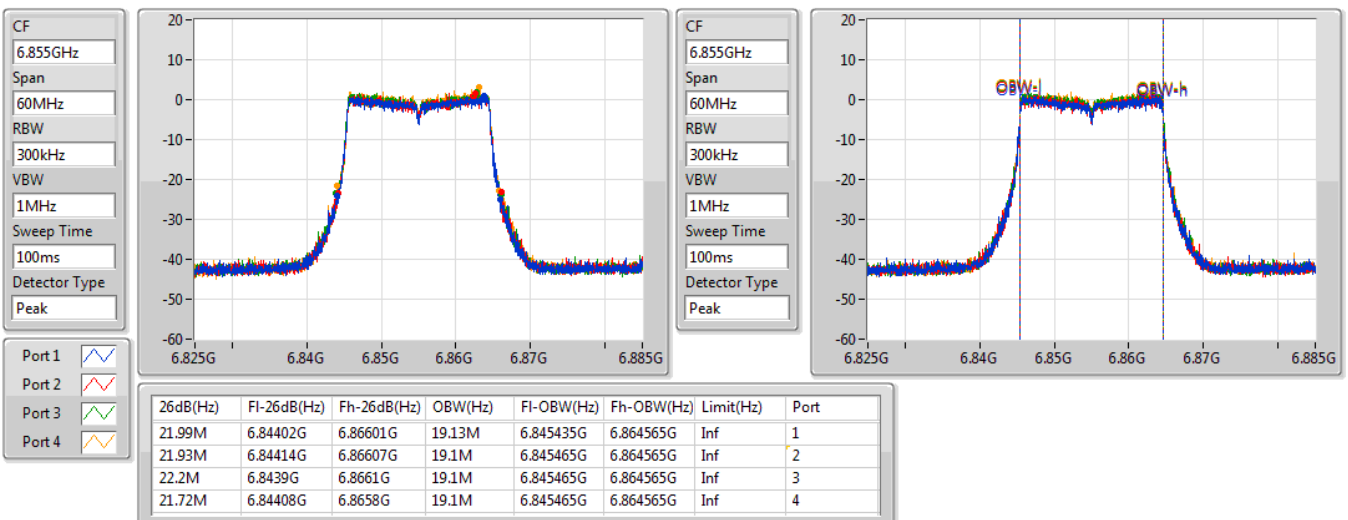
6715MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

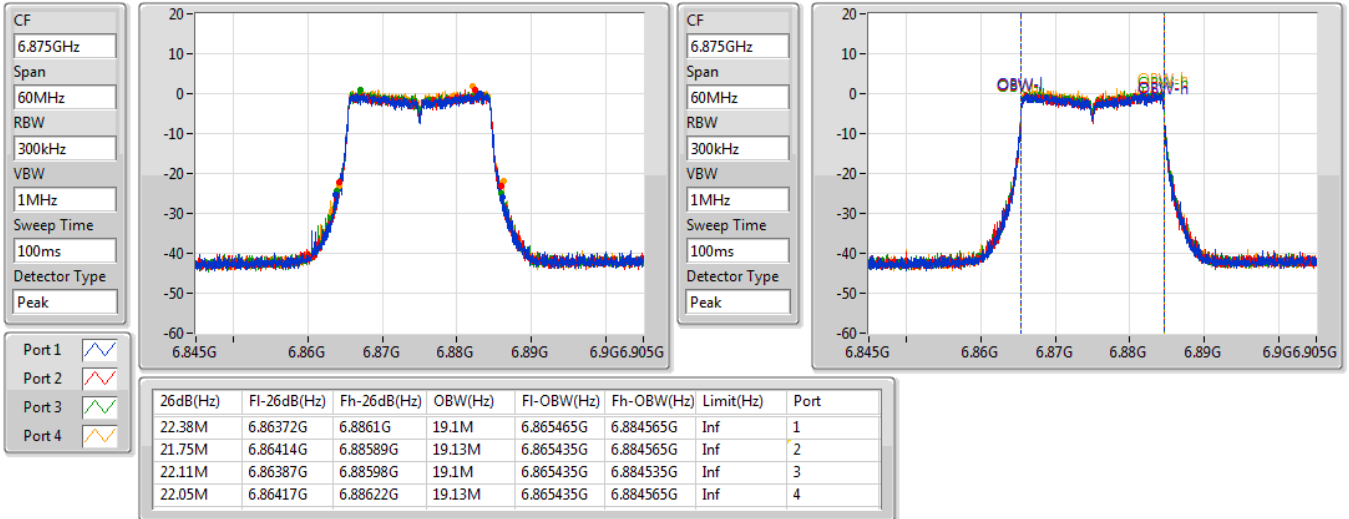
6855MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

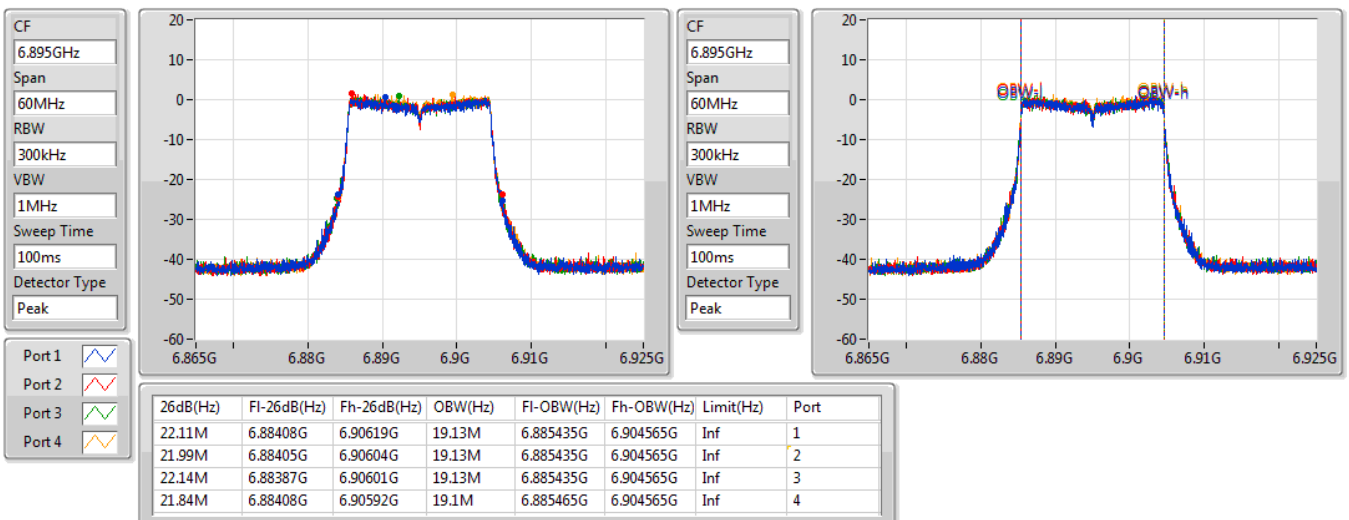
6875MHz Straddle 6.875-7.125GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

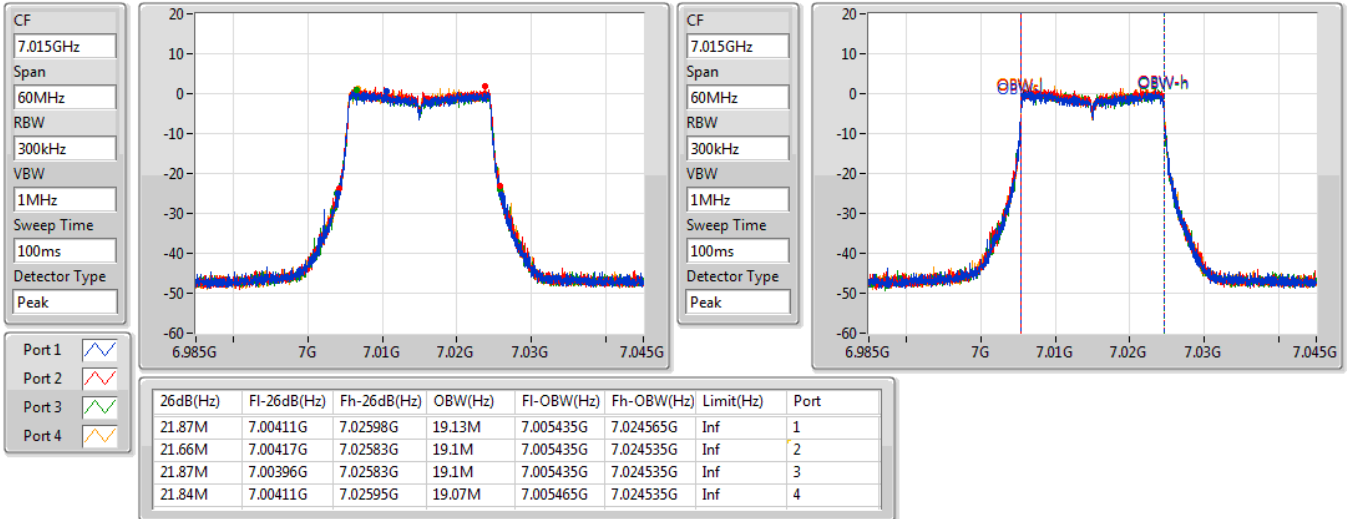
6895MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

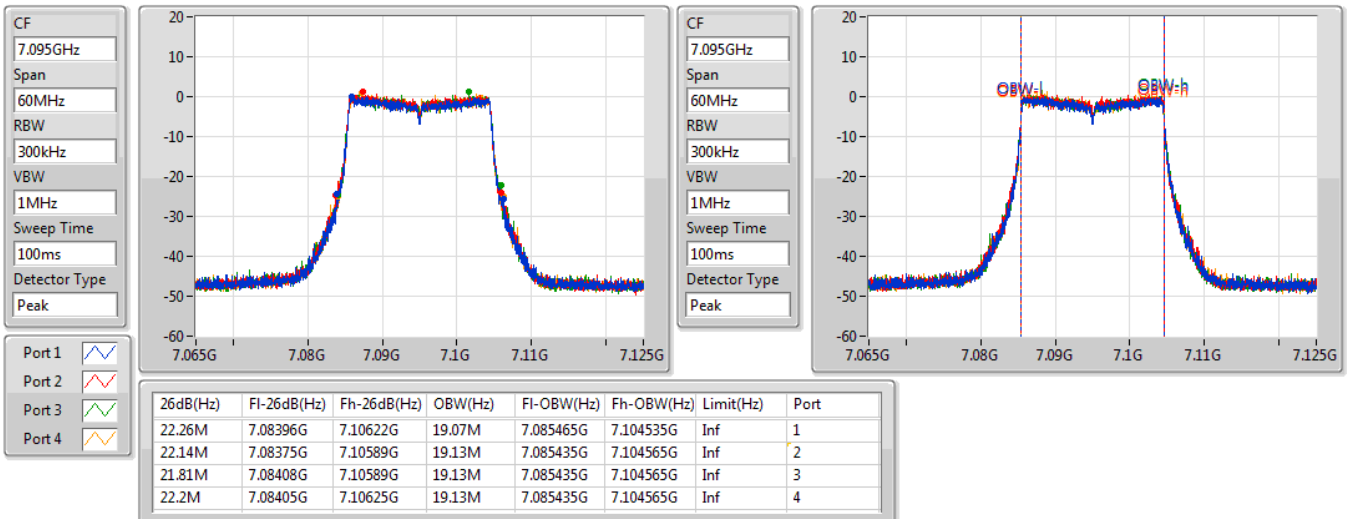
7015MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

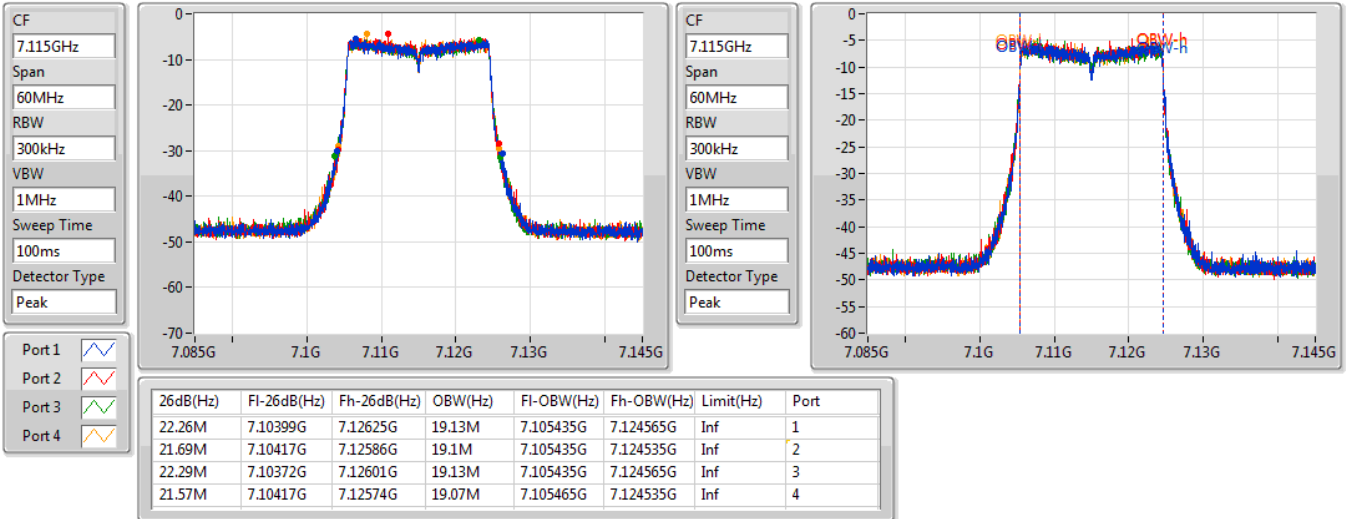
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802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

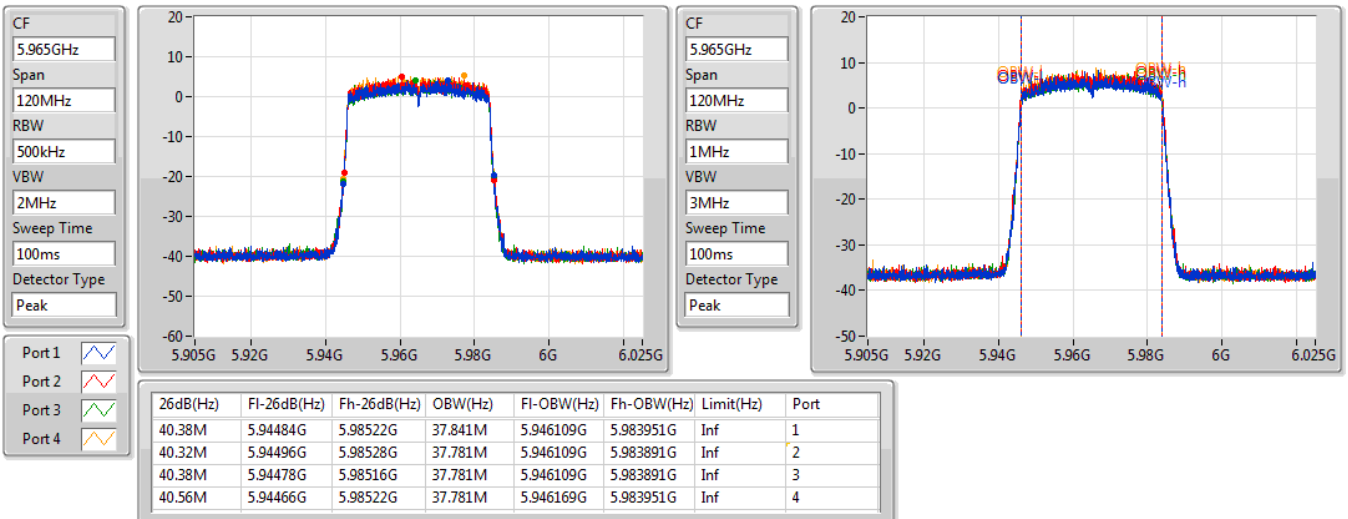
7115MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

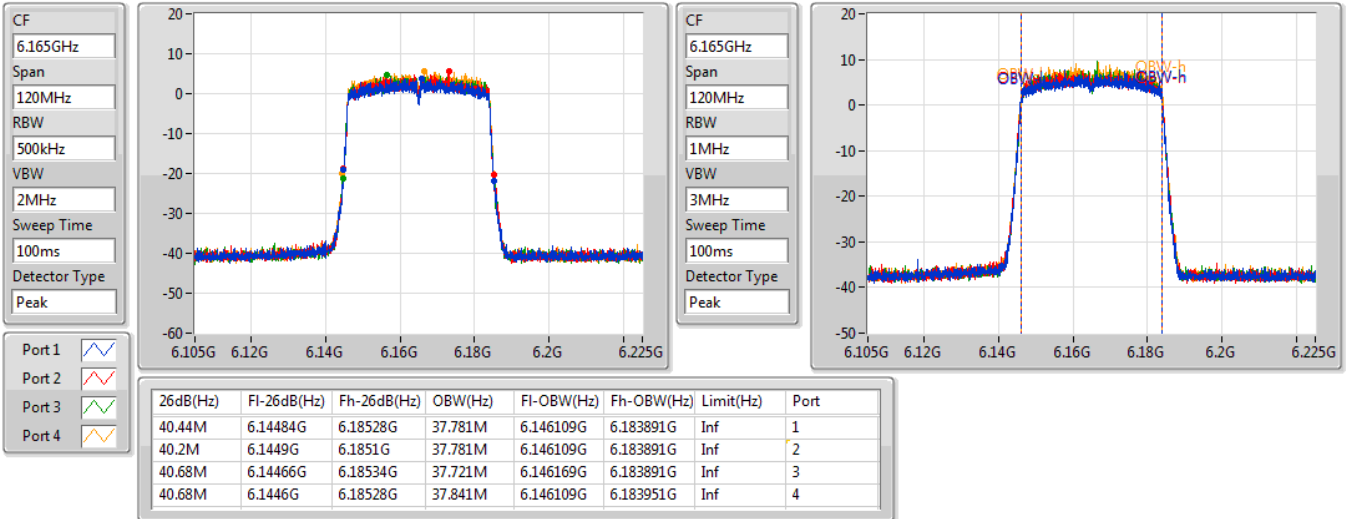
5965MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

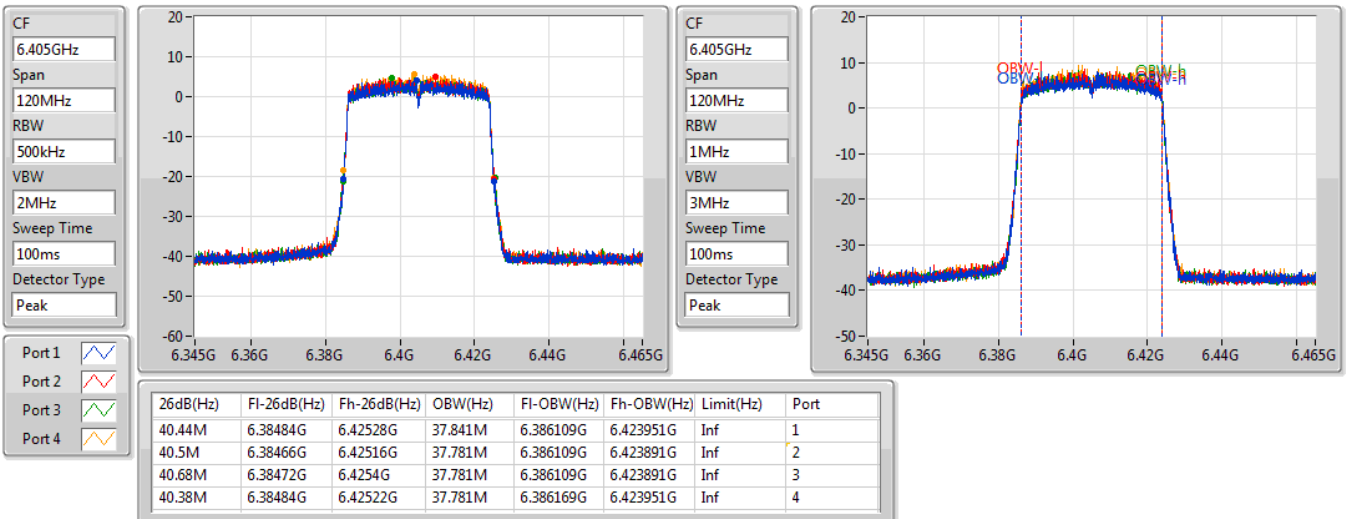
6165MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

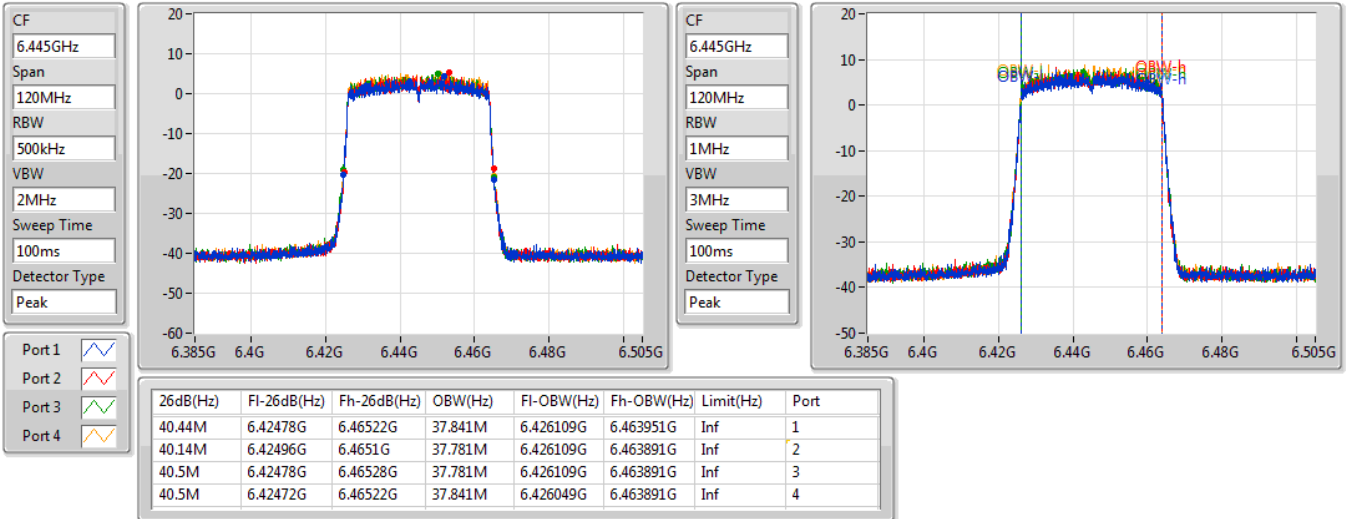
6405MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

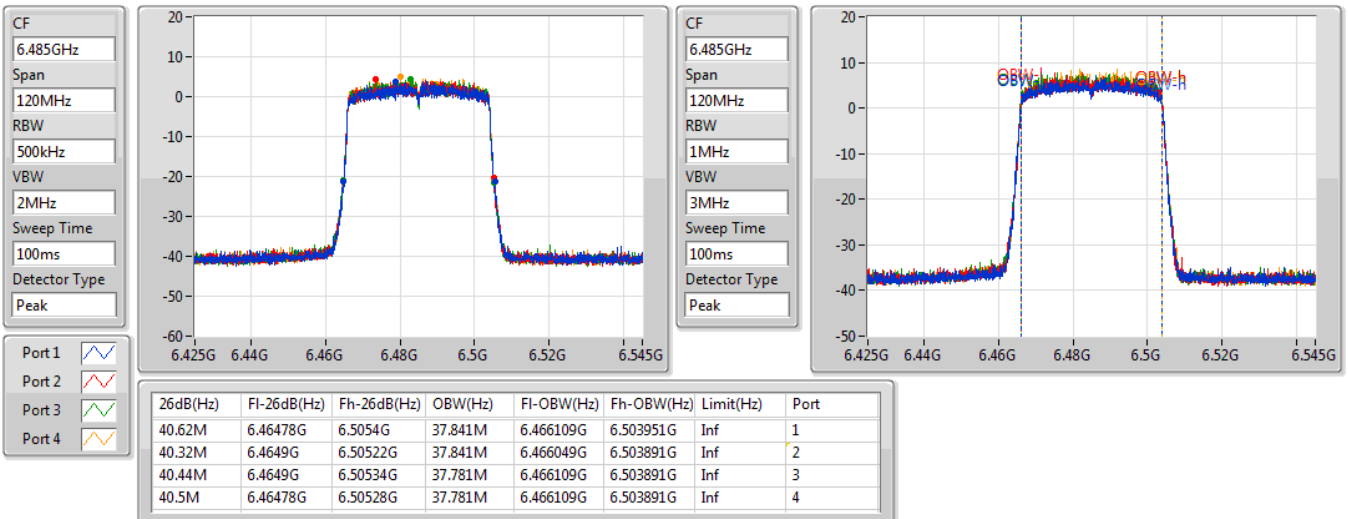
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802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

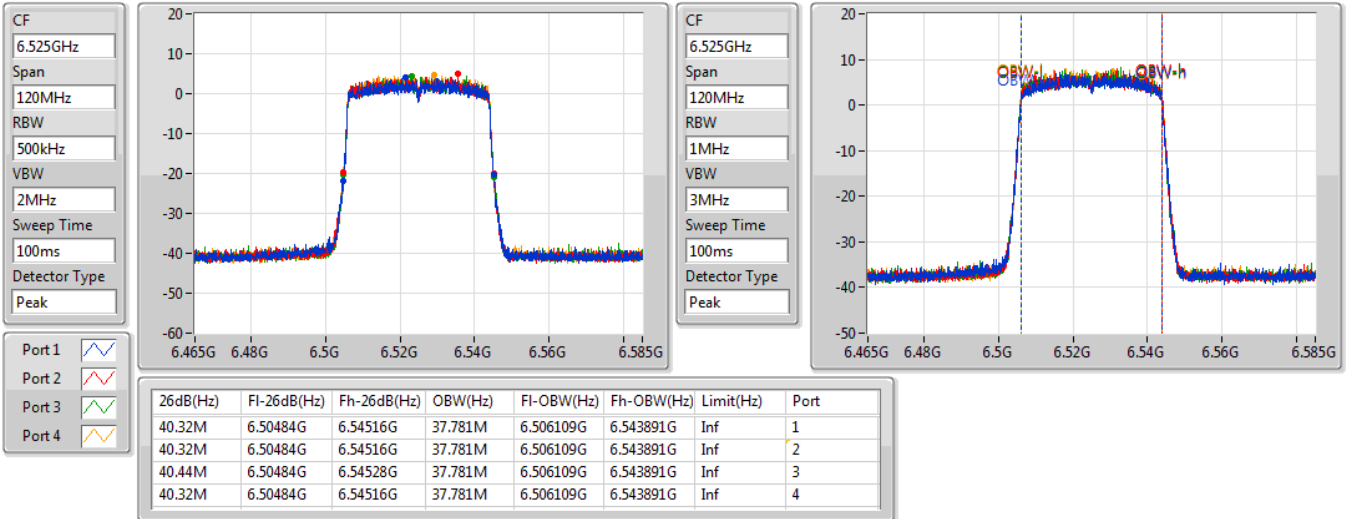
6485MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

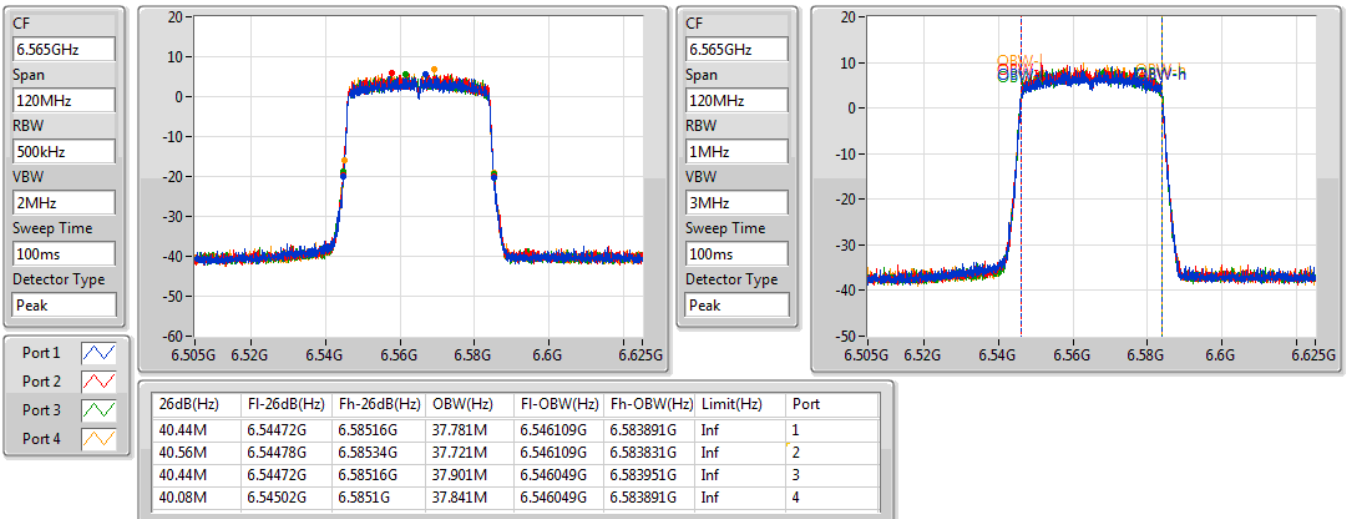
6525MHz Straddle 6.425-6.525GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

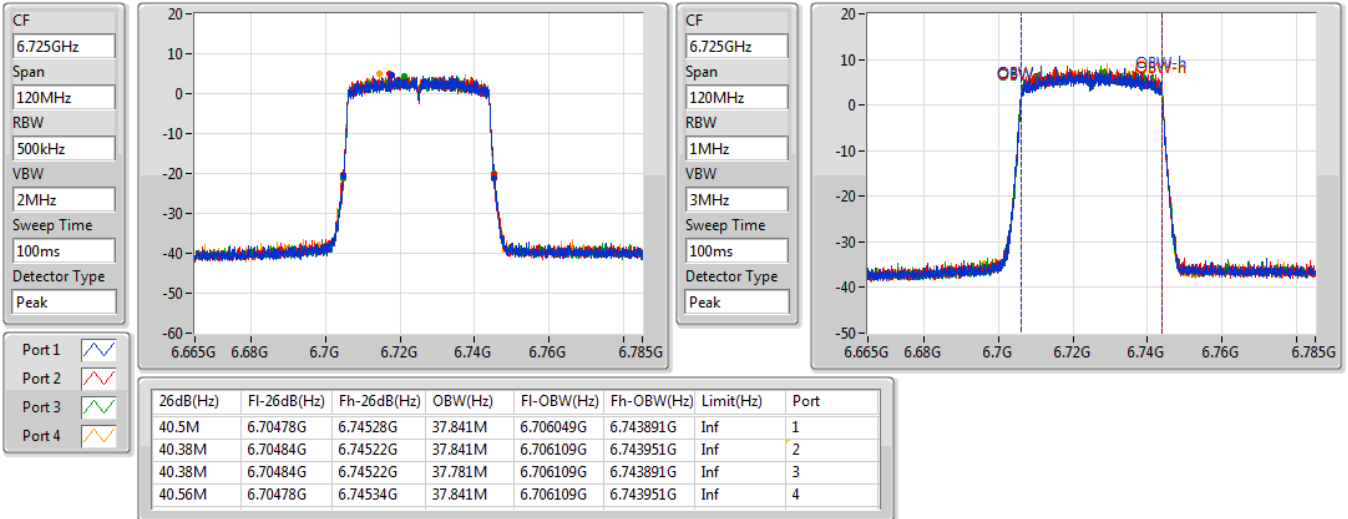
6565MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

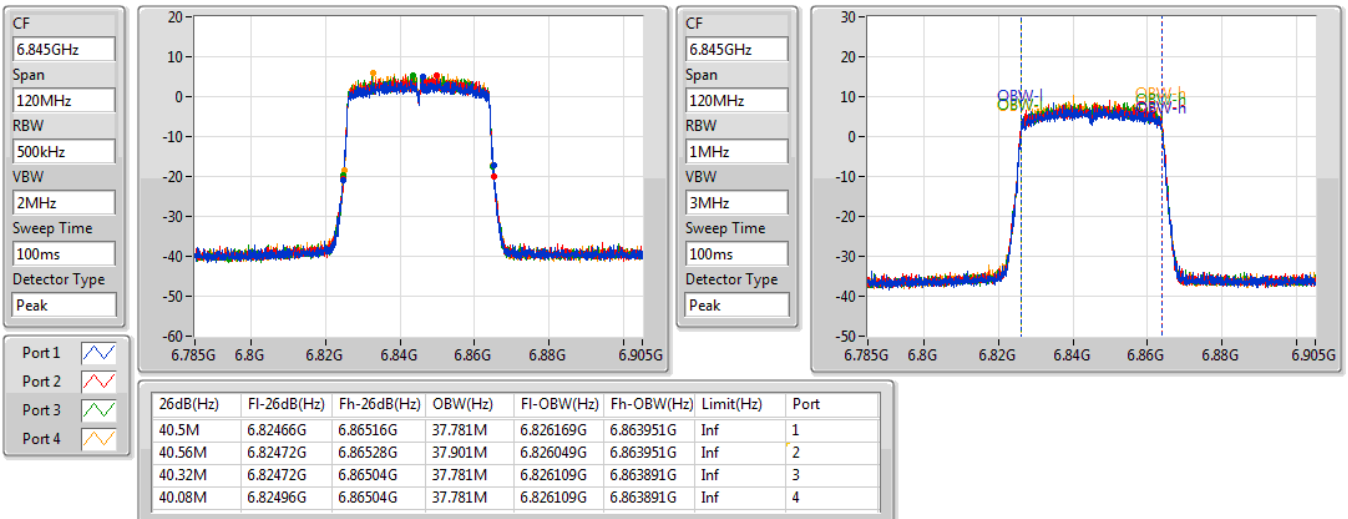
6725MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

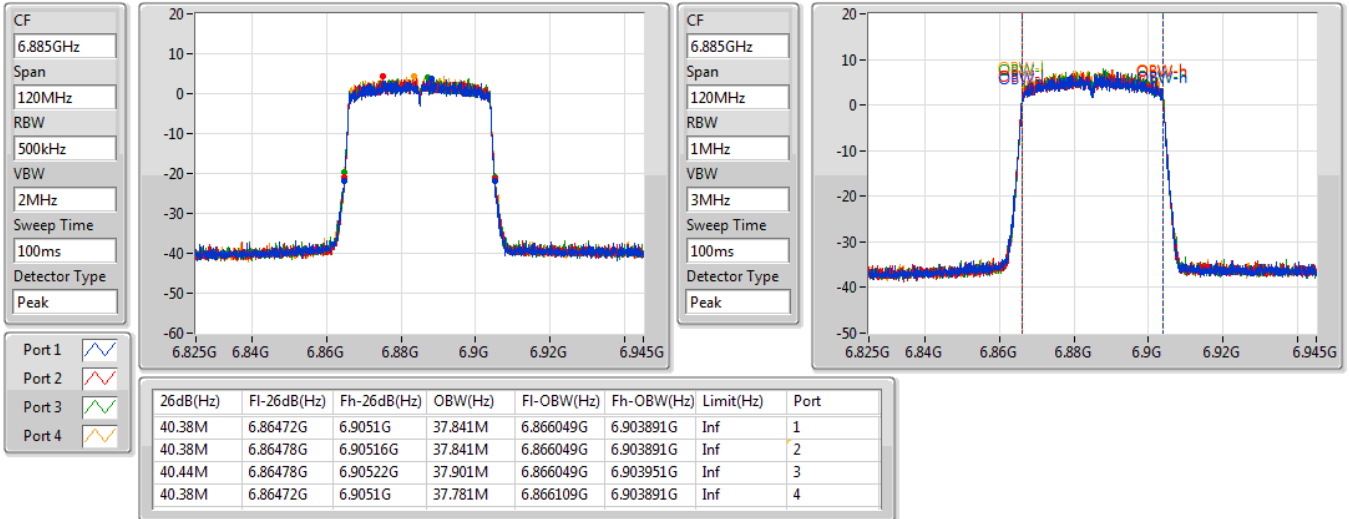
6845MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

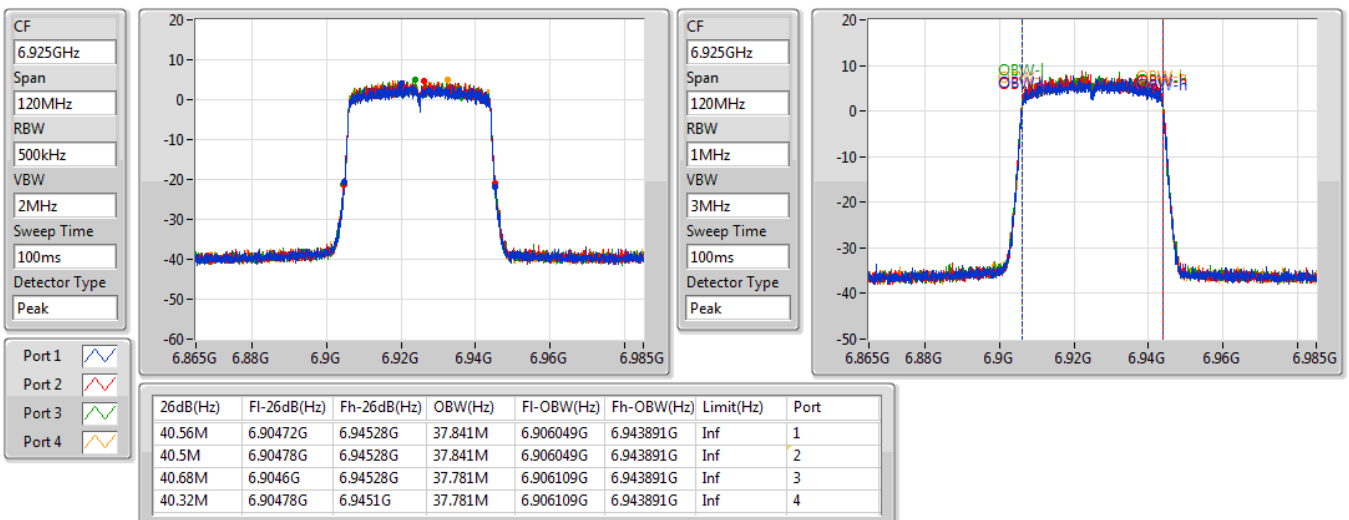
6885MHz Straddle 6.875-7.125GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

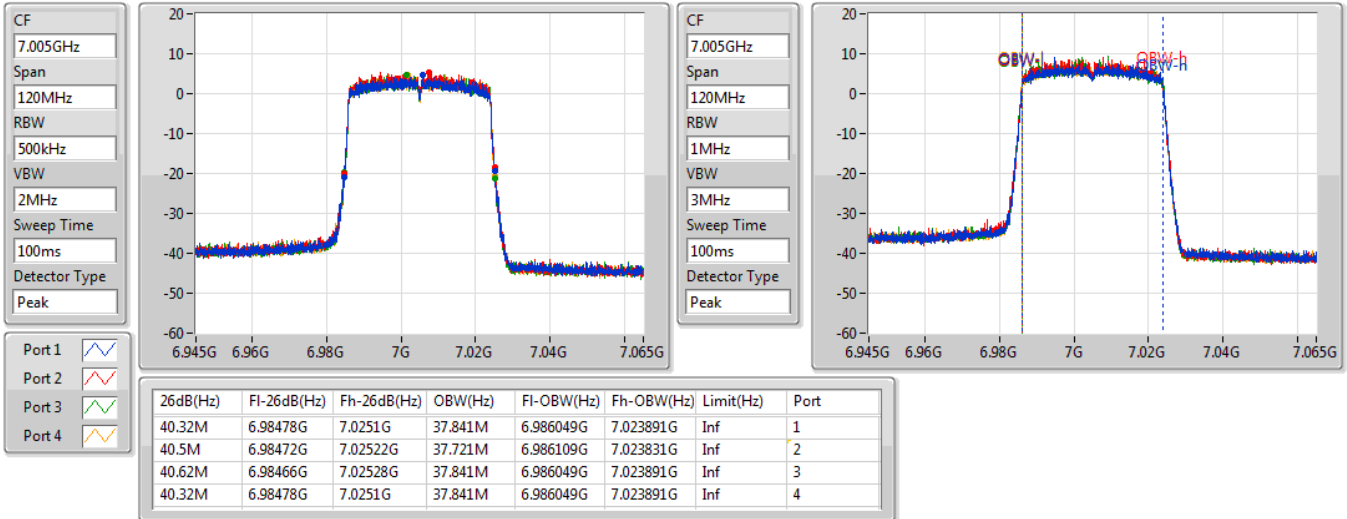
6925MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

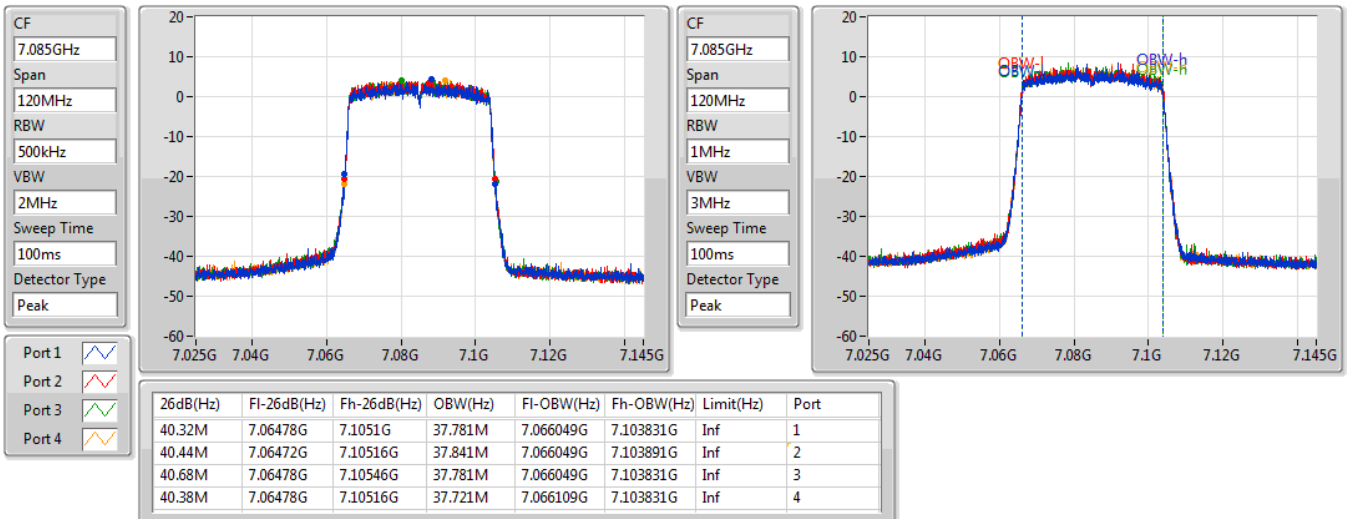
7005MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

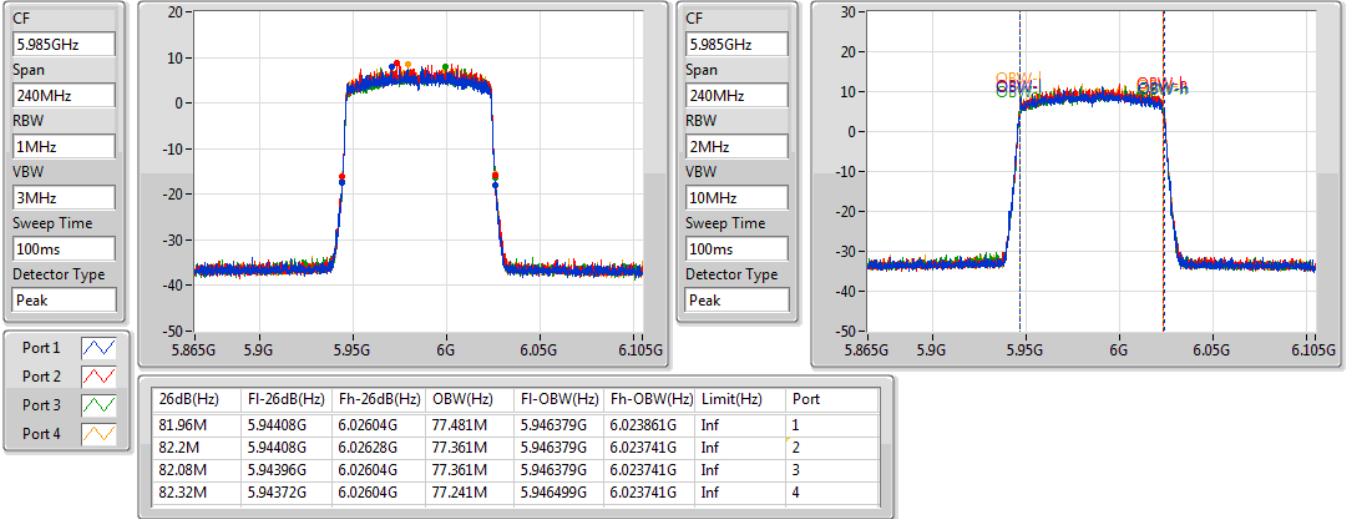
7085MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

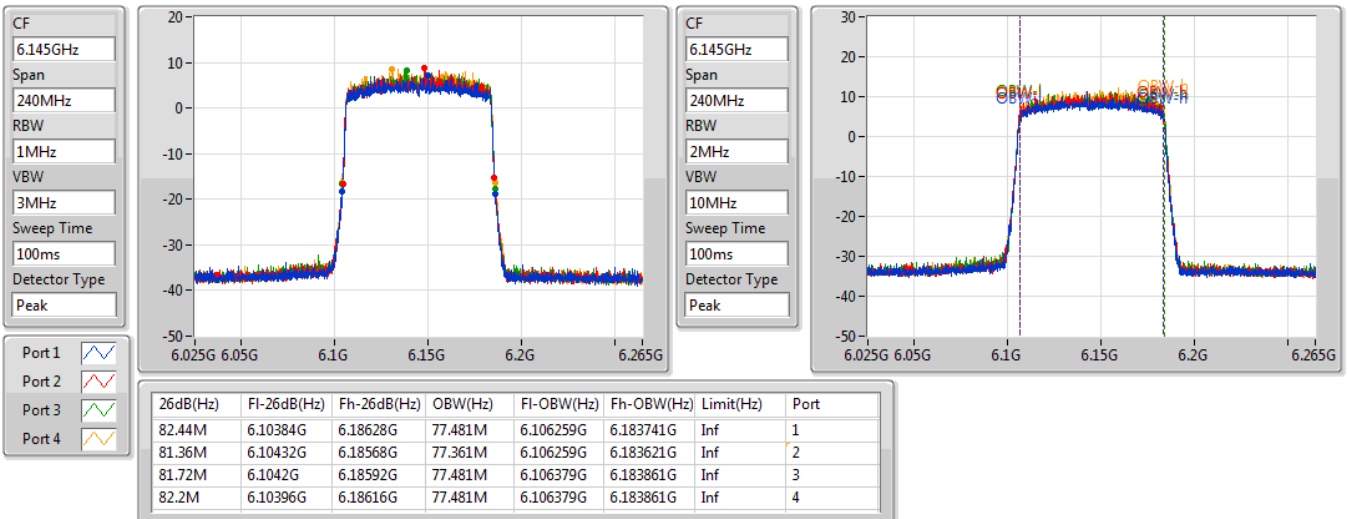
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802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

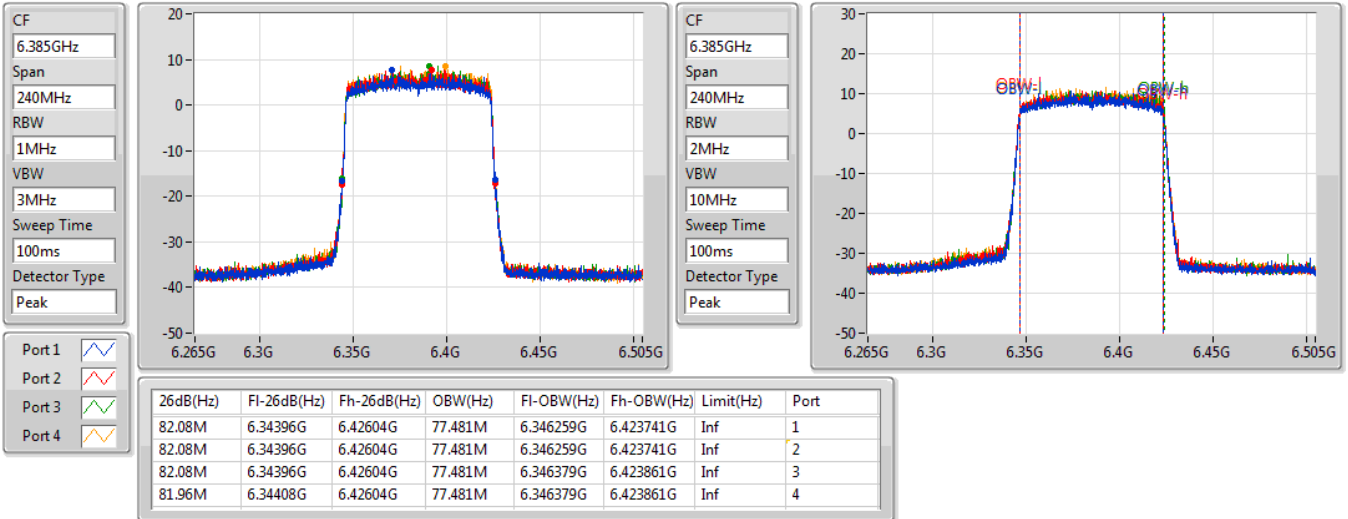
6145MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

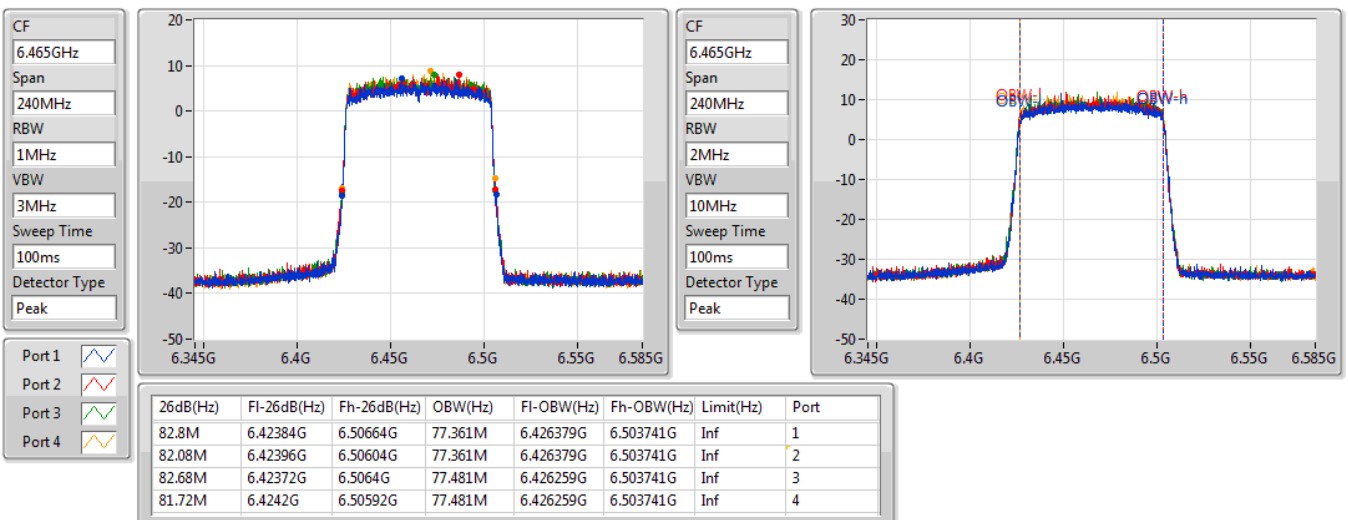
6385MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

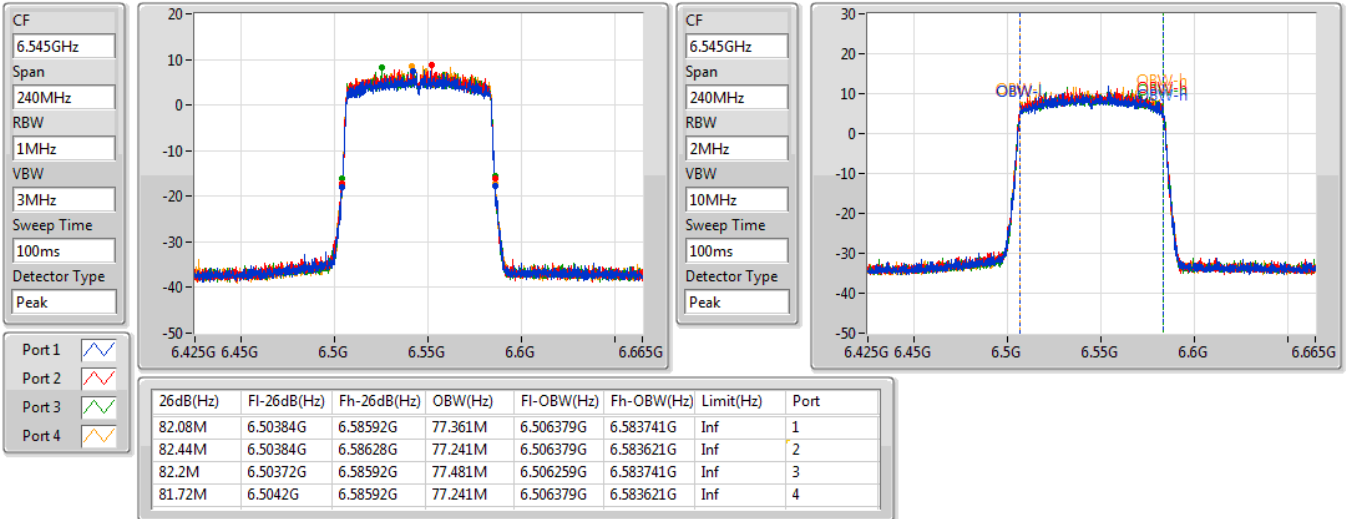
6465MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

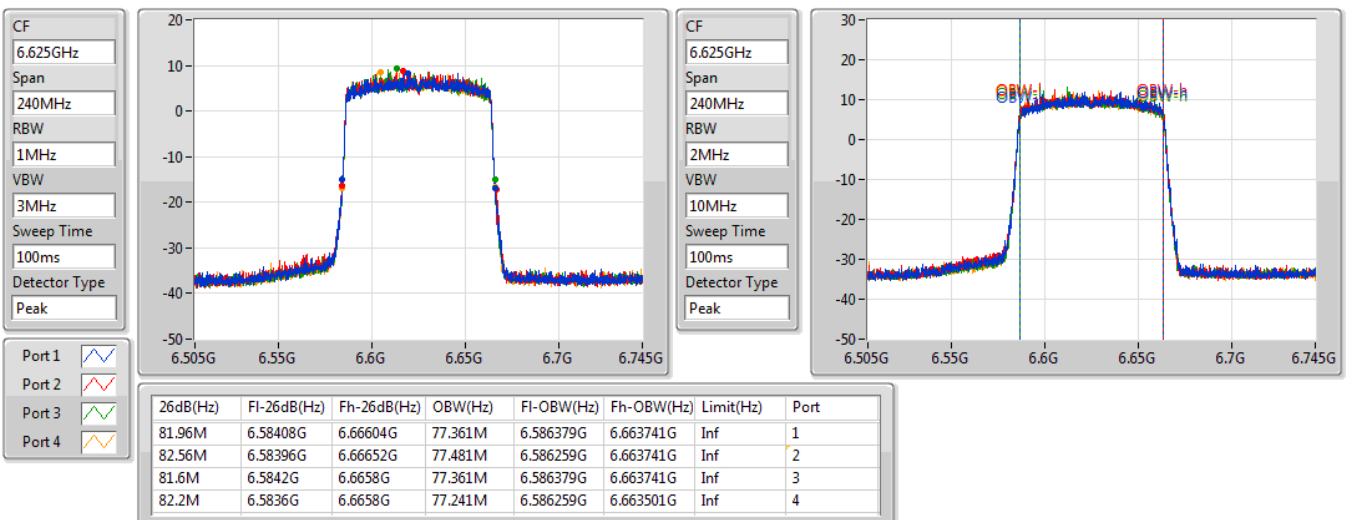
6545MHz Straddle 6.425-6.525GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

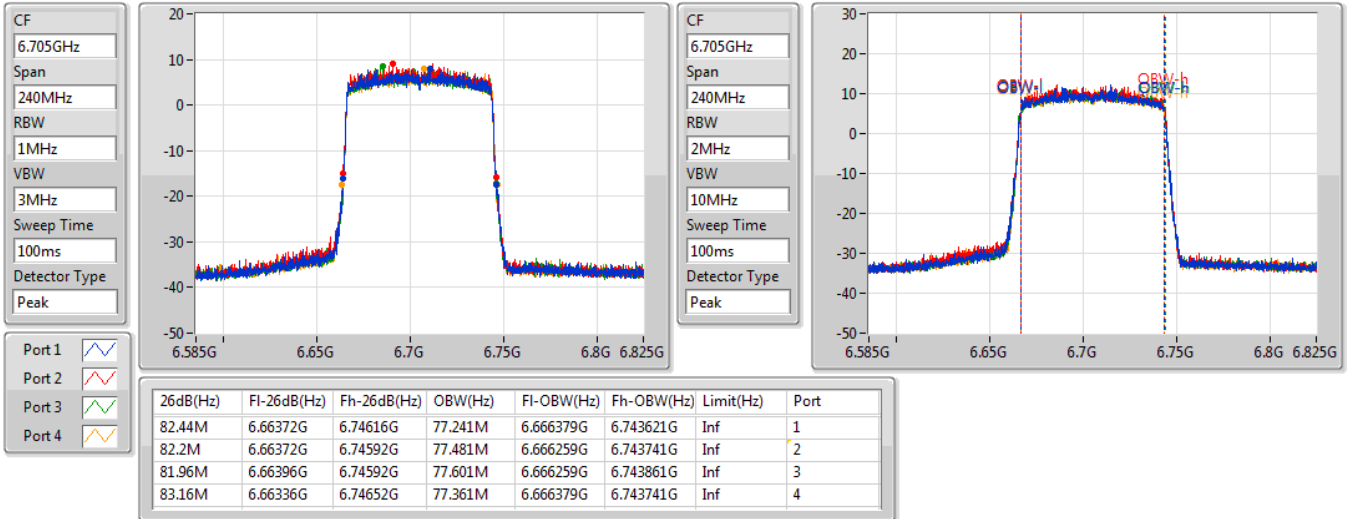
6625MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

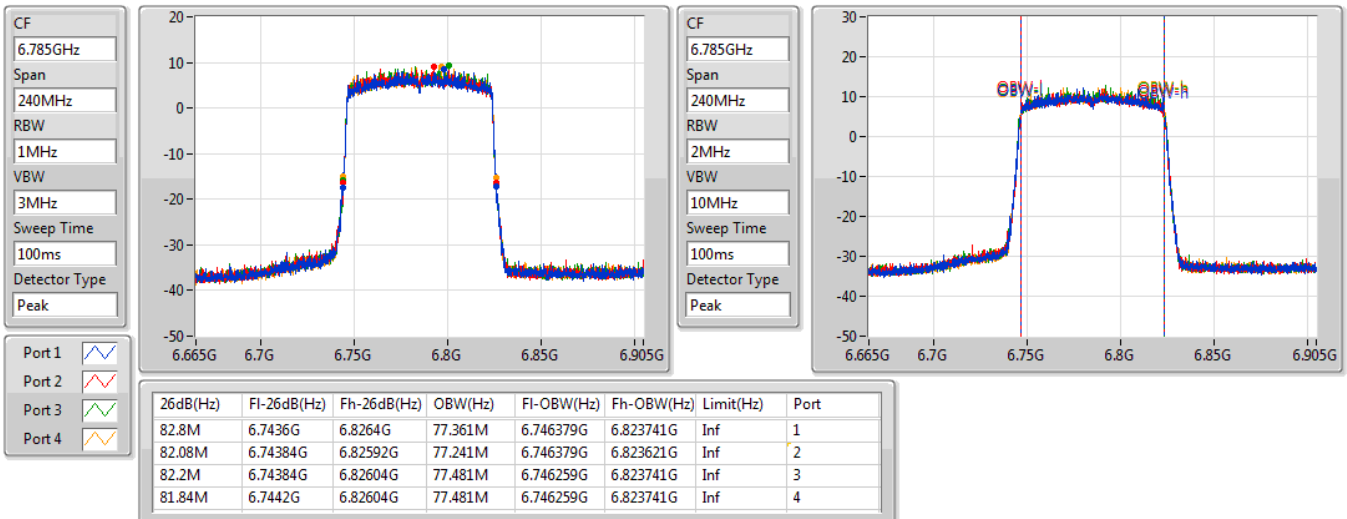
6705MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

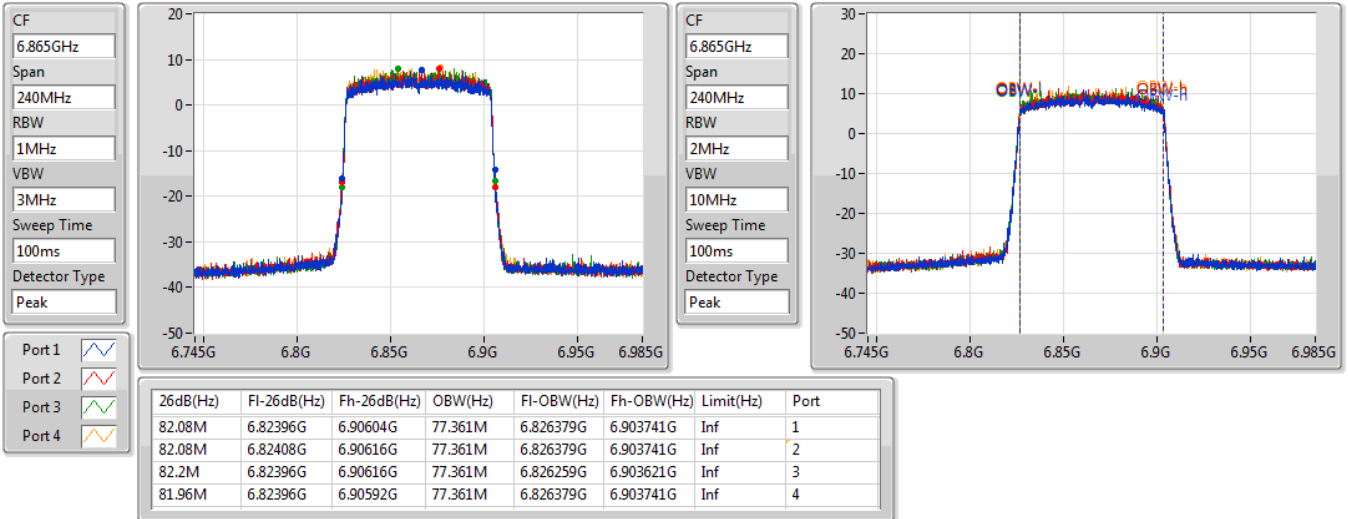
6785MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

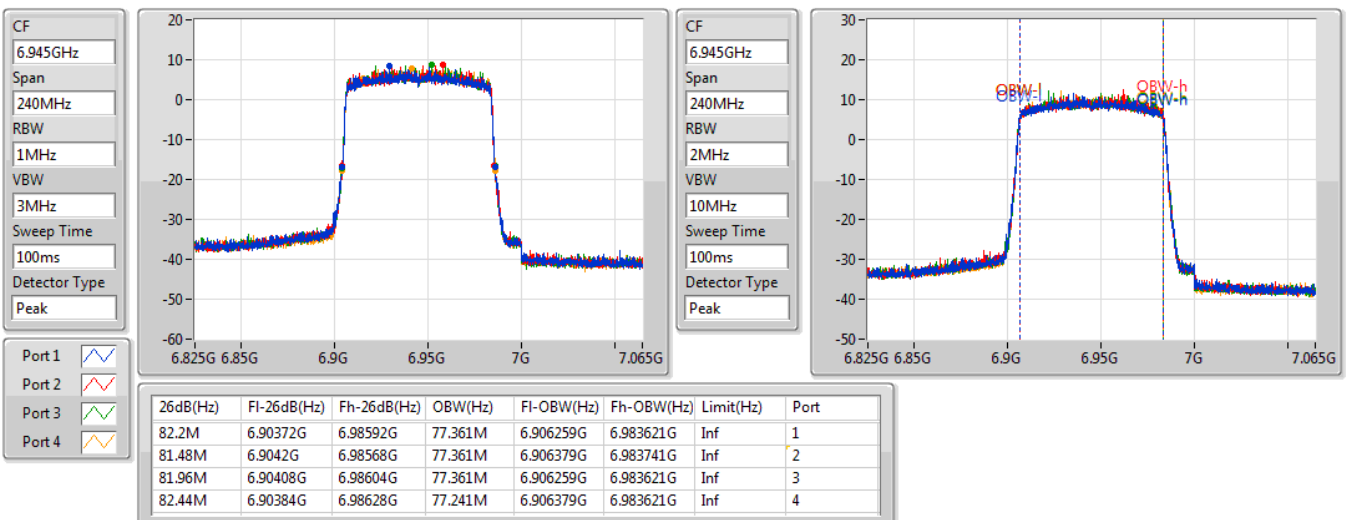
6865MHz Straddle 6.875-7.125GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

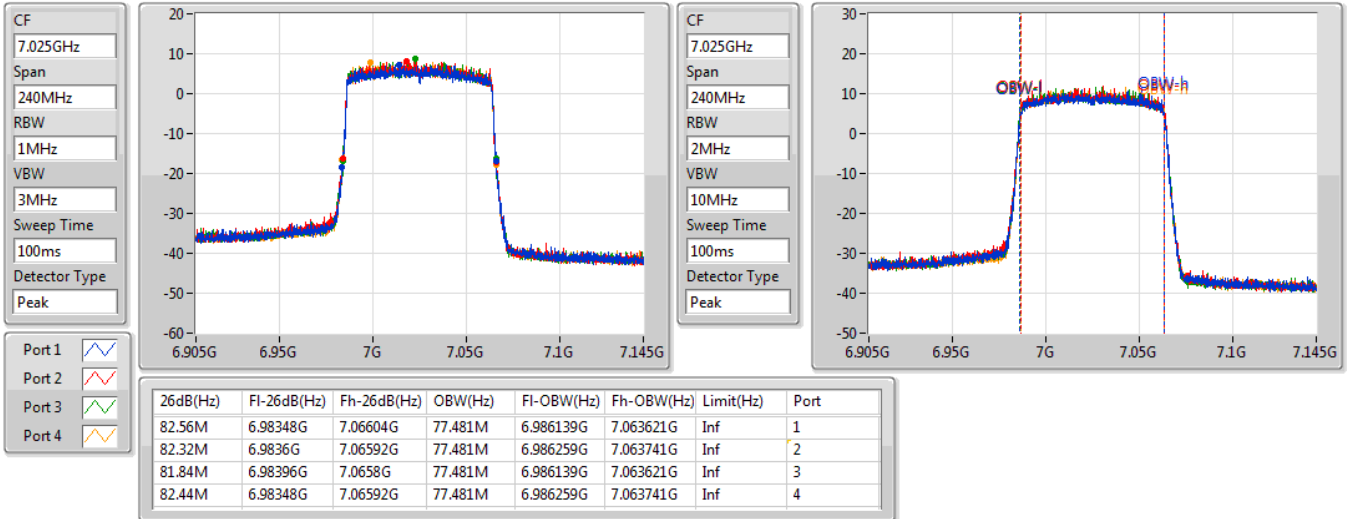
6945MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

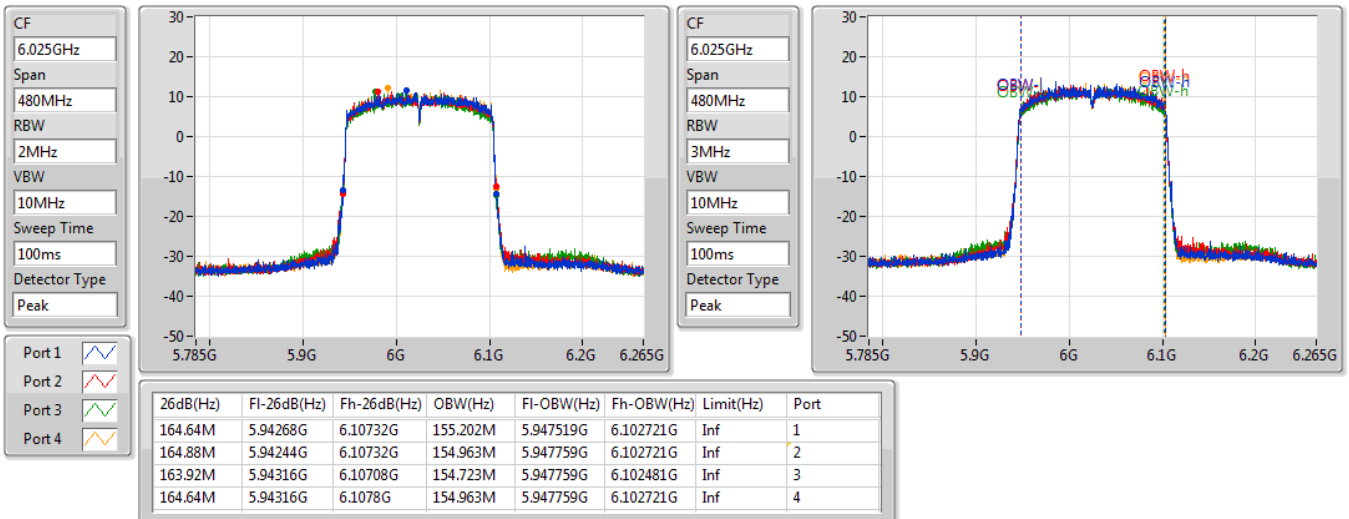
7025MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

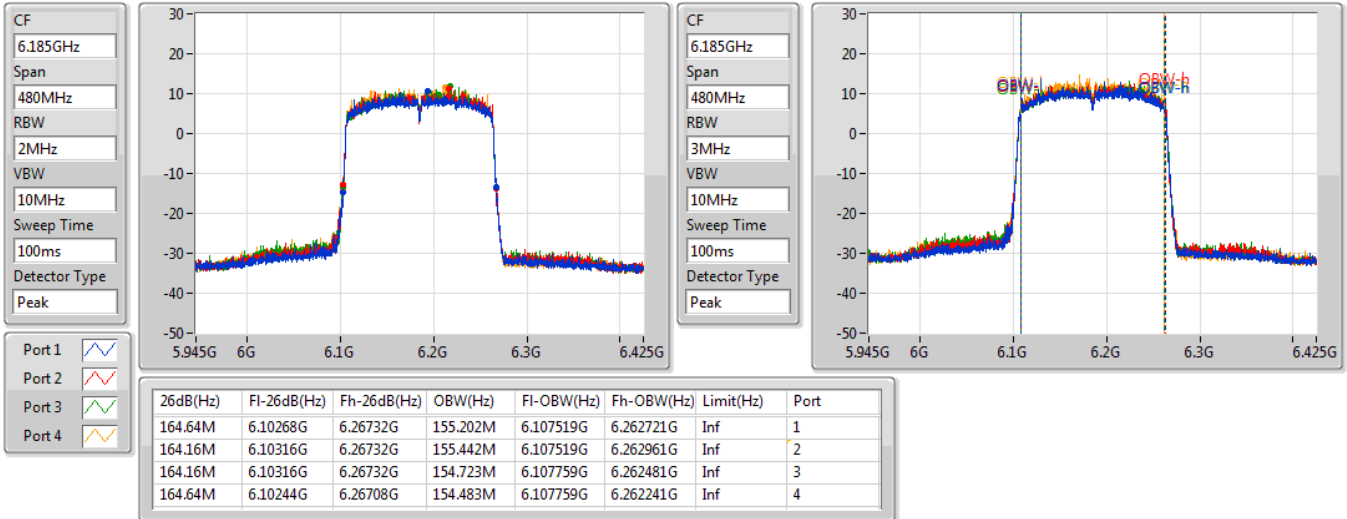
6025MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

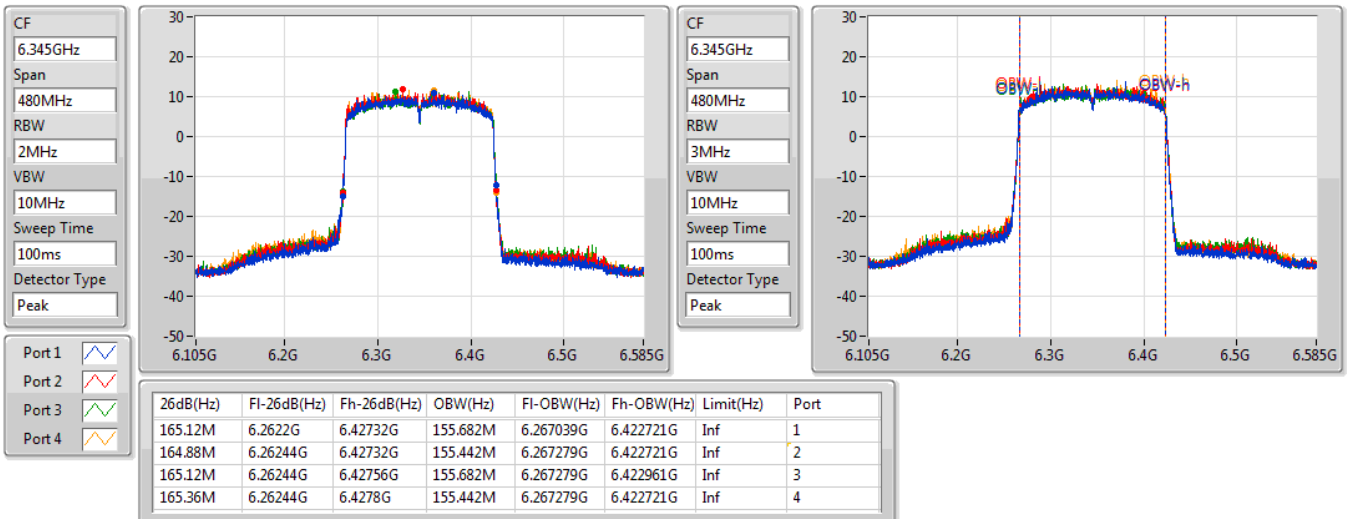
6185MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

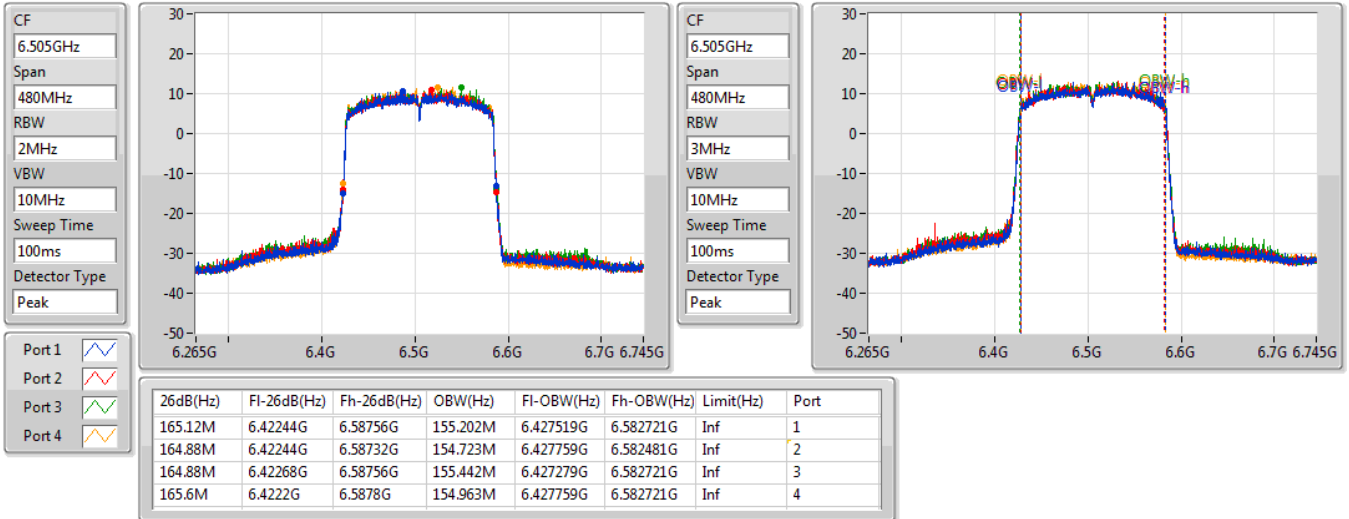
6345MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

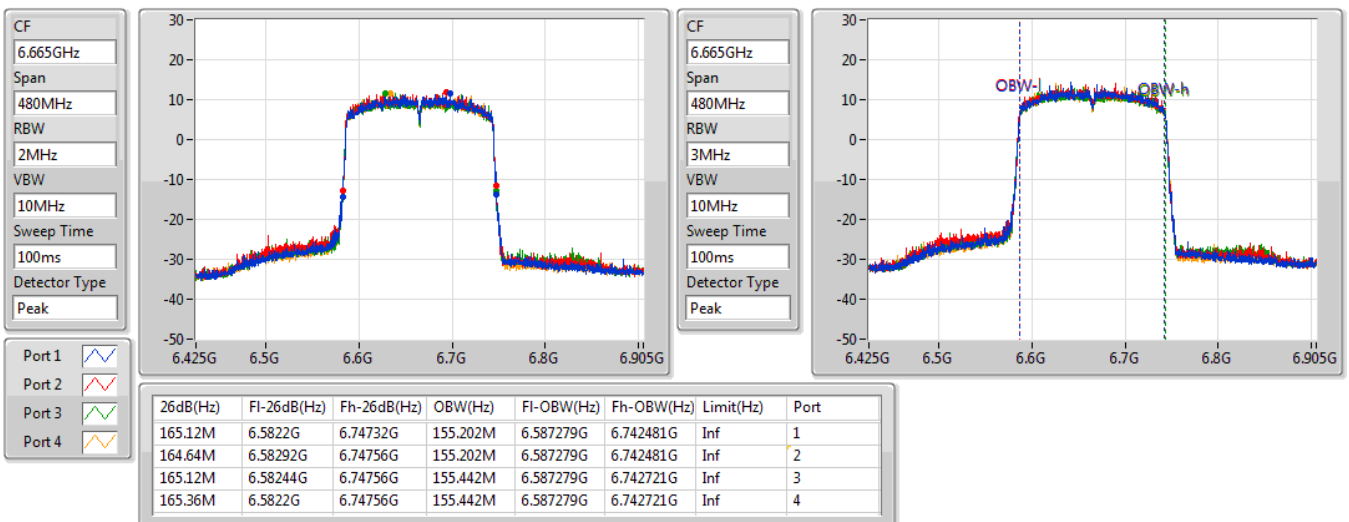
6505MHz Straddle 6.425-6.525GHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

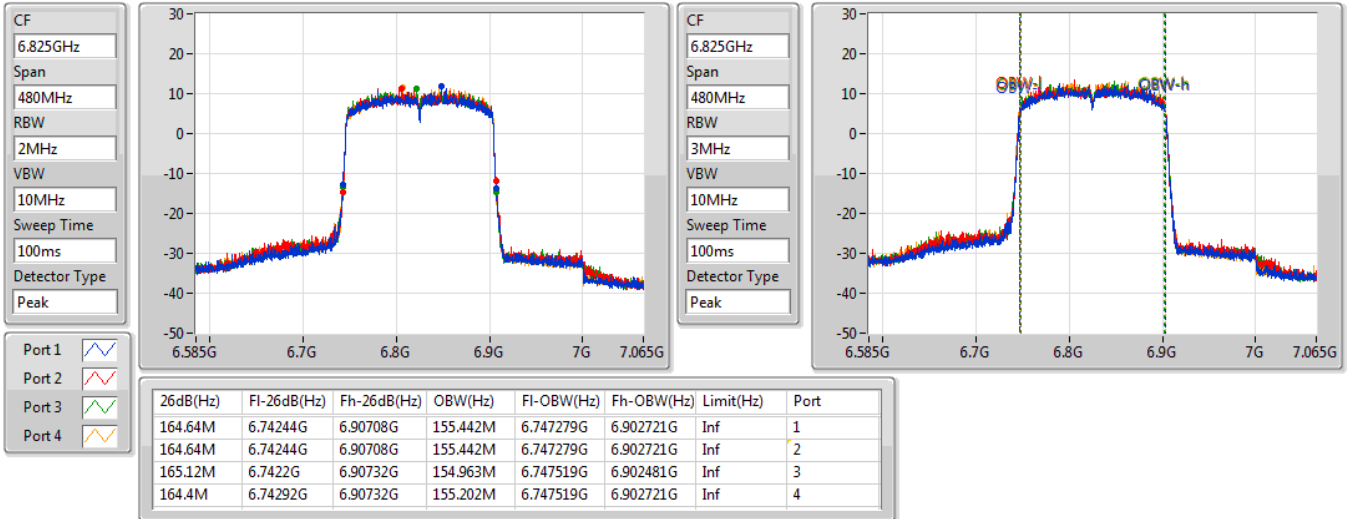
6665MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

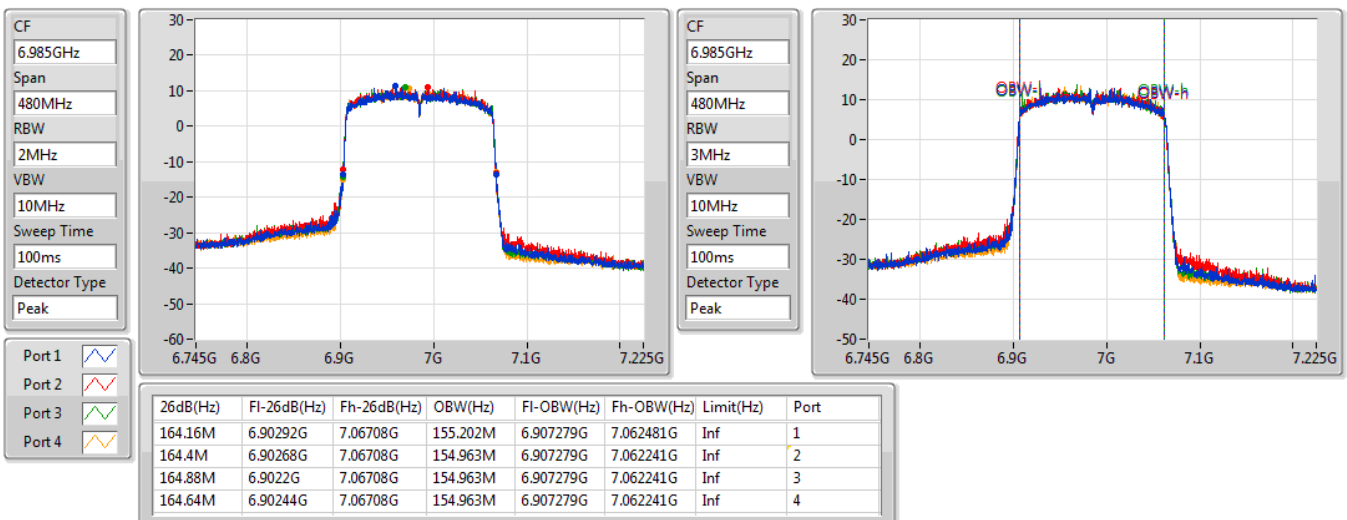
6825MHz Straddle 6.875-7.125GHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6985MHz



Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	8.66	0.00735	11.95	0.01567
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	11.81	0.01517	15.10	0.03236
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	14.50	0.02818	17.79	0.06012
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	17.18	0.05224	20.47	0.11143
6.425-6.525GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	8.70	0.00741	12.04	0.01600
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	11.60	0.01445	14.94	0.03119
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	14.38	0.02742	17.72	0.05916
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	17.00	0.05012	20.34	0.10814
6.525-6.875GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	9.52	0.00895	12.16	0.01644
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	12.54	0.01795	15.18	0.03296
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	15.05	0.03199	17.69	0.05875
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	17.45	0.05559	20.09	0.10209
6.875-7.125GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	9.10	0.00813	12.45	0.01758
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	11.91	0.01552	15.26	0.03357
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	14.78	0.03006	18.13	0.06501
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	17.07	0.05093	20.42	0.11015

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	-	-	-	-	-	-	-	-	-	-
5935MHz	Pass	3.29	-2.25	-2.2	-2.72	-2.19	3.69	Inf	6.98	30.00
5955MHz	Pass	3.29	2.38	2.87	2.34	2.95	8.66	Inf	11.95	30.00
6175MHz	Pass	3.29	1.54	2.11	2.27	3.21	8.35	Inf	11.64	30.00
6415MHz	Pass	3.29	1.8	2.13	2.54	3.03	8.42	Inf	11.71	30.00
6435MHz	Pass	3.34	2.14	2.19	3	3.29	8.70	Inf	12.04	30.00
6475MHz	Pass	3.34	1.81	1.84	2.39	2.73	8.23	Inf	11.57	30.00
6515MHz	Pass	3.34	2.3	2.2	2.46	3	8.52	Inf	11.86	30.00
6535MHz	Pass	2.64	2.86	3.03	3.04	3.56	9.15	Inf	11.79	30.00
6715MHz	Pass	2.64	3.37	3.79	3.44	3.4	9.52	Inf	12.16	30.00
6855MHz	Pass	2.64	3.1	3.04	3.49	3.63	9.34	Inf	11.98	30.00
6875MHz Straddle 6.875-7.125GHz	Pass	3.35	2.7	2.84	3.09	3.39	9.03	Inf	12.38	30.00
6895MHz	Pass	3.35	2.41	2.49	2.6	2.91	8.63	Inf	11.98	30.00
7015MHz	Pass	3.35	2.65	3.04	2.67	2.86	8.83	Inf	12.18	30.00
7095MHz	Pass	3.35	2.76	3.23	3.09	3.24	9.10	Inf	12.45	30.00
7115MHz	Pass	3.35	-3.14	-2.91	-3.17	-3.13	2.93	Inf	6.28	30.00
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	3.29	4.23	5.81	5.45	5.93	11.43	Inf	14.72	30.00
6165MHz	Pass	3.29	5.3	5.55	5.65	6.54	11.81	Inf	15.10	30.00
6405MHz	Pass	3.29	5.31	5.8	5.45	6.3	11.75	Inf	15.04	30.00
6445MHz	Pass	3.34	5.18	5.33	5.63	6.11	11.60	Inf	14.94	30.00
6485MHz	Pass	3.34	4.76	5.09	5.35	5.61	11.23	Inf	14.57	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	3.34	5.21	5.43	5.51	5.93	11.55	Inf	14.89	30.00
6565MHz	Pass	2.64	6.29	6.6	6.4	6.77	12.54	Inf	15.18	30.00
6725MHz	Pass	2.64	5.73	6.21	5.94	6	11.99	Inf	14.63	30.00
6845MHz	Pass	2.64	5.65	6.16	6.24	6.54	12.18	Inf	14.82	30.00
6885MHz Straddle 6.875-7.125GHz	Pass	3.35	5.13	5.34	5.41	5.74	11.43	Inf	14.78	30.00
6925MHz	Pass	3.35	5.29	5.63	5.54	5.6	11.54	Inf	14.89	30.00
7005MHz	Pass	3.35	5.7	6.44	5.67	5.71	11.91	Inf	15.26	30.00
7085MHz	Pass	3.35	5.32	5.76	5.65	5.76	11.65	Inf	15.00	30.00
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	3.29	8.21	8.66	8.3	8.73	14.50	Inf	17.79	30.00
6145MHz	Pass	3.29	7.61	8.06	8.13	9.07	14.27	Inf	17.56	30.00
6385MHz	Pass	3.29	7.73	8.19	8.3	8.8	14.29	Inf	17.58	30.00
6465MHz	Pass	3.34	7.9	8.3	8.39	8.79	14.38	Inf	17.72	30.00
6545MHz Straddle	Pass	3.34	7.73	8.03	7.81	8.43	14.03	Inf	17.37	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)
6.425-6.525GHz										
6625MHz	Pass	2.64	8.69	9.01	8.63	8.6	14.76	Inf	17.40	30.00
6705MHz	Pass	2.64	8.93	9.26	8.89	8.75	14.98	Inf	17.62	30.00
6785MHz	Pass	2.64	8.89	9.03	9.11	9.1	15.05	Inf	17.69	30.00
6865MHz Straddle 6.875-7.125GHz	Pass	3.35	7.89	8.16	8.4	8.7	14.32	Inf	17.67	30.00
6945MHz	Pass	3.35	8.36	8.43	8.41	8.56	14.46	Inf	17.81	30.00
7025MHz	Pass	3.35	8.53	8.85	8.71	8.95	14.78	Inf	18.13	30.00
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	3.29	11.19	11.27	10.69	11.11	17.09	Inf	20.38	30.00
6185MHz	Pass	3.29	10.1	10.54	10.64	11.35	16.70	Inf	19.99	30.00
6345MHz	Pass	3.29	10.84	11.39	10.97	11.41	17.18	Inf	20.47	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	3.34	10.72	10.91	11.06	11.2	17.00	Inf	20.34	30.00
6665MHz	Pass	2.64	11.54	11.69	11.19	11.26	17.45	Inf	20.09	30.00
6825MHz Straddle 6.875-7.125GHz	Pass	3.35	10.75	10.94	11.07	11.41	17.07	Inf	20.42	30.00
6985MHz	Pass	3.35	10.8	11.01	10.85	10.85	16.90	Inf	20.25	30.00

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

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

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5925 ~ 6425MHz	6425 ~ 6525MHz	6525 ~ 6875MHz	6875 ~ 7125MHz
1	3.01	4.21	3.55	4.02
2	3.38	2.56	2.74	3.95
3	4.07	3.3	2.51	3.12
4	2.54	3.14	1.52	2.04
Directional Gain (dBi)	3.29	3.34	2.64	3.35

Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	14.68	0.02938	17.97	0.06266
802.11ax HEW40_Nss4,(MCS0)_4TX	17.83	0.06067	21.12	0.12942
802.11ax HEW80_Nss4,(MCS0)_4TX	20.52	0.11272	23.81	0.24044
802.11ax HEW160_Nss4,(MCS0)_4TX	23.20	0.20893	26.49	0.44566
6.425-6.525GHz	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	14.72	0.02965	18.06	0.06397
802.11ax HEW40_Nss4,(MCS0)_4TX	17.62	0.05781	20.96	0.12474
802.11ax HEW80_Nss4,(MCS0)_4TX	20.40	0.10965	23.74	0.23659
802.11ax HEW160_Nss4,(MCS0)_4TX	23.02	0.20045	26.36	0.43251
6.525-6.875GHz	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	15.54	0.03581	18.18	0.06577
802.11ax HEW40_Nss4,(MCS0)_4TX	18.56	0.07178	21.20	0.13183
802.11ax HEW80_Nss4,(MCS0)_4TX	21.07	0.12794	23.71	0.23496
802.11ax HEW160_Nss4,(MCS0)_4TX	23.47	0.22233	26.11	0.40832
6.875-7.125GHz	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	15.12	0.03251	18.47	0.07031
802.11ax HEW40_Nss4,(MCS0)_4TX	17.93	0.06209	21.28	0.13428
802.11ax HEW80_Nss4,(MCS0)_4TX	20.80	0.12023	24.15	0.26002
802.11ax HEW160_Nss4,(MCS0)_4TX	23.09	0.20370	26.44	0.44055

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_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5935MHz	Pass	3.29	3.77	3.82	3.3	3.83	9.71	Inf	13.00	30.00
5955MHz	Pass	3.29	8.4	8.89	8.36	8.97	14.68	Inf	17.97	30.00
6175MHz	Pass	3.29	7.56	8.13	8.29	9.23	14.37	Inf	17.66	30.00
6415MHz	Pass	3.29	7.82	8.15	8.56	9.05	14.44	Inf	17.73	30.00
6435MHz	Pass	3.34	8.16	8.21	9.02	9.31	14.72	Inf	18.06	30.00
6475MHz	Pass	3.34	7.83	7.86	8.41	8.75	14.25	Inf	17.59	30.00
6515MHz	Pass	3.34	8.32	8.22	8.48	9.02	14.54	Inf	17.88	30.00
6535MHz	Pass	2.64	8.88	9.05	9.06	9.58	15.17	Inf	17.81	30.00
6715MHz	Pass	2.64	9.39	9.81	9.46	9.42	15.54	Inf	18.18	30.00
6855MHz	Pass	2.64	9.12	9.06	9.51	9.65	15.36	Inf	18.00	30.00
6875MHz Straddle 6.875-7.125GHz	Pass	3.35	8.72	8.86	9.11	9.41	15.05	Inf	18.40	30.00
6895MHz	Pass	3.35	8.43	8.51	8.62	8.93	14.65	Inf	18.00	30.00
7015MHz	Pass	3.35	8.67	9.06	8.69	8.88	14.85	Inf	18.20	30.00
7095MHz	Pass	3.35	8.78	9.25	9.11	9.26	15.12	Inf	18.47	30.00
7115MHz	Pass	3.35	2.88	3.11	2.85	2.89	8.95	Inf	12.30	30.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	3.29	10.25	11.83	11.47	11.95	17.45	Inf	20.74	30.00
6165MHz	Pass	3.29	11.32	11.57	11.67	12.56	17.83	Inf	21.12	30.00
6405MHz	Pass	3.29	11.33	11.82	11.47	12.32	17.77	Inf	21.06	30.00
6445MHz	Pass	3.34	11.2	11.35	11.65	12.13	17.62	Inf	20.96	30.00
6485MHz	Pass	3.34	10.78	11.11	11.37	11.63	17.25	Inf	20.59	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	3.34	11.23	11.45	11.53	11.95	17.57	Inf	20.91	30.00
6565MHz	Pass	2.64	12.31	12.62	12.42	12.79	18.56	Inf	21.20	30.00
6725MHz	Pass	2.64	11.75	12.23	11.96	12.02	18.01	Inf	20.65	30.00
6845MHz	Pass	2.64	11.67	12.18	12.26	12.56	18.20	Inf	20.84	30.00
6885MHz Straddle 6.875-7.125GHz	Pass	3.35	11.15	11.36	11.43	11.76	17.45	Inf	20.80	30.00
6925MHz	Pass	3.35	11.31	11.65	11.56	11.62	17.56	Inf	20.91	30.00
7005MHz	Pass	3.35	11.72	12.46	11.69	11.73	17.93	Inf	21.28	30.00
7085MHz	Pass	3.35	11.34	11.78	11.67	11.78	17.67	Inf	21.02	30.00
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	3.29	14.23	14.68	14.32	14.75	20.52	Inf	23.81	30.00
6145MHz	Pass	3.29	13.63	14.08	14.15	15.09	20.29	Inf	23.58	30.00
6385MHz	Pass	3.29	13.75	14.21	14.32	14.82	20.31	Inf	23.60	30.00
6465MHz	Pass	3.34	13.92	14.32	14.41	14.81	20.40	Inf	23.74	30.00
6545MHz Straddle	Pass	3.34	13.75	14.05	13.83	14.45	20.05	Inf	23.39	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)
6.425-6.525GHz										
6625MHz	Pass	2.64	14.71	15.03	14.65	14.62	20.78	Inf	23.42	30.00
6705MHz	Pass	2.64	14.95	15.28	14.91	14.77	21.00	Inf	23.64	30.00
6785MHz	Pass	2.64	14.91	15.05	15.13	15.12	21.07	Inf	23.71	30.00
6865MHz Straddle 6.875-7.125GHz	Pass	3.35	13.91	14.18	14.42	14.72	20.34	Inf	23.69	30.00
6945MHz	Pass	3.35	14.38	14.45	14.43	14.58	20.48	Inf	23.83	30.00
7025MHz	Pass	3.35	14.55	14.87	14.73	14.97	20.80	Inf	24.15	30.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	3.29	17.21	17.29	16.71	17.13	23.11	Inf	26.40	30.00
6185MHz	Pass	3.29	16.12	16.56	16.66	17.37	22.72	Inf	26.01	30.00
6345MHz	Pass	3.29	16.86	17.41	16.99	17.43	23.20	Inf	26.49	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	3.34	16.74	16.93	17.08	17.22	23.02	Inf	26.36	30.00
6665MHz	Pass	2.64	17.56	17.71	17.21	17.28	23.47	Inf	26.11	30.00
6825MHz Straddle 6.875-7.125GHz	Pass	3.35	16.77	16.96	17.09	17.43	23.09	Inf	26.44	30.00
6985MHz	Pass	3.35	16.82	17.03	16.87	16.87	22.92	Inf	26.27	30.00

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

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

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5925 ~ 6425MHz	6425 ~ 6525MHz	6525 ~ 6875MHz	6875 ~ 7125MHz
1	3.01	4.21	3.55	4.02
2	3.38	2.56	2.74	3.95
3	4.07	3.3	2.51	3.12
4	2.54	3.14	1.52	2.04
Directional Gain (dBi)	3.29	3.34	2.64	3.35

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.925-6.425GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	1.53	4.82
802.11ax HEW40_Nss4,(MCS0)_4TX	1.64	4.93
802.11ax HEW80_Nss4,(MCS0)_4TX	1.62	4.91
802.11ax HEW160_Nss4,(MCS0)_4TX	1.48	4.77
6.425-6.525GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	1.56	4.90
802.11ax HEW40_Nss4,(MCS0)_4TX	1.37	4.71
802.11ax HEW80_Nss4,(MCS0)_4TX	1.36	4.70
802.11ax HEW160_Nss4,(MCS0)_4TX	1.35	4.69
6.525-6.875GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	2.23	4.87
802.11ax HEW40_Nss4,(MCS0)_4TX	2.21	4.85
802.11ax HEW80_Nss4,(MCS0)_4TX	2.19	4.83
802.11ax HEW160_Nss4,(MCS0)_4TX	1.80	4.44
6.875-7.125GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	1.55	4.90
802.11ax HEW40_Nss4,(MCS0)_4TX	1.41	4.76
802.11ax HEW80_Nss4,(MCS0)_4TX	1.59	4.94
802.11ax HEW160_Nss4,(MCS0)_4TX	1.33	4.68

RBW = 1MHz

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)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5935MHz	Pass	3.29	-9.25	-8.59	-9.11	-8.76	-3.33	Inf	-0.04	5.00
5955MHz	Pass	3.29	-4.87	-4.32	-4.68	-4.46	1.35	Inf	4.64	5.00
6175MHz	Pass	3.29	-5.19	-4.51	-4.40	-3.35	1.38	Inf	4.67	5.00
6415MHz	Pass	3.29	-5.05	-4.60	-4.23	-3.24	1.53	Inf	4.82	5.00
6435MHz	Pass	3.34	-5.18	-4.97	-4.08	-3.86	1.37	Inf	4.71	5.00
6475MHz	Pass	3.34	-5.12	-5.14	-4.43	-4.21	1.13	Inf	4.47	5.00
6515MHz	Pass	3.34	-4.55	-4.43	-4.31	-3.50	1.56	Inf	4.90	5.00
6535MHz	Pass	2.64	-4.22	-4.09	-4.22	-3.63	1.84	Inf	4.48	5.00
6715MHz	Pass	2.64	-3.97	-3.58	-3.82	-3.82	2.03	Inf	4.67	5.00
6855MHz	Pass	2.64	-3.96	-3.68	-3.37	-3.13	2.23	Inf	4.87	5.00
6875MHz Straddle 6.875-7.125GHz	Pass	3.35	-4.69	-4.51	-4.02	-3.86	1.55	Inf	4.90	5.00
6895MHz	Pass	3.35	-4.63	-4.45	-4.47	-4.01	1.41	Inf	4.76	5.00
7015MHz	Pass	3.35	-4.74	-4.11	-4.47	-4.33	1.48	Inf	4.83	5.00
7095MHz	Pass	3.35	-4.75	-4.29	-4.38	-4.21	1.54	Inf	4.89	5.00
7115MHz	Pass	3.35	-10.58	-10.56	-10.79	-10.65	-4.68	Inf	-1.33	5.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	3.29	-4.50	-3.88	-4.47	-3.92	1.64	Inf	4.93	5.00
6165MHz	Pass	3.29	-4.70	-4.29	-4.34	-3.43	1.50	Inf	4.79	5.00
6405MHz	Pass	3.29	-4.66	-4.25	-4.50	-3.63	1.52	Inf	4.81	5.00
6445MHz	Pass	3.34	-4.71	-4.40	-4.27	-3.90	1.37	Inf	4.71	5.00
6485MHz	Pass	3.34	-5.13	-4.73	-4.53	-4.13	1.23	Inf	4.57	5.00
6525MHz Straddle 6.425-6.525GHz	Pass	3.34	-4.59	-4.45	-4.55	-3.97	1.32	Inf	4.66	5.00
6565MHz	Pass	2.64	-3.84	-3.23	-3.59	-3.19	2.21	Inf	4.85	5.00
6725MHz	Pass	2.64	-4.06	-3.69	-3.96	-3.91	1.91	Inf	4.55	5.00
6845MHz	Pass	2.64	-4.55	-4.00	-3.75	-3.54	1.86	Inf	4.50	5.00
6885MHz Straddle 6.875-7.125GHz	Pass	3.35	-5.06	-4.47	-4.75	-4.10	1.14	Inf	4.49	5.00
6925MHz	Pass	3.35	-4.88	-4.45	-4.41	-4.38	1.17	Inf	4.52	5.00
7005MHz	Pass	3.35	-4.69	-3.99	-4.66	-4.60	1.41	Inf	4.76	5.00
7085MHz	Pass	3.35	-4.85	-4.45	-4.41	-4.44	1.38	Inf	4.73	5.00
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	3.29	-4.69	-4.01	-4.35	-3.92	1.62	Inf	4.91	5.00
6145MHz	Pass	3.29	-5.02	-4.37	-4.13	-3.18	1.49	Inf	4.78	5.00
6385MHz	Pass	3.29	-4.79	-4.35	-4.19	-3.75	1.38	Inf	4.67	5.00
6465MHz	Pass	3.34	-5.13	-4.56	-4.29	-4.08	1.36	Inf	4.70	5.00
6545MHz Straddle 6.425-6.525GHz	Pass	3.34	-4.80	-4.44	-4.82	-3.89	1.14	Inf	4.48	5.00

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)
6625MHz	Pass	2.64	-3.79	-3.33	-3.95	-3.79	1.91	Inf	4.55	5.00
6705MHz	Pass	2.64	-3.84	-3.54	-4.02	-4.13	1.90	Inf	4.54	5.00
6785MHz	Pass	2.64	-3.79	-3.43	-3.48	-3.41	2.19	Inf	4.83	5.00
6865MHz Straddle 6.875-7.125GHz	Pass	3.35	-4.85	-4.54	-4.29	-3.99	1.38	Inf	4.73	5.00
6945MHz	Pass	3.35	-4.47	-4.39	-4.41	-4.40	1.46	Inf	4.81	5.00
7025MHz	Pass	3.35	-4.52	-4.15	-4.37	-4.23	1.59	Inf	4.94	5.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	3.29	-4.24	-4.17	-4.54	-3.91	1.48	Inf	4.77	5.00
6185MHz	Pass	3.29	-5.25	-4.73	-4.49	-3.78	1.16	Inf	4.45	5.00
6345MHz	Pass	3.29	-4.56	-3.90	-4.45	-4.26	1.34	Inf	4.63	5.00
6505MHz Straddle 6.425-6.525GHz	Pass	3.34	-4.61	-4.51	-4.26	-4.01	1.35	Inf	4.69	5.00
6665MHz	Pass	2.64	-3.70	-3.55	-3.98	-4.11	1.80	Inf	4.44	5.00
6825MHz Straddle 6.875-7.125GHz	Pass	3.35	-4.76	-4.47	-4.36	-3.92	1.33	Inf	4.68	5.00
6985MHz	Pass	3.35	-4.65	-4.40	-4.80	-4.55	1.14	Inf	4.49	5.00

DG = Directional Gain; RBW =1MHz

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

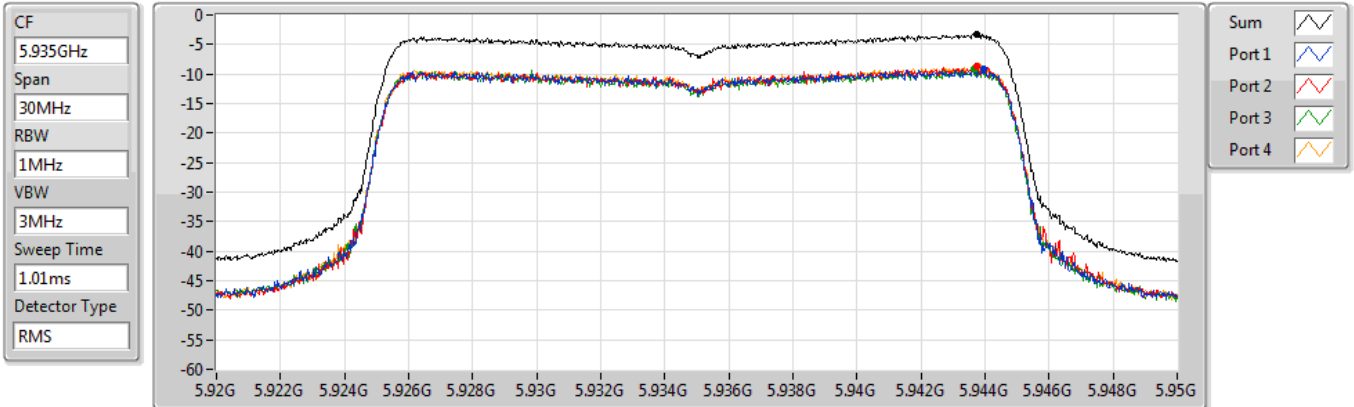
Directional Gain = $10 \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5925 ~ 6425MHz	6425 ~ 6525MHz	6525 ~ 6875MHz	6875 ~ 7125MHz
1	3.01	4.21	3.55	4.02
2	3.38	2.56	2.74	3.95
3	4.07	3.3	2.51	3.12
4	2.54	3.14	1.52	2.04
Directional Gain (dBi)	3.29	3.34	2.64	3.35

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5935MHz

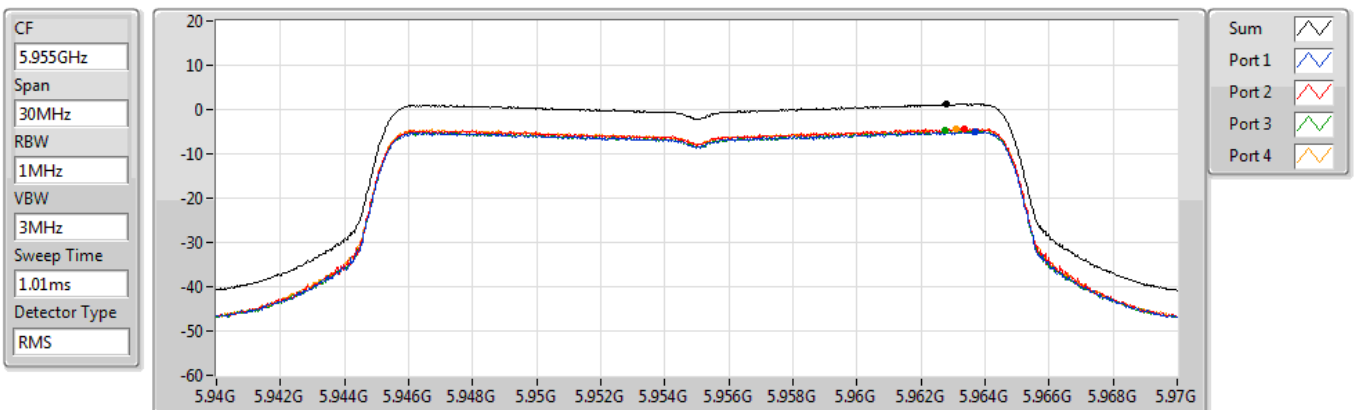


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.33	-3.33	-9.25	-8.59	-9.11	-8.76

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5955MHz

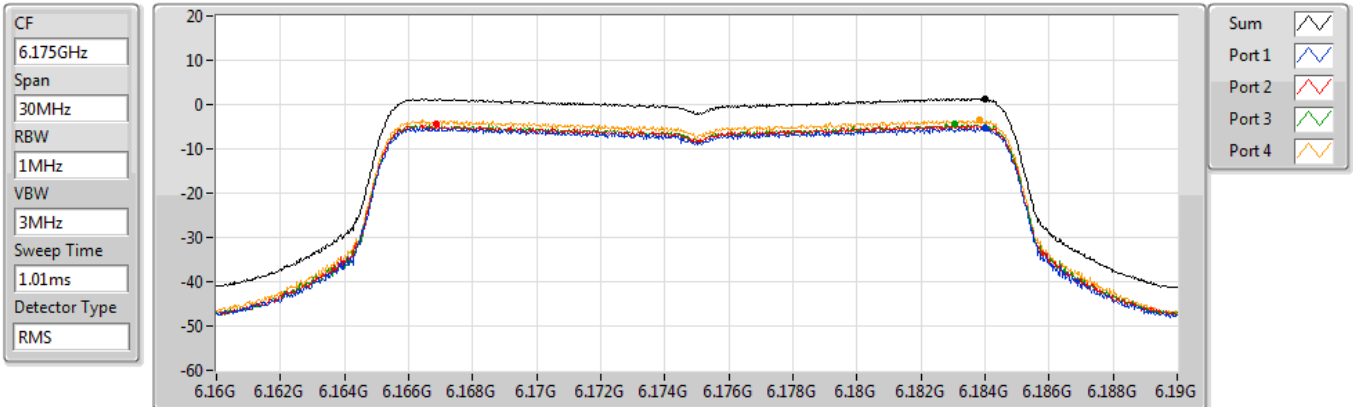


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.35	1.35	-4.87	-4.32	-4.68	-4.46

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

6175MHz

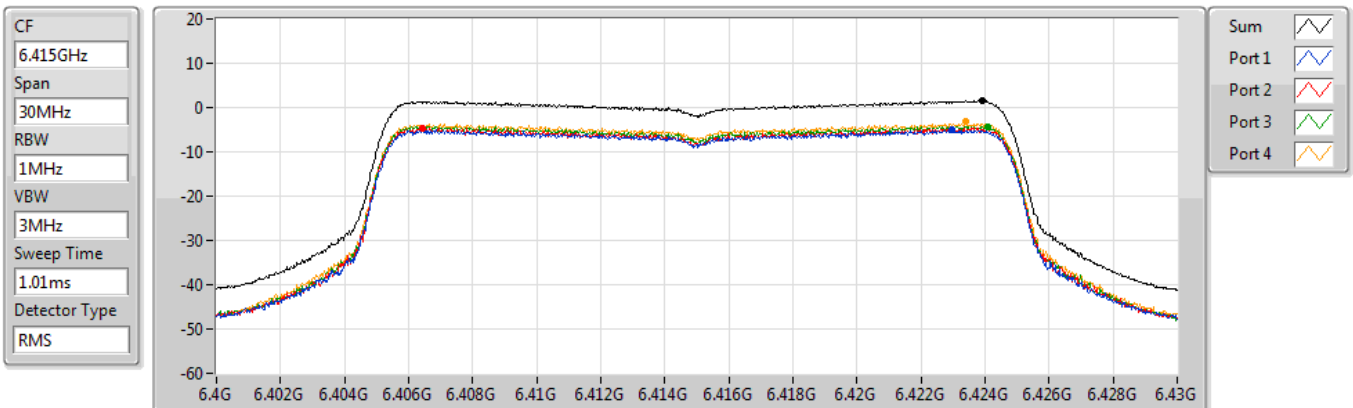


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.38	1.38	-5.19	-4.51	-4.40	-3.35

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

6415MHz

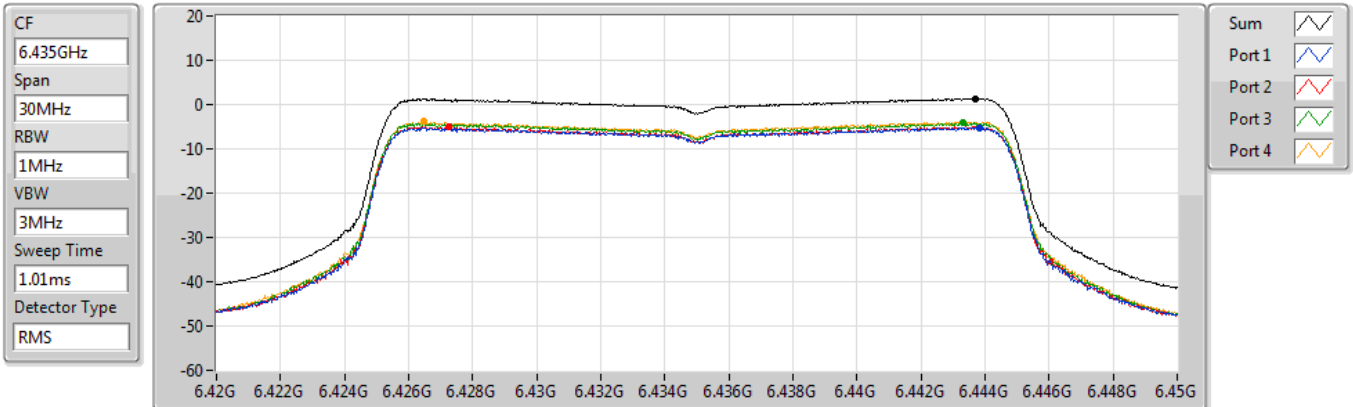


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.53	1.53	-5.05	-4.60	-4.23	-3.24

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

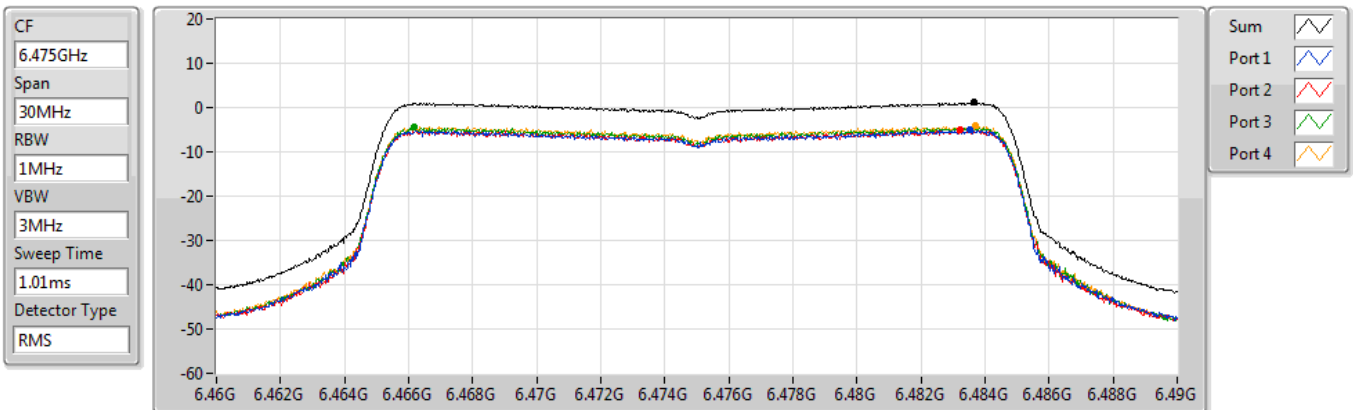
6435MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

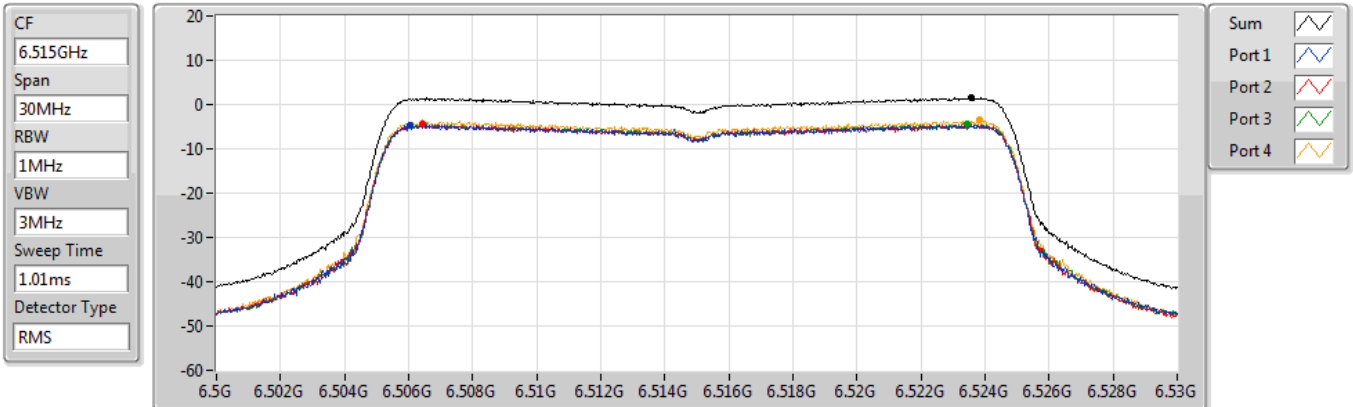
6475MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

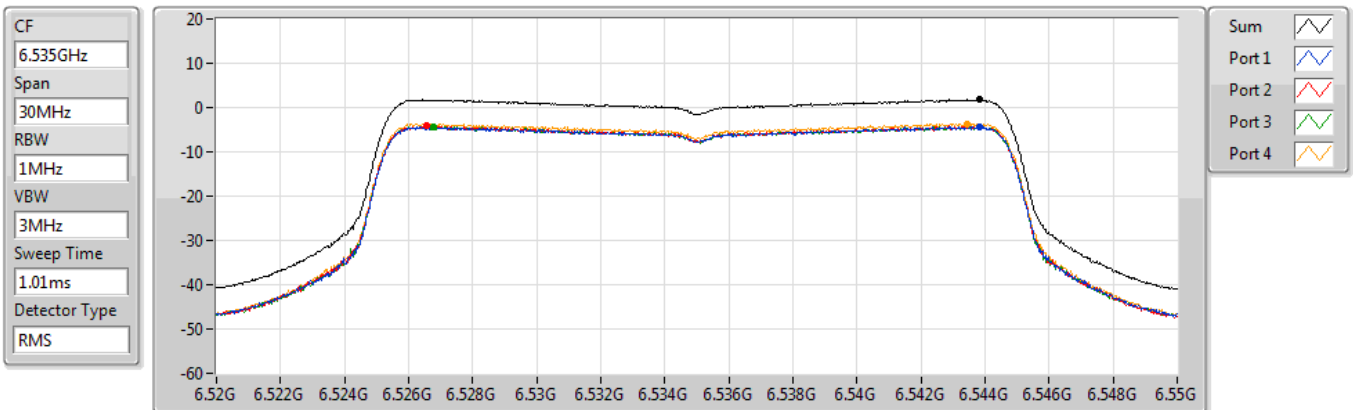
6515MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

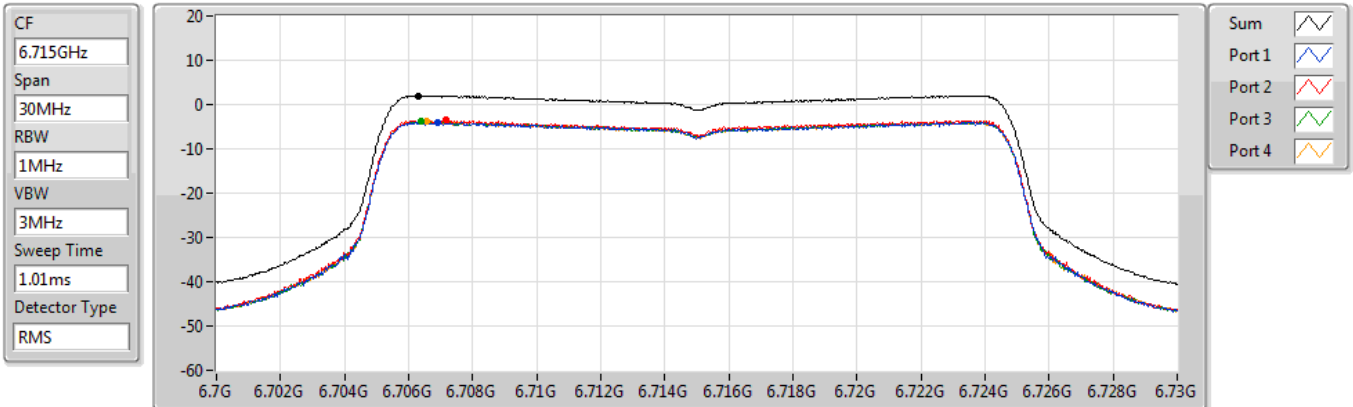
6535MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

6715MHz

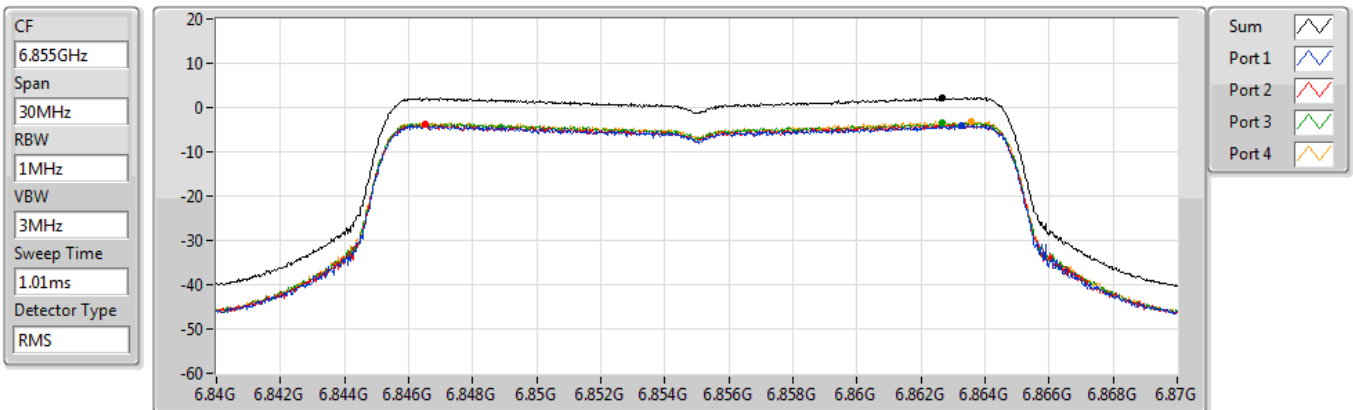


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.03	2.03	-3.97	-3.58	-3.82	-3.82

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

6855MHz

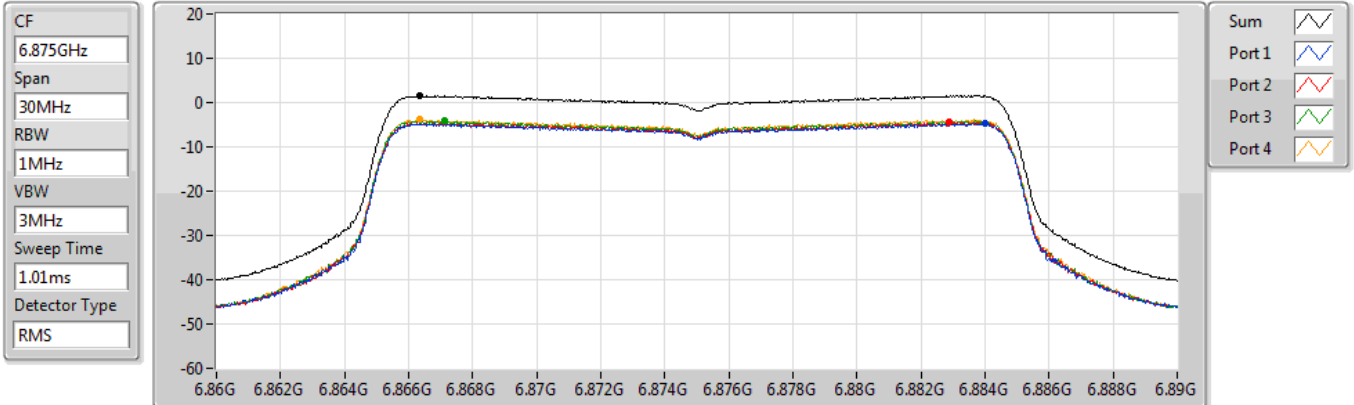


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.23	2.23	-3.96	-3.68	-3.37	-3.13

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

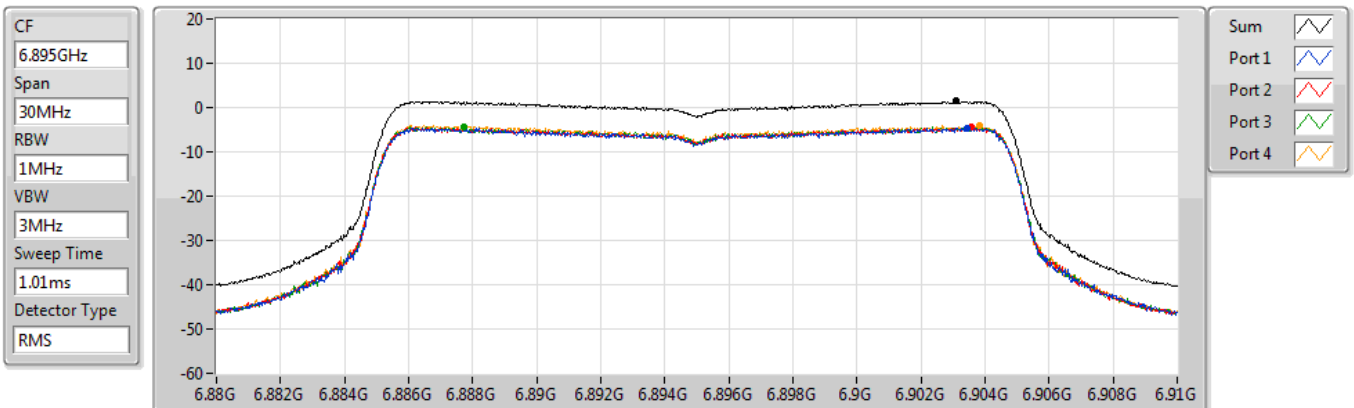
6875MHz Straddle 6.875-7.125GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

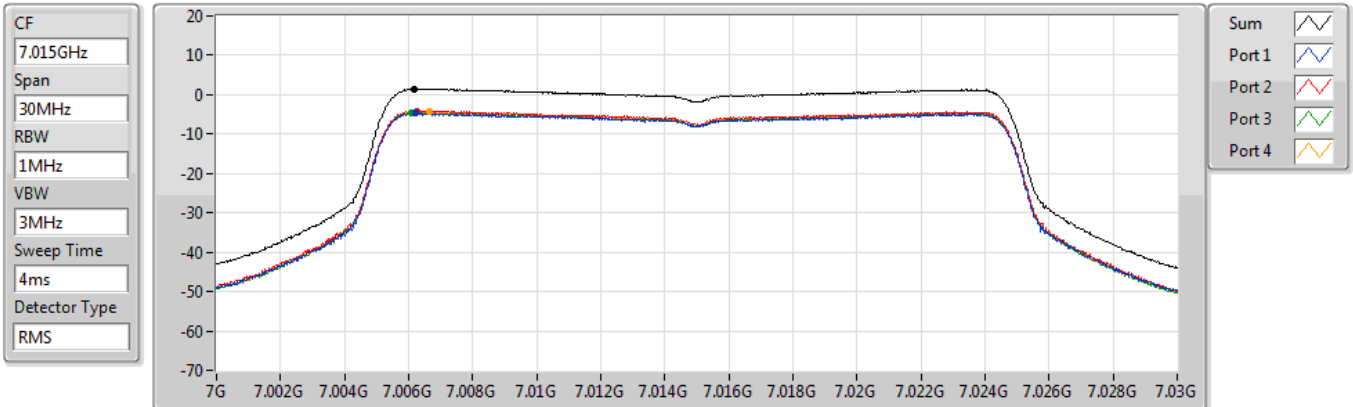
6895MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

7015MHz

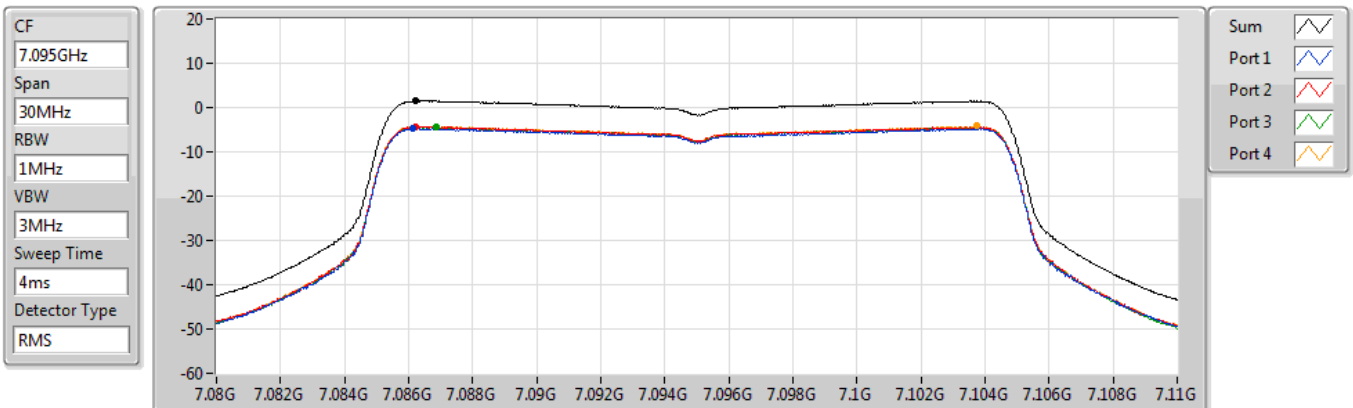


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.48	1.48	-4.74	-4.11	-4.47	-4.33

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

7095MHz

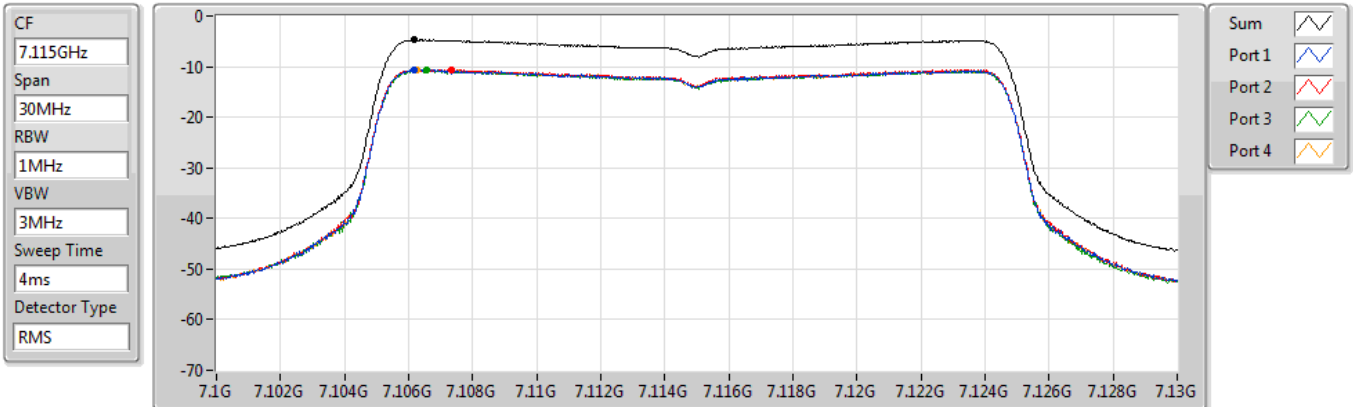


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.54	1.54	-4.75	-4.29	-4.38	-4.21

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

7115MHz

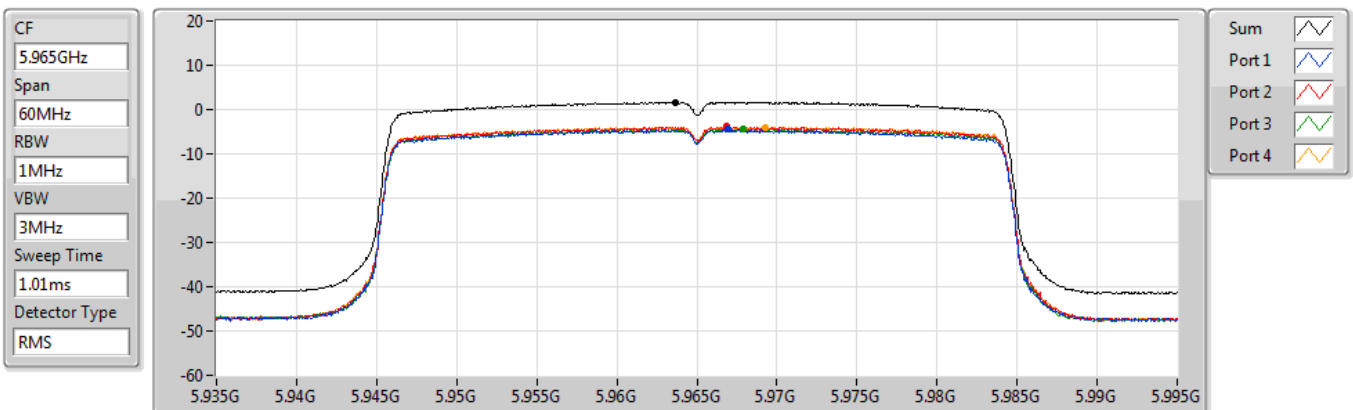


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.68	-4.68	-10.58	-10.56	-10.79	-10.65

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5965MHz

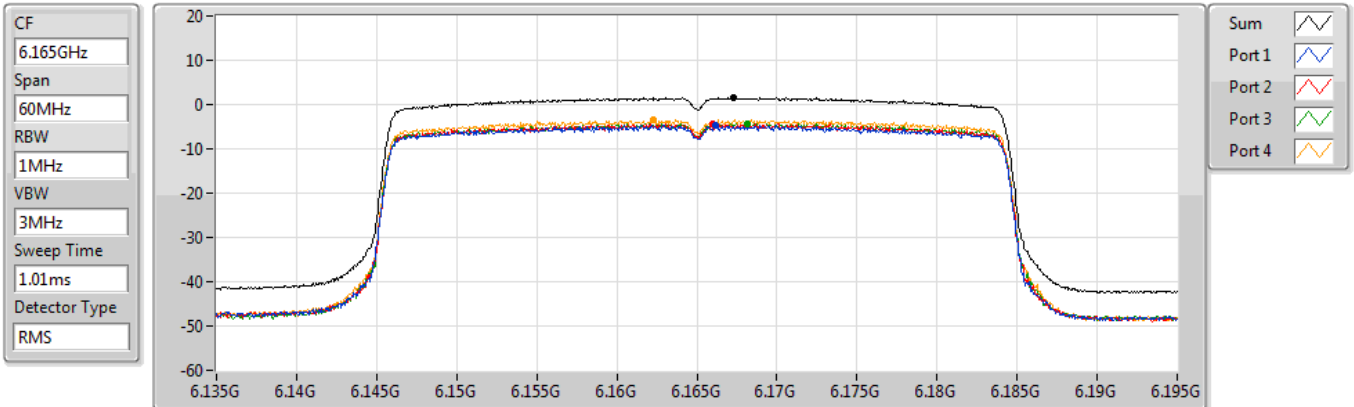


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.64	1.64	-4.50	-3.88	-4.47	-3.92

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6165MHz

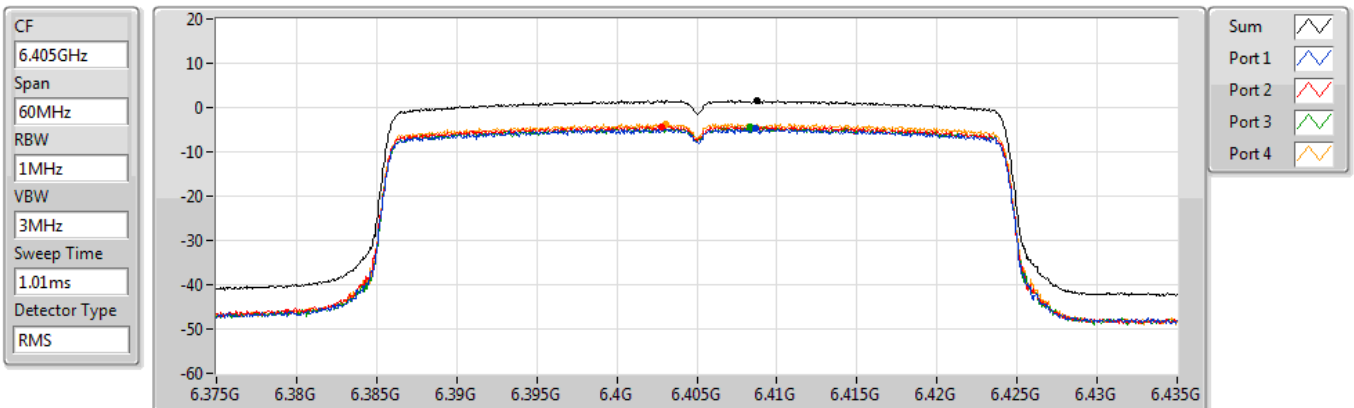


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.50	1.50	-4.70	-4.29	-4.34	-3.43

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6405MHz

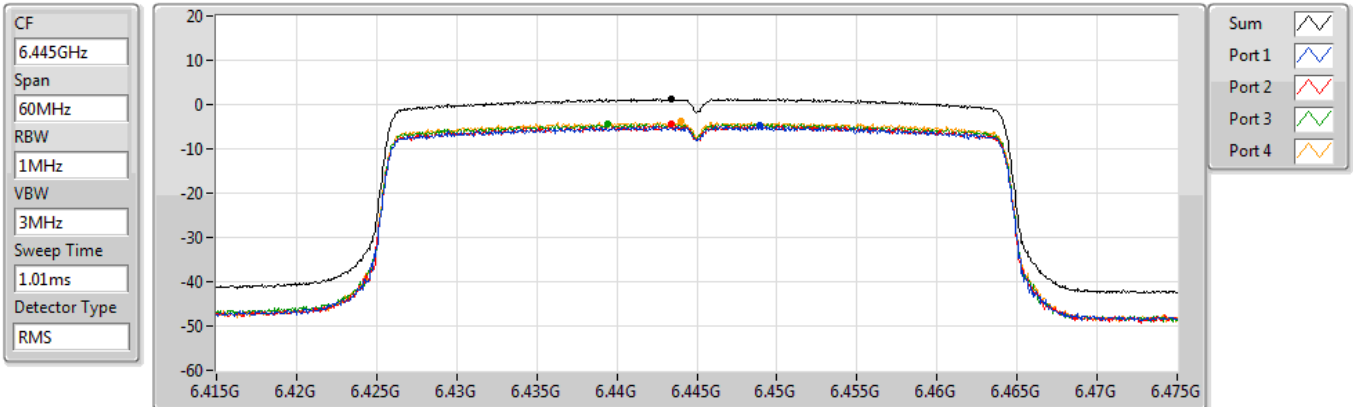


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.52	1.52	-4.66	-4.25	-4.50	-3.63

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6445MHz

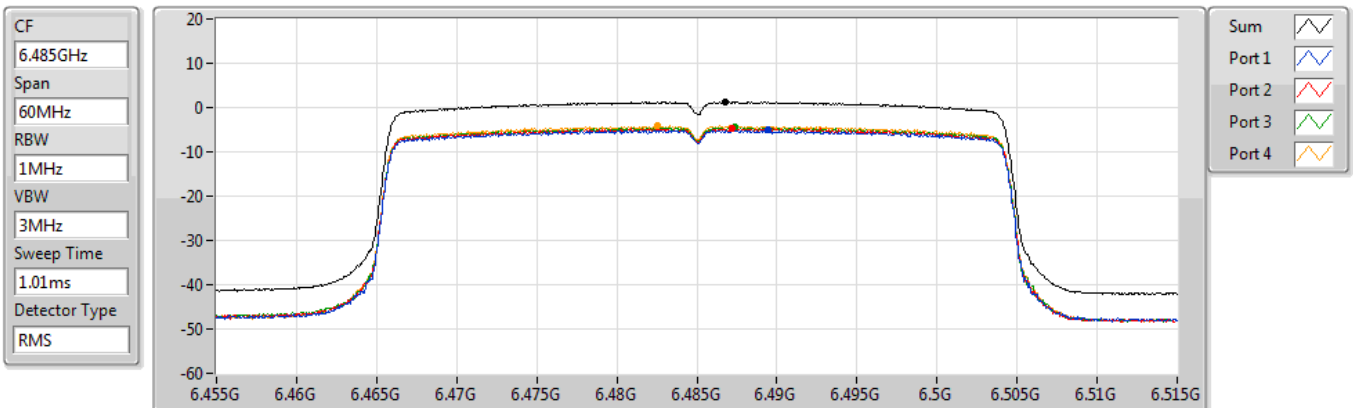


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.37	1.37	-4.71	-4.40	-4.27	-3.90

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6485MHz

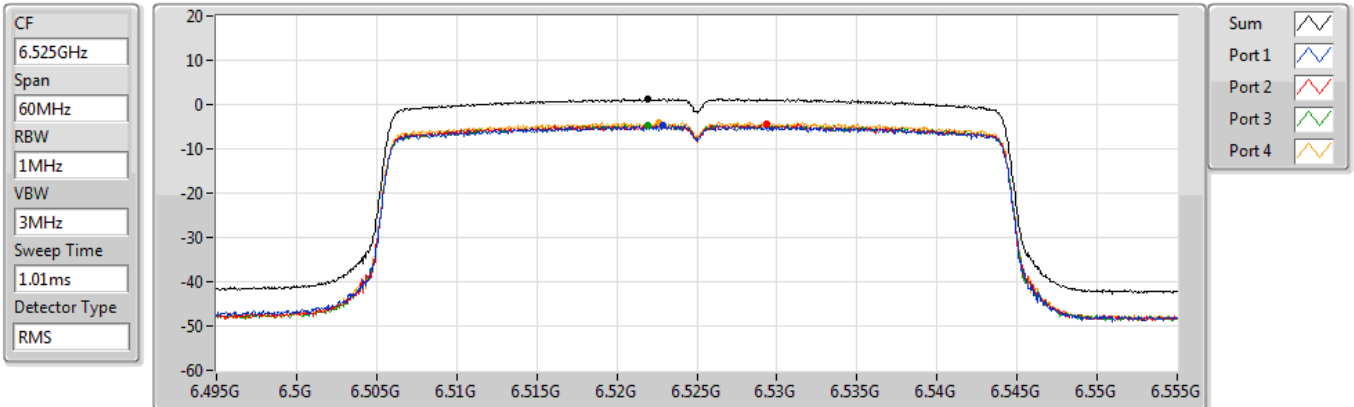


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.23	1.23	-5.13	-4.73	-4.53	-4.13

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6525MHz Straddle 6.425-6.525GHz

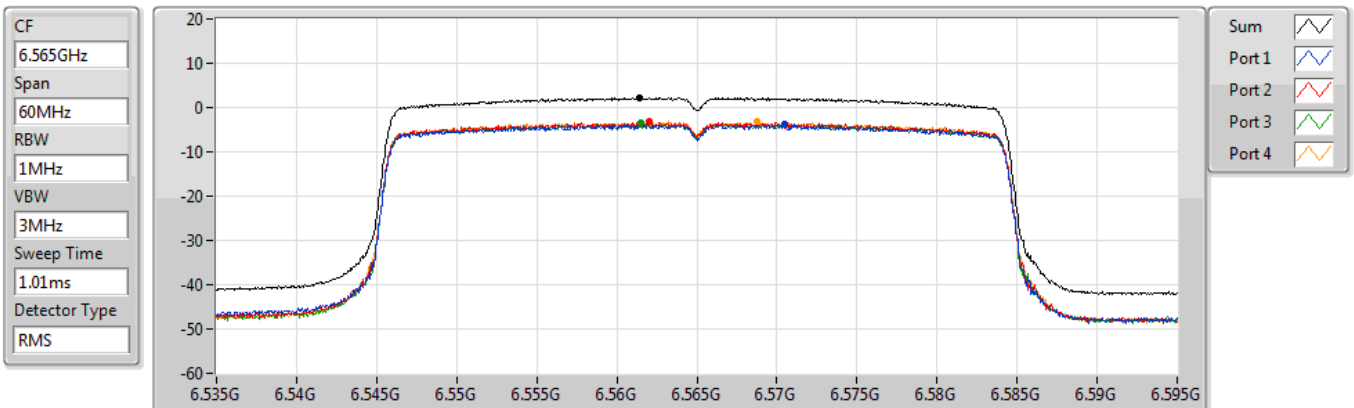


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
1.32	1.32	-4.59	-4.45	-4.55	-3.97

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6565MHz

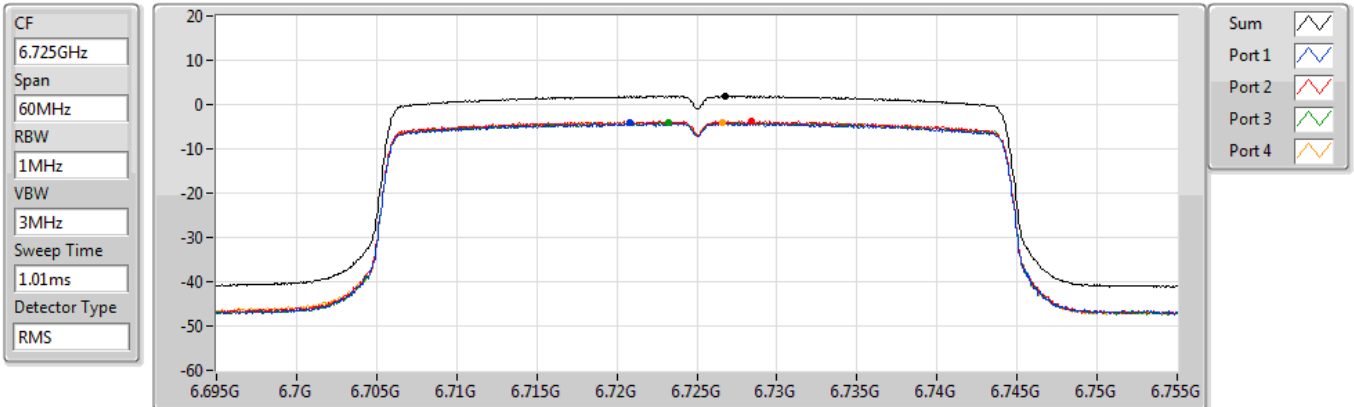


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
2.21	2.21	-3.84	-3.23	-3.59	-3.19

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

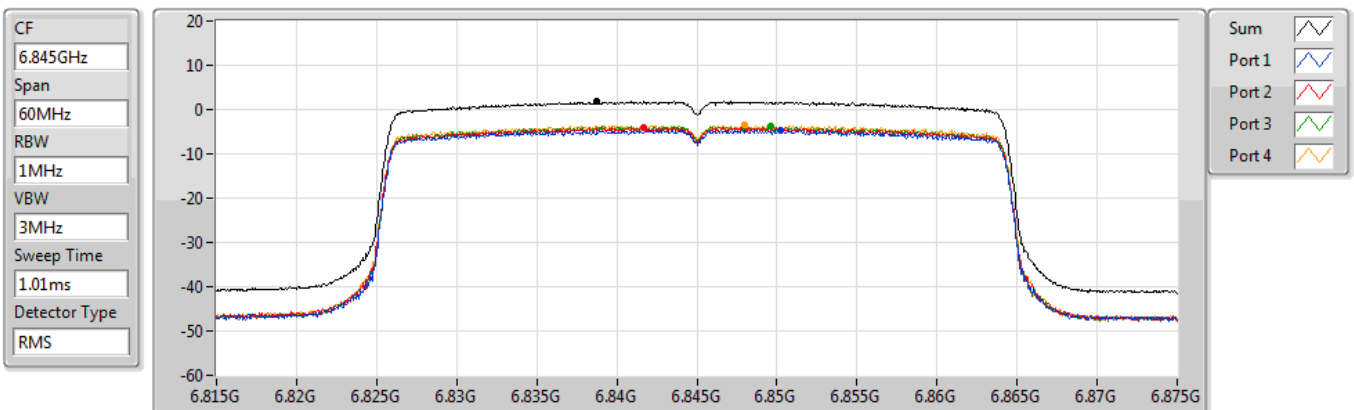
6725MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

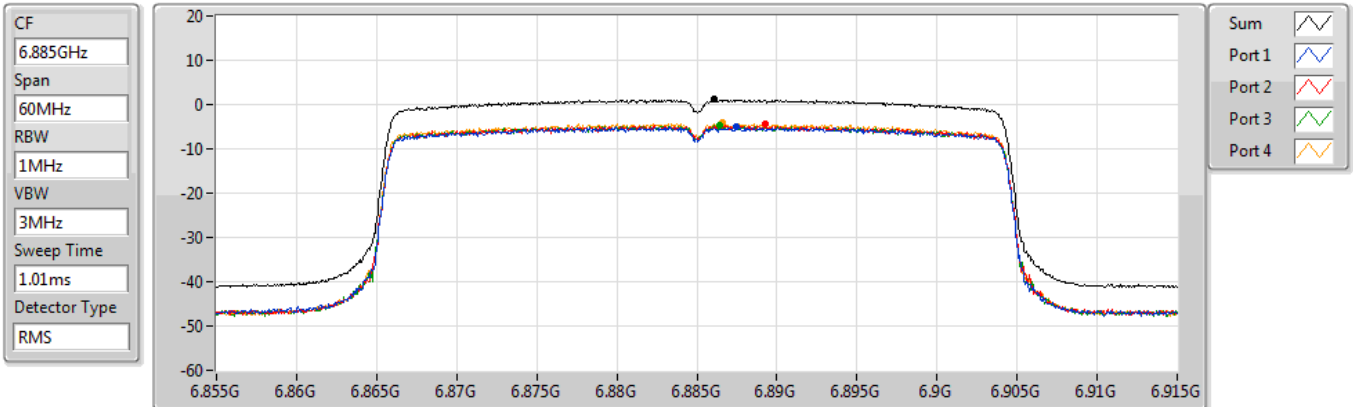
6845MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6885MHz Straddle 6.875-7.125GHz

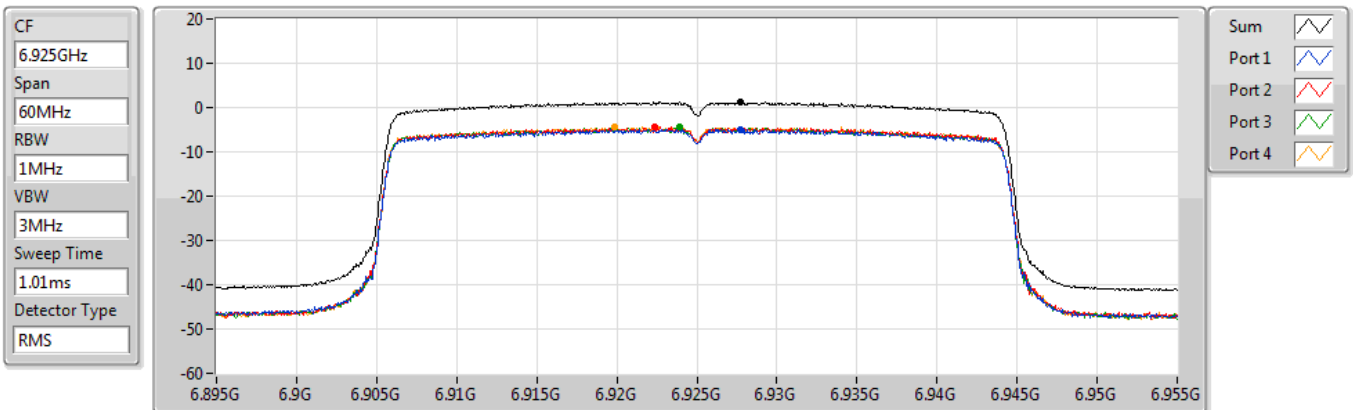


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)
1.14	1.14	-5.06	-4.47	-4.75	-4.10

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6925MHz

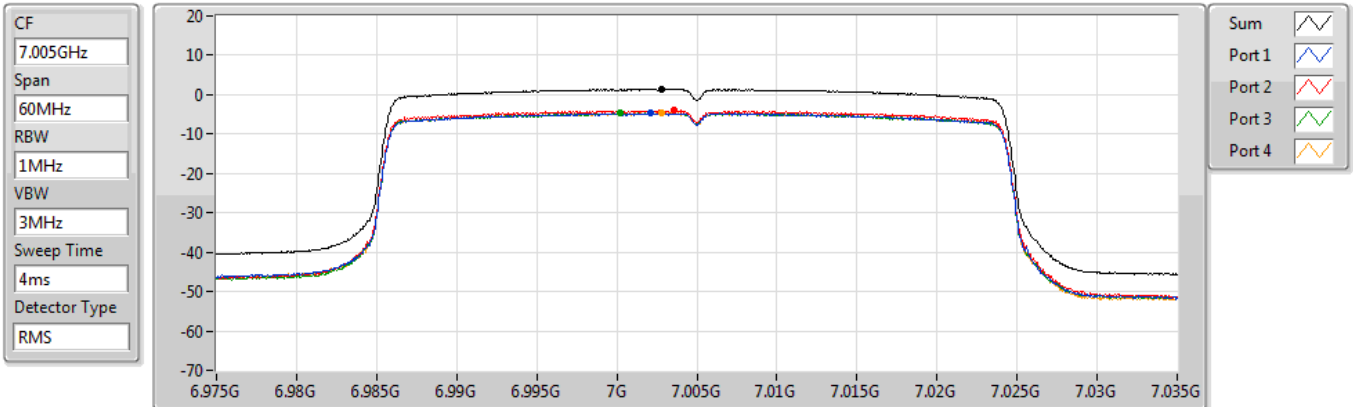


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)	(dBm/100MHz)
1.17	1.17	-4.88	-4.45	-4.41	-4.38

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

7005MHz

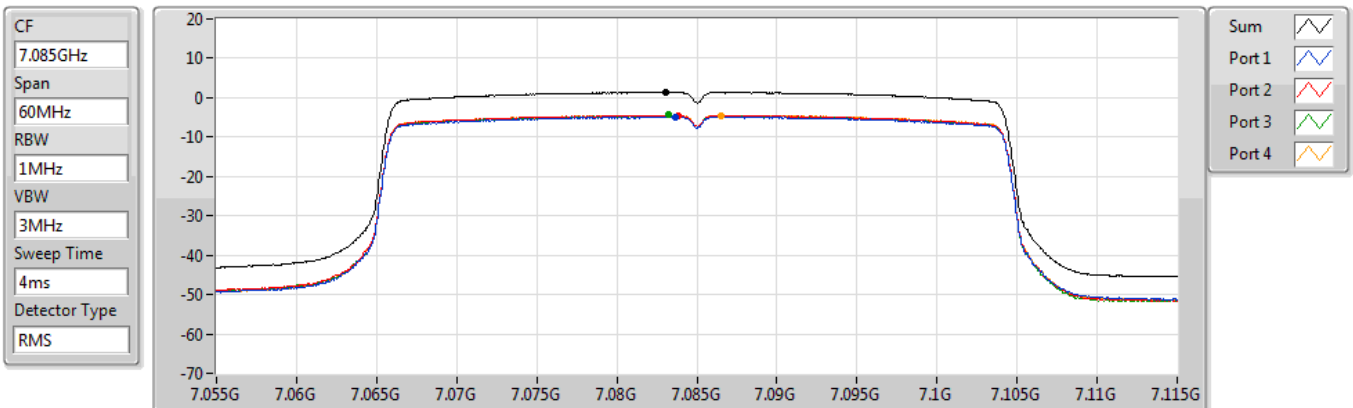


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.41	1.41	-4.69	-3.99	-4.66	-4.60

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

7085MHz

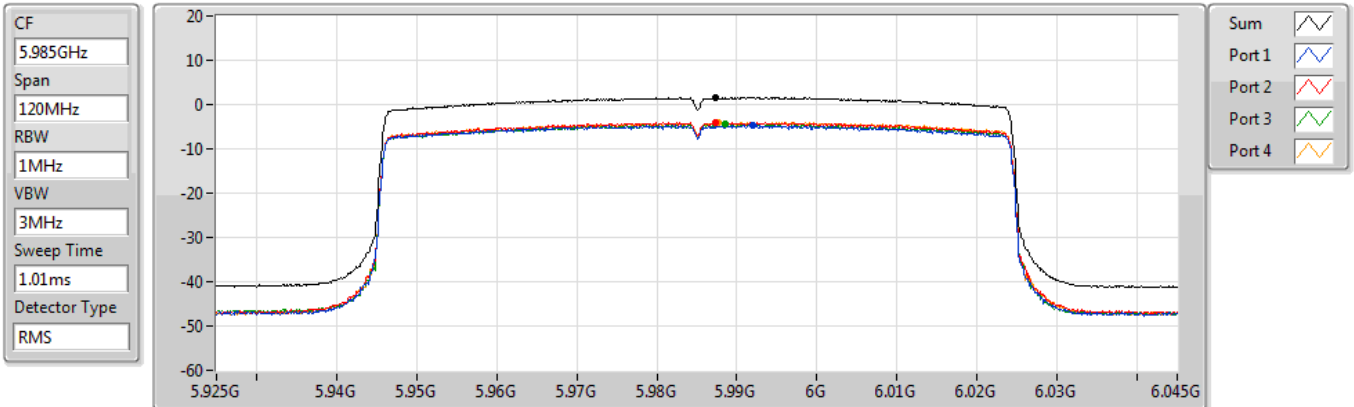


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.38	1.38	-4.85	-4.45	-4.41	-4.44

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

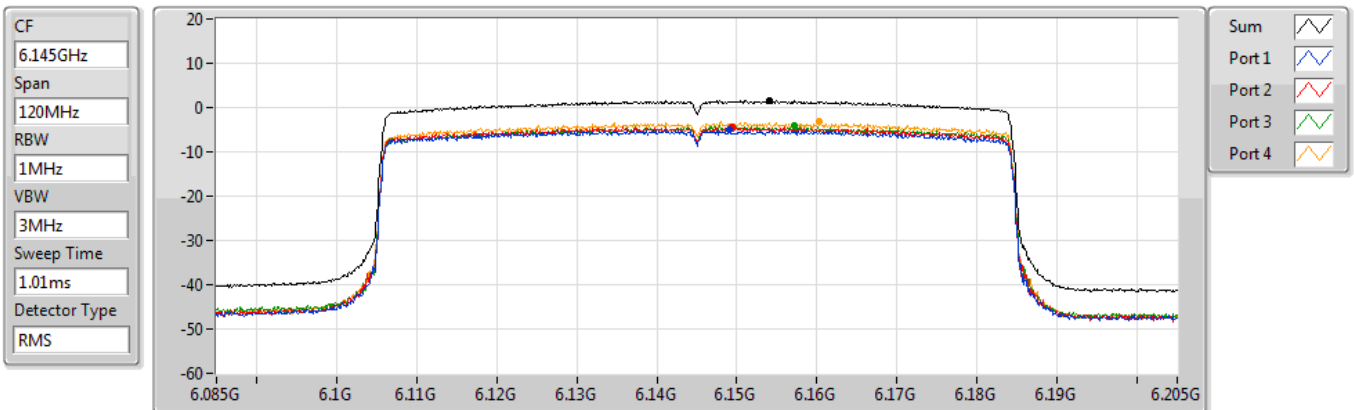
5985MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

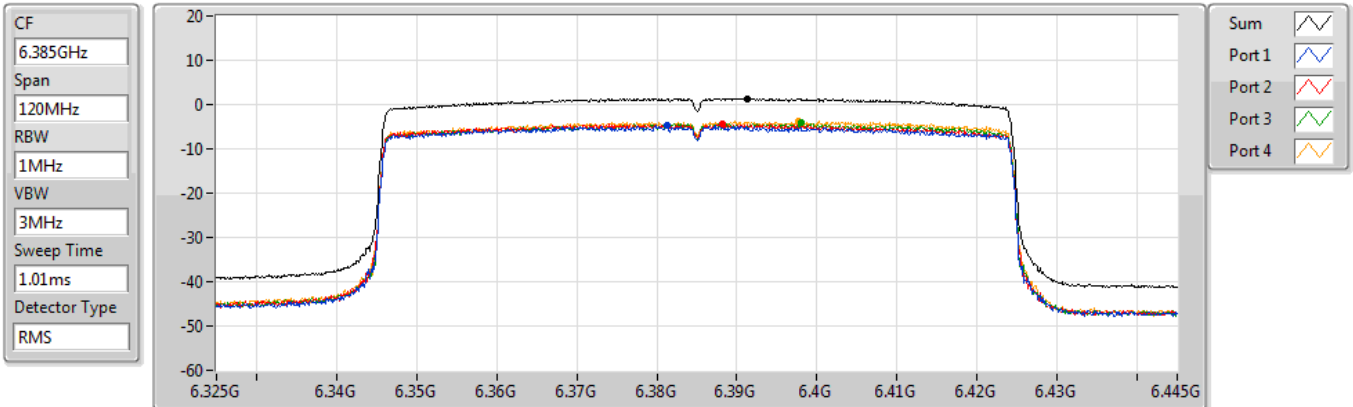
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802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

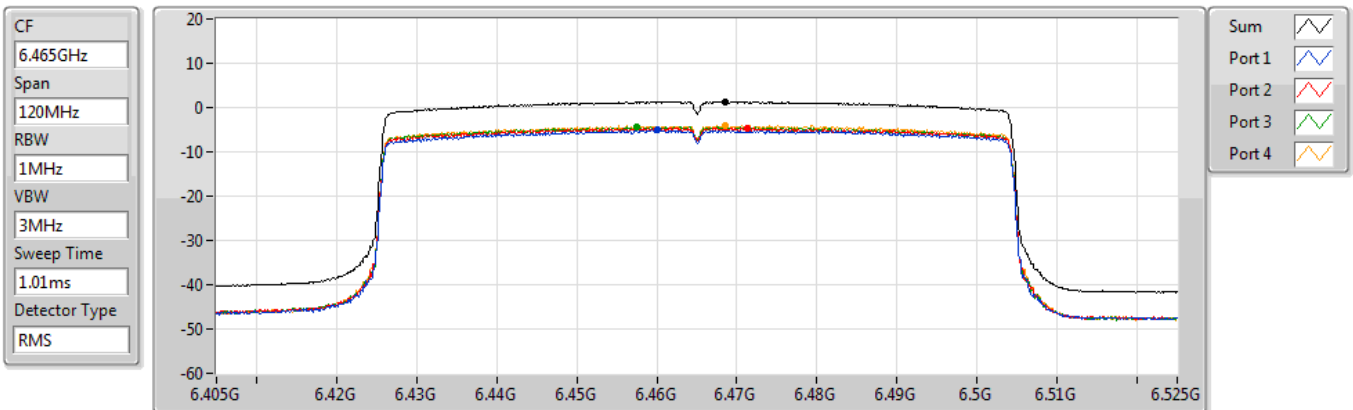
6385MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

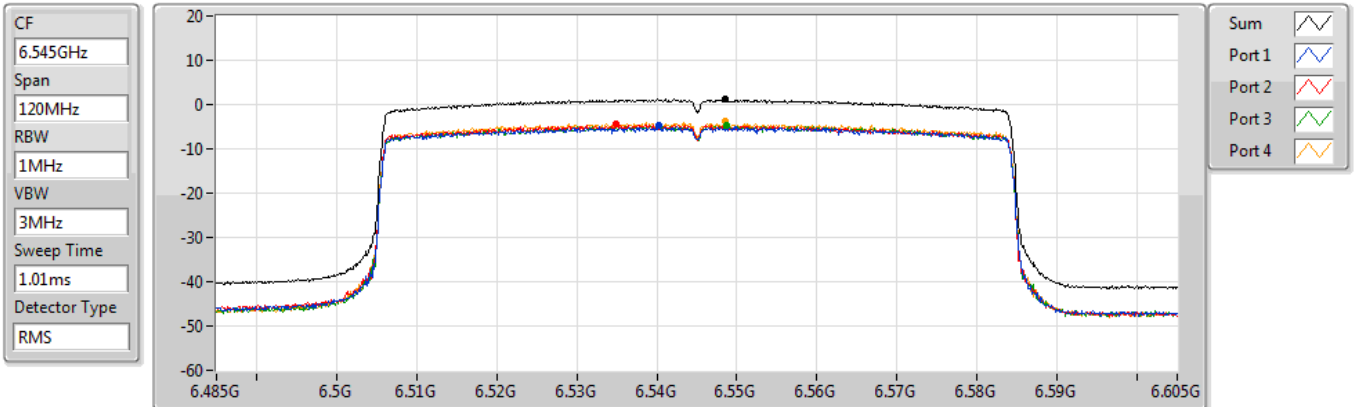
6465MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

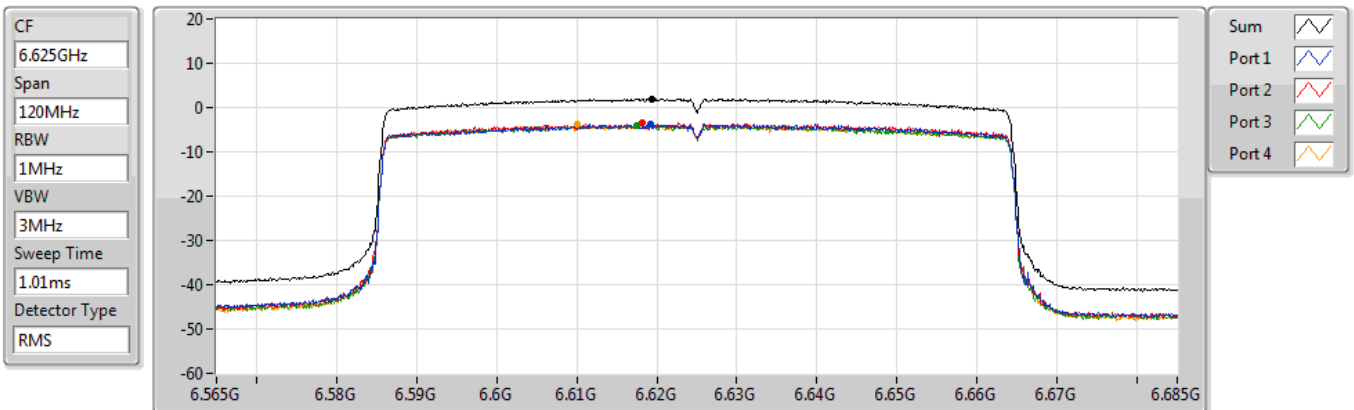
6545MHz Straddle 6.425-6.525GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

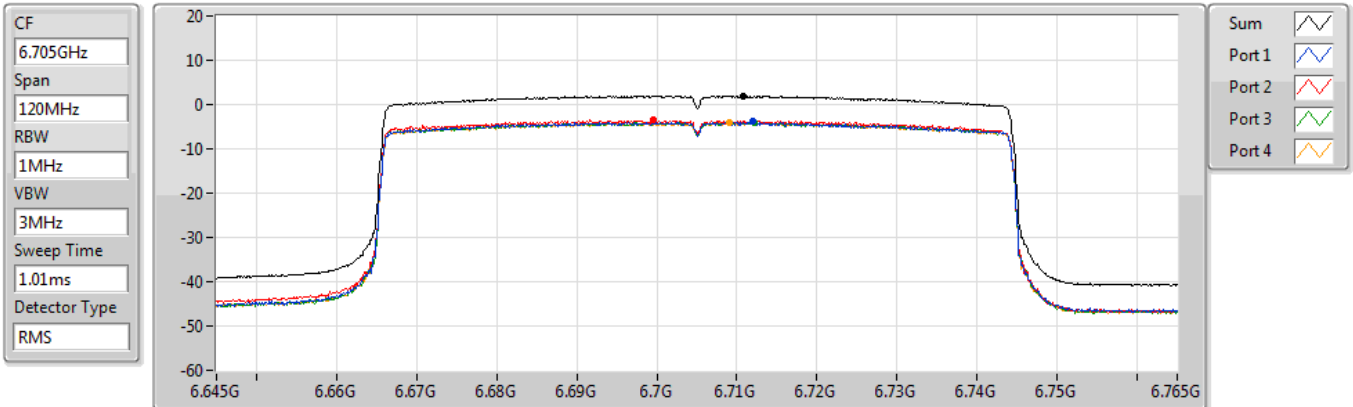
6625MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

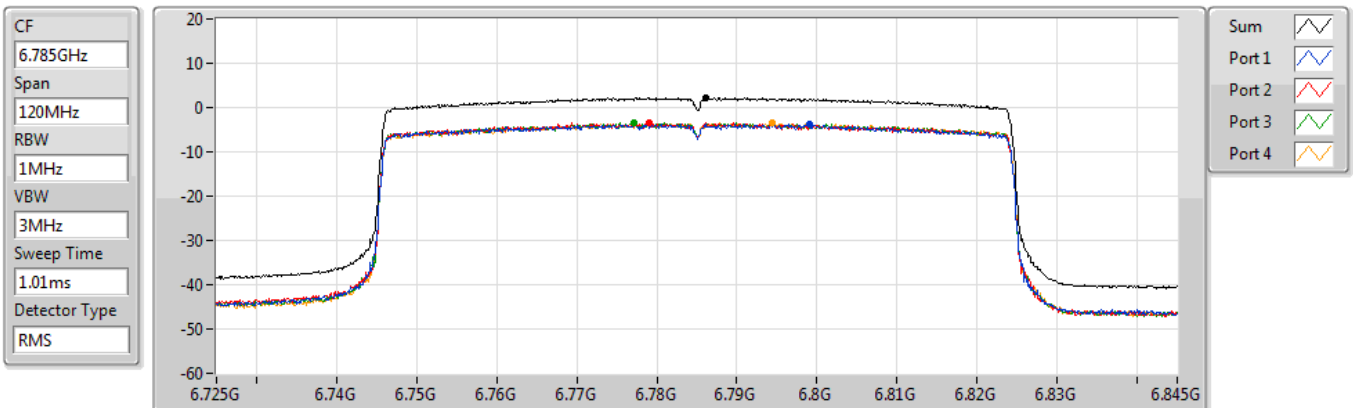
6705MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

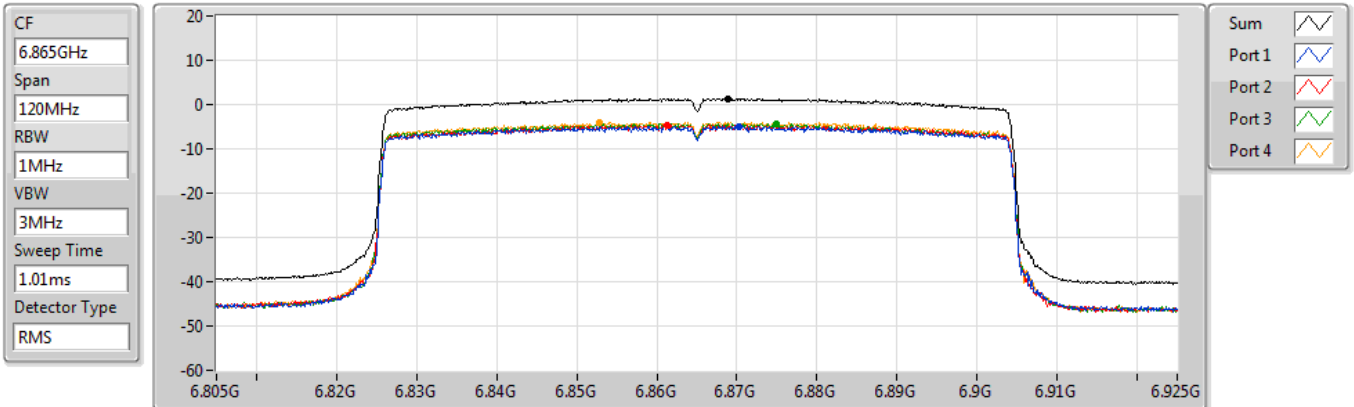
6785MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

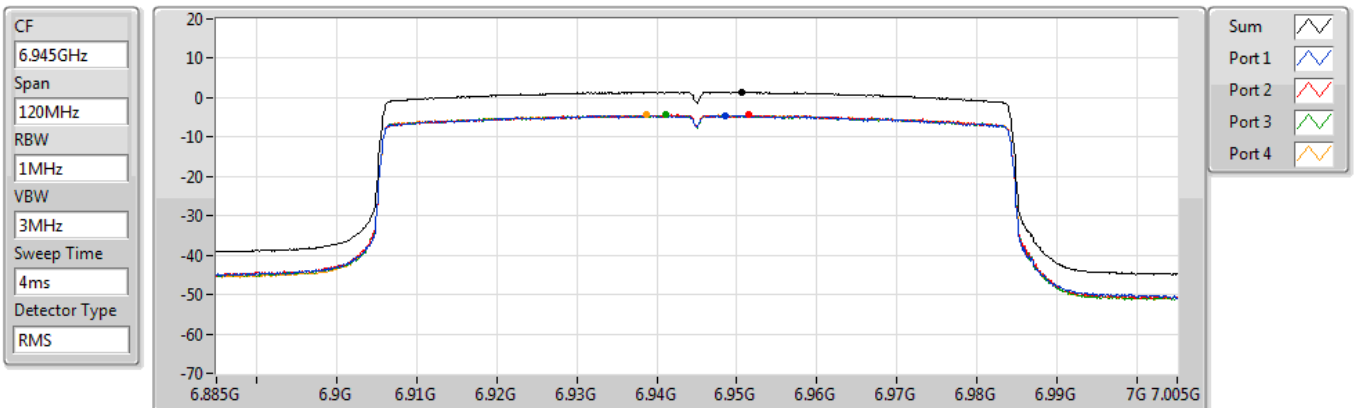
6865MHz Straddle 6.875-7.125GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

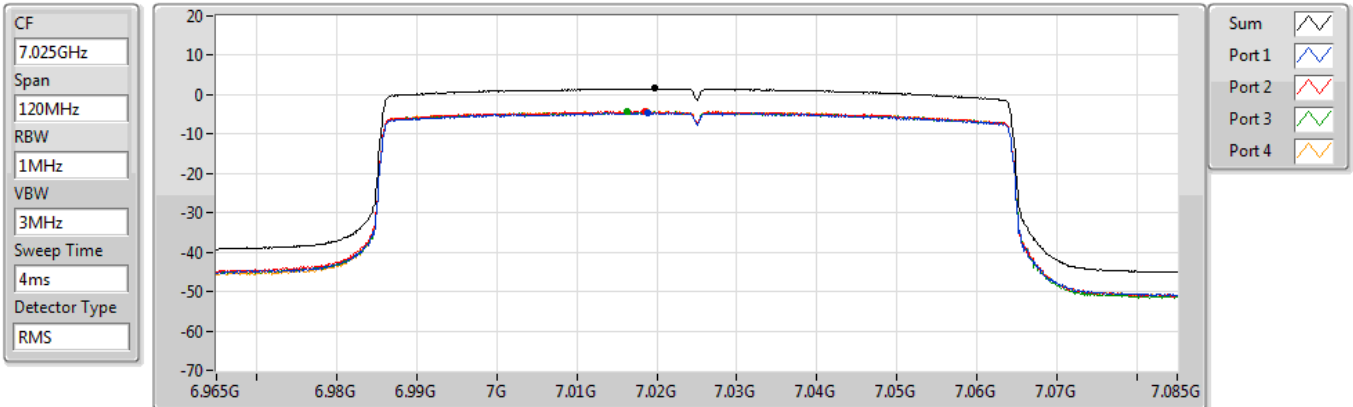
6945MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

7025MHz

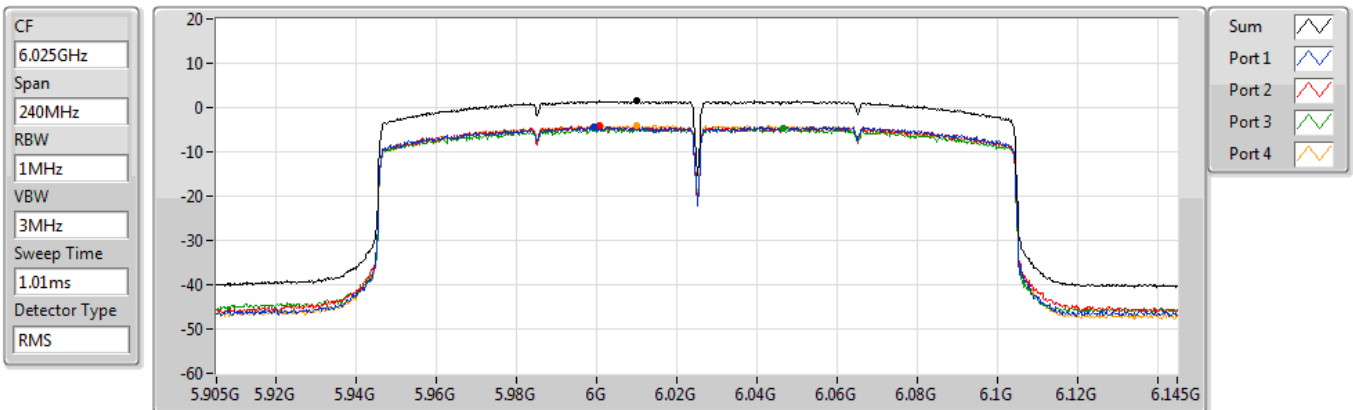


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.59	1.59	-4.52	-4.15	-4.37	-4.23

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6025MHz

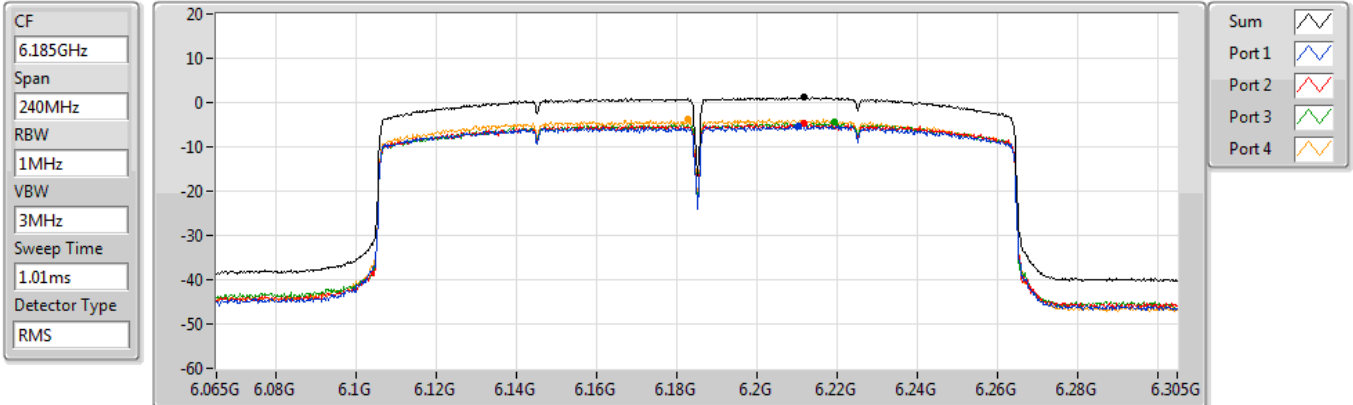


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.48	1.48	-4.24	-4.17	-4.54	-3.91

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

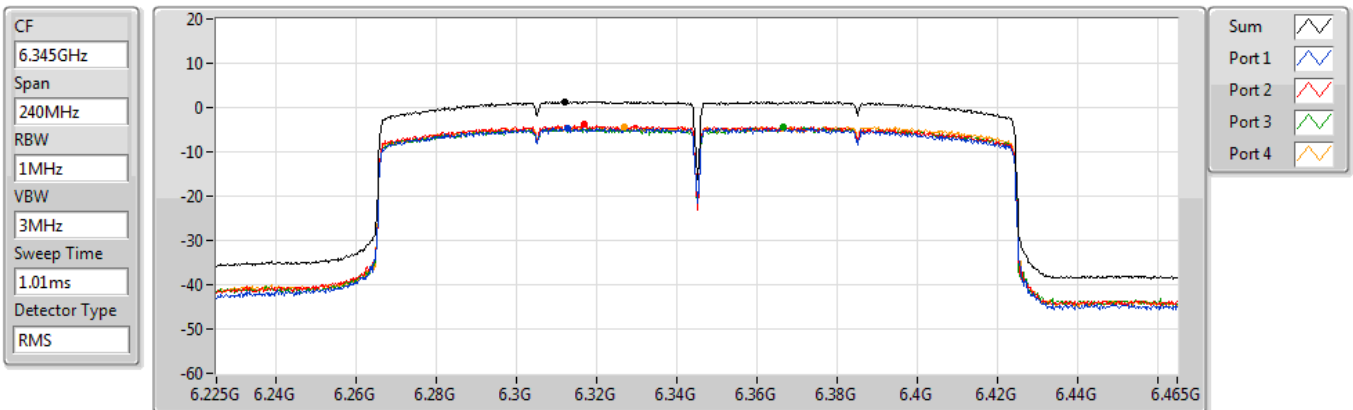
6185MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

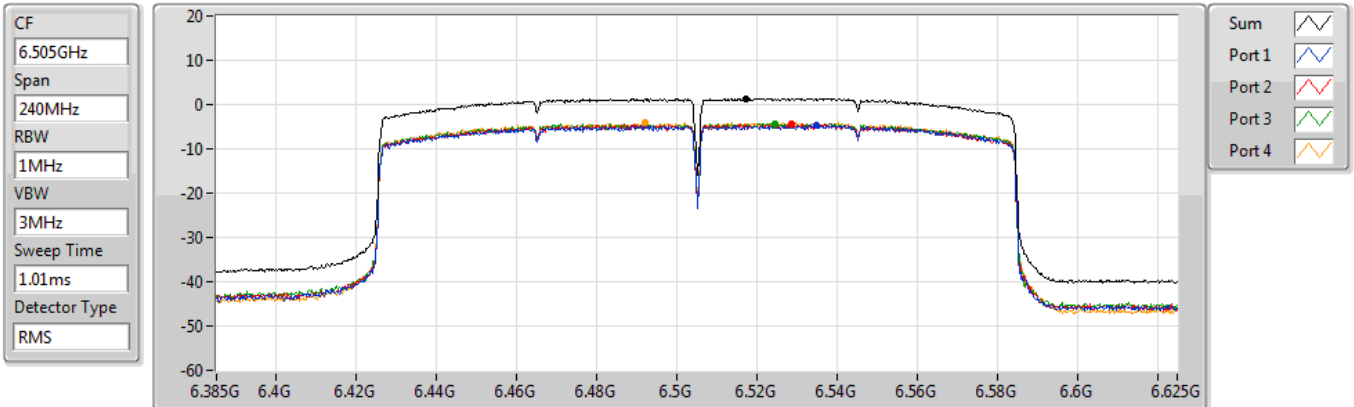
6345MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6505MHz Straddle 6.425-6.525GHz

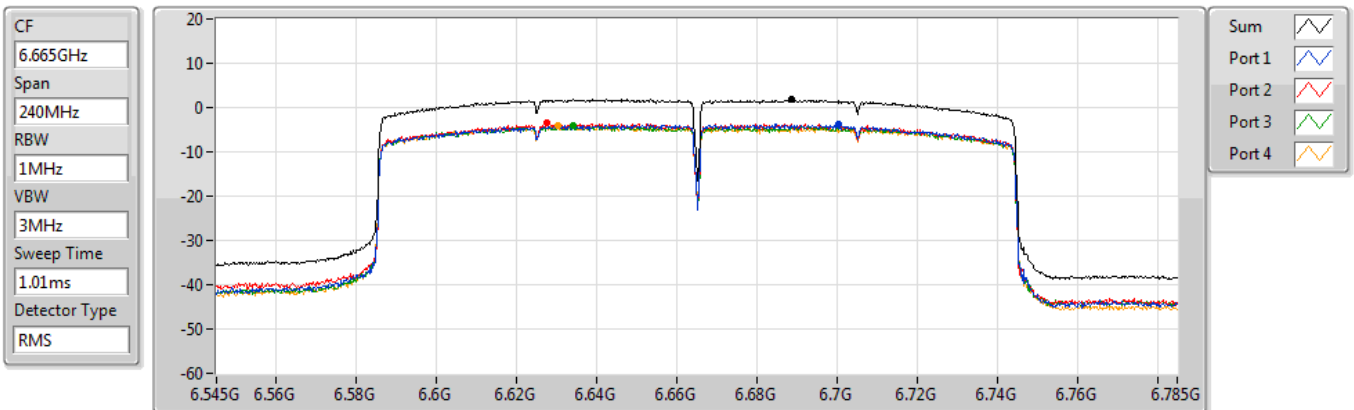


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.35	1.35	-4.61	-4.51	-4.26	-4.01

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6665MHz

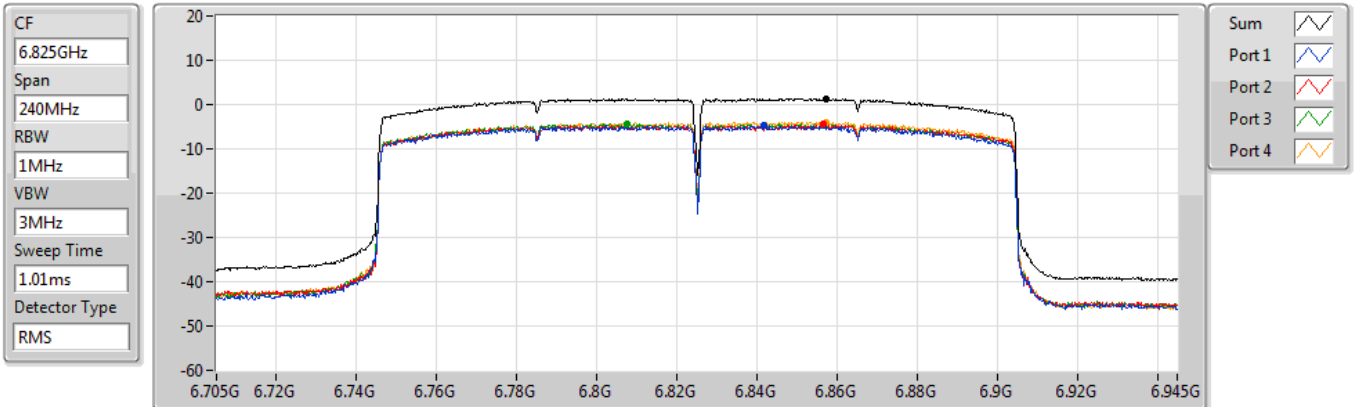


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.80	1.80	-3.70	-3.55	-3.98	-4.11

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6825MHz Straddle 6.875-7.125GHz

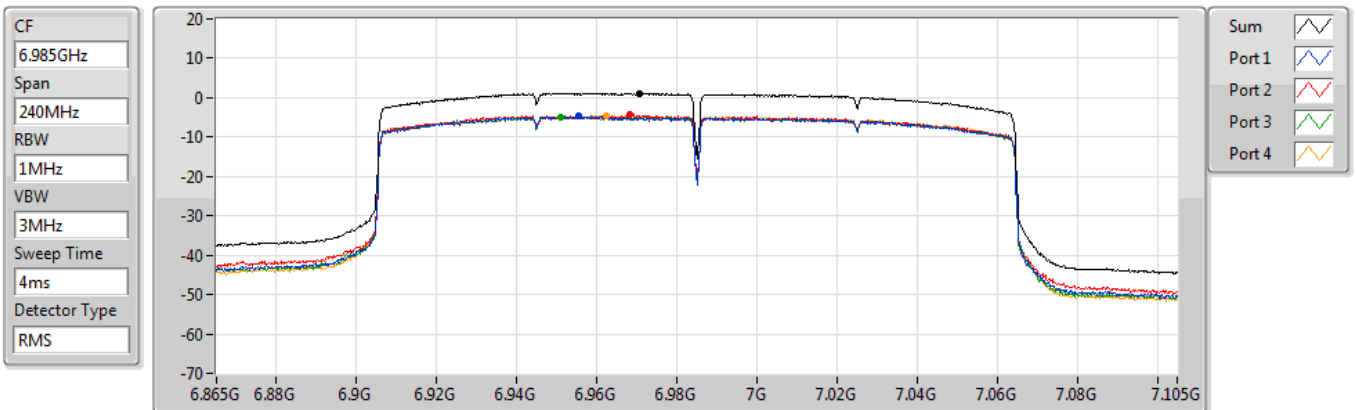


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.33	1.33	-4.76	-4.47	-4.36	-3.92

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6985MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.14	1.14	-4.65	-4.40	-4.80	-4.55



Adapter mode

Unwanted Emissions (Below 1GHz)

Modulation	ax HE160		Test Freq. (MHz)		6665																																																																							
Polarization	Horizontal																																																																											
Test By :Akun Chung Temperature(°C):23 Humidity(%):68																																																																												
Level (dBuV/m) CLASS-B <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>39.70</td><td>28.46</td><td>40.00</td><td>-11.54</td><td>37.22</td><td>-8.76</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>95.96</td><td>33.19</td><td>43.50</td><td>-10.31</td><td>47.15</td><td>-13.96</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>138.64</td><td>32.32</td><td>43.50</td><td>-11.18</td><td>41.34</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>157.07</td><td>31.65</td><td>43.50</td><td>-11.85</td><td>40.06</td><td>-8.41</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>199.75</td><td>29.48</td><td>43.50</td><td>-14.02</td><td>40.96</td><td>-11.48</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>483.96</td><td>39.87</td><td>46.00</td><td>-6.13</td><td>42.65</td><td>-2.78</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	39.70	28.46	40.00	-11.54	37.22	-8.76	Peak	---	---	2	95.96	33.19	43.50	-10.31	47.15	-13.96	Peak	---	---	3	138.64	32.32	43.50	-11.18	41.34	-9.02	Peak	---	---	4	157.07	31.65	43.50	-11.85	40.06	-8.41	Peak	---	---	5	199.75	29.48	43.50	-14.02	40.96	-11.48	Peak	---	---	6	483.96	39.87	46.00	-6.13	42.65	-2.78	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																			
1	39.70	28.46	40.00	-11.54	37.22	-8.76	Peak	---	---																																																																			
2	95.96	33.19	43.50	-10.31	47.15	-13.96	Peak	---	---																																																																			
3	138.64	32.32	43.50	-11.18	41.34	-9.02	Peak	---	---																																																																			
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																												



Modulation	ax HE160	Test Freq. (MHz)	6665																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):23 Humidity(%):68																																																																									
Level (dBUV/m) CLASS-B Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>42.61</td><td>36.87</td><td>40.00</td><td>-3.13</td><td>45.27</td><td>-8.40</td><td>QP</td><td>100</td><td>191</td></tr><tr><td>2</td><td>101.78</td><td>32.28</td><td>43.50</td><td>-11.22</td><td>44.98</td><td>-12.70</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>155.13</td><td>32.84</td><td>43.50</td><td>-10.66</td><td>41.25</td><td>-8.41</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>164.83</td><td>32.30</td><td>43.50</td><td>-11.20</td><td>40.86</td><td>-8.56</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>198.78</td><td>30.60</td><td>43.50</td><td>-12.90</td><td>42.04</td><td>-11.44</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>482.99</td><td>33.26</td><td>46.00</td><td>-12.74</td><td>36.04</td><td>-2.78</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	42.61	36.87	40.00	-3.13	45.27	-8.40	QP	100	191	2	101.78	32.28	43.50	-11.22	44.98	-12.70	Peak	---	---	3	155.13	32.84	43.50	-10.66	41.25	-8.41	Peak	---	---	4	164.83	32.30	43.50	-11.20	40.86	-8.56	Peak	---	---	5	198.78	30.60	43.50	-12.90	42.04	-11.44	Peak	---	---	6	482.99	33.26	46.00	-12.74	36.04	-2.78	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
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4	164.83	32.30	43.50	-11.20	40.86	-8.56	Peak	---	---																																																																
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Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	5935
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):68			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	5935																																																																																										
Polarization	Vertical																																																																																												
Test By :Brad Wu Temperature(°C):23 Humidity(%):68																																																																																													
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Modulation	ax HE20	Test Freq. (MHz)	5955
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):68			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	5955																																																																																										
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Test By :Brad Wu Temperature(°C):23 Humidity(%):68																																																																																													
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Modulation		ax HE20		Test Freq. (MHz)		6175																																																																																																																												
Polarization		Horizontal																																																																																																																																
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																												
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																								
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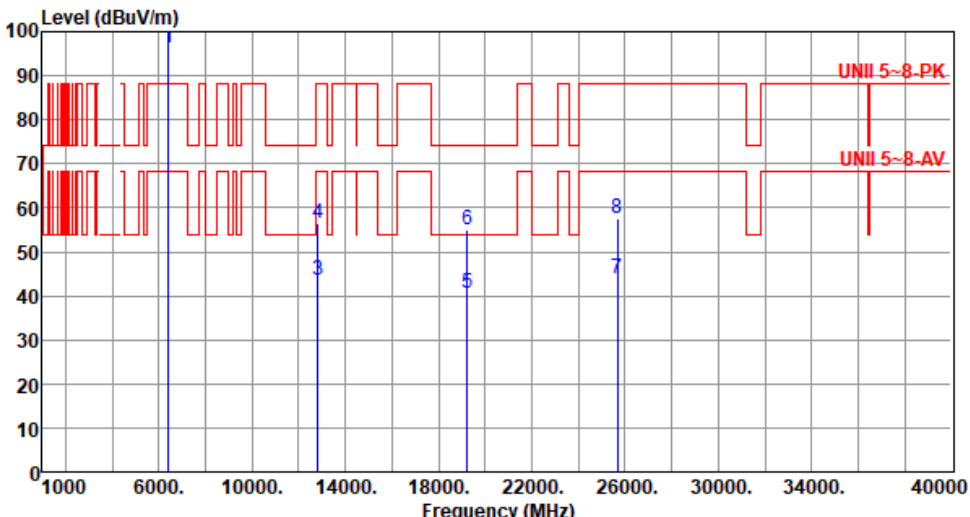


Modulation	ax HE20		Test Freq. (MHz)		6175																																																																																																															
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Polarization		Horizontal																																																																																																										
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																						
Level (dBUV/m) Frequency (MHz) <table><thead><tr><th></th><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>6415.00</td><td>95.36</td><td></td><td></td><td>87.01</td><td>8.35</td><td>Average</td><td>262</td><td>35</td></tr><tr><td>2</td><td>*</td><td>6415.00</td><td>108.28</td><td></td><td></td><td>99.93</td><td>8.35</td><td>Peak</td><td>262</td><td>35</td></tr><tr><td>3</td><td></td><td>12830.00</td><td>43.43</td><td>68.20</td><td>-24.77</td><td>28.16</td><td>15.27</td><td>Average</td><td>100</td><td>35</td></tr><tr><td>4</td><td></td><td>12830.00</td><td>56.61</td><td>88.20</td><td>-31.59</td><td>41.34</td><td>15.27</td><td>Peak</td><td>100</td><td>35</td></tr><tr><td>5</td><td></td><td>19245.00</td><td>40.68</td><td>54.00</td><td>-13.32</td><td>35.83</td><td>4.85</td><td>Average</td><td>100</td><td>22</td></tr><tr><td>6</td><td></td><td>19245.00</td><td>55.00</td><td>74.00</td><td>-19.00</td><td>50.15</td><td>4.85</td><td>Peak</td><td>100</td><td>22</td></tr><tr><td>7</td><td></td><td>25660.00</td><td>43.79</td><td>68.20</td><td>-24.41</td><td>32.18</td><td>11.61</td><td>Average</td><td>100</td><td>38</td></tr><tr><td>8</td><td></td><td>25660.00</td><td>57.73</td><td>88.20</td><td>-30.47</td><td>46.12</td><td>11.61</td><td>Peak</td><td>100</td><td>38</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: "*" is Peak / Average value of fundamental frequency												Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	*	6415.00	95.36			87.01	8.35	Average	262	35	2	*	6415.00	108.28			99.93	8.35	Peak	262	35	3		12830.00	43.43	68.20	-24.77	28.16	15.27	Average	100	35	4		12830.00	56.61	88.20	-31.59	41.34	15.27	Peak	100	35	5		19245.00	40.68	54.00	-13.32	35.83	4.85	Average	100	22	6		19245.00	55.00	74.00	-19.00	50.15	4.85	Peak	100	22	7		25660.00	43.79	68.20	-24.41	32.18	11.61	Average	100	38	8		25660.00	57.73	88.20	-30.47	46.12	11.61	Peak	100	38
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Modulation		ax HE20		Test Freq. (MHz)		6415																																																																																																																												
Polarization		Vertical																																																																																																																																
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																												
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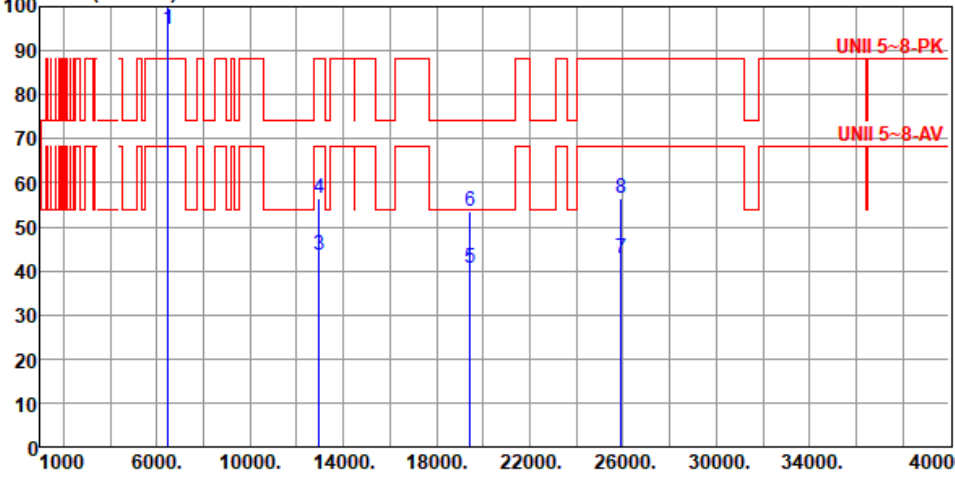


Modulation		ax HE20		Test Freq. (MHz)		6435			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68			
Level (dBUV/m) <									



Modulation		ax HE20		Test Freq. (MHz)		6435																																																																																																																												
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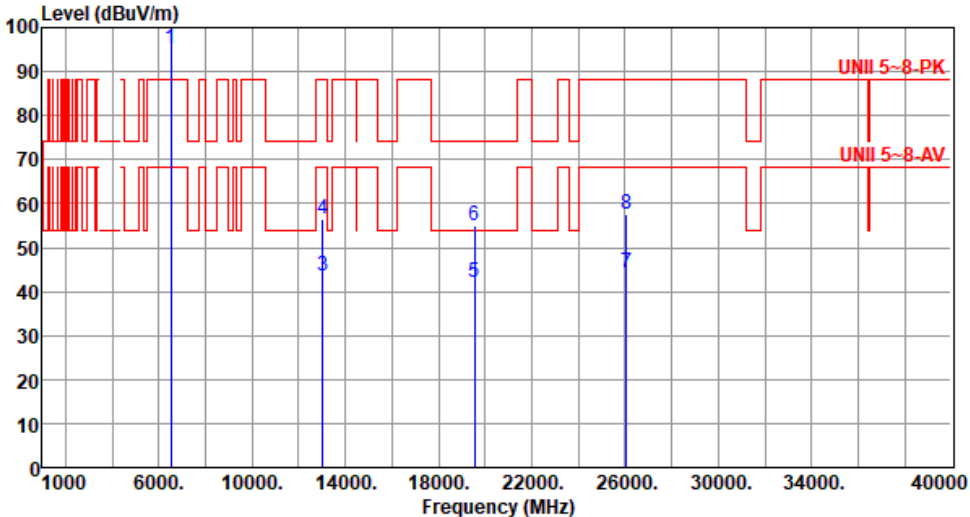


Modulation		ax HE20			Test Freq. (MHz)		6475																																																																																																																											
Polarization		Horizontal																																																																																																																																
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																												
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Modulation		ax HE20		Test Freq. (MHz)		6515																																																																																																																													
Polarization		Horizontal																																																																																																																																	
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																													
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Modulation		ax HE20		Test Freq. (MHz)		6515				
Polarization		Vertical								
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69				
Level (dBUV/m) Frequency (MHz)										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	6515.00	96.24			87.44	8.80	Average	183	21
2	*	6515.00	109.76			100.96	8.80	Peak	183	21
3		13030.00	43.56	68.20	-24.64	27.98	15.58	Average	100	47
4		13030.00	56.60	88.20	-31.60	41.02	15.58	Peak	100	47
5		19545.00	41.84	54.00	-12.16	36.91	4.93	Average	100	85
6		19545.00	55.35	74.00	-18.65	50.42	4.93	Peak	100	85
7		26060.00	44.43	68.20	-23.77	32.46	11.97	Average	100	55
8		26060.00	58.13	88.20	-30.07	46.16	11.97	Peak	100	55

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3:"*" is Peak / Average value of fundamental frequency



Modulation		ax HE20		Test Freq. (MHz)		6535			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68			
Level (dBuV/m)									



Modulation		ax HE20		Test Freq. (MHz)		6535																																																																																																																												
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Modulation	ax HE20		Test Freq. (MHz)		6715																																																																																																																													
Polarization	Vertical																																																																																																																																	
Test By :Brad Wu Temperature(°C):23 Humidity(%):68																																																																																																																																		
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Modulation	ax HE20	Test Freq. (MHz)	6855																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Brad Wu Temperature(°C):23 Humidity(%):69																																																																																																																	
Level (dBUV/m) 100 90 80 70 60 50 40 30 20 10 0 1000 6000. 10000. 14000. 18000. 22000. 26000. 30000. 34000. 40000 Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBUV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBUV/m</th><th></th><th></th><th>dBUV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>*</td><td>6855.00</td><td>96.42</td><td></td><td>87.25</td><td>9.17</td><td>Average</td><td>251</td><td>26</td></tr><tr><td>2</td><td>*</td><td>6855.00</td><td>109.18</td><td></td><td>100.01</td><td>9.17</td><td>Peak</td><td>251</td><td>26</td></tr><tr><td>3</td><td></td><td>13710.00</td><td>45.16</td><td>68.20 -23.04</td><td>28.21</td><td>16.95</td><td>Average</td><td>100</td><td>52</td></tr><tr><td>4</td><td></td><td>13710.00</td><td>58.30</td><td>88.20 -29.90</td><td>41.35</td><td>16.95</td><td>Peak</td><td>100</td><td>52</td></tr><tr><td>5</td><td></td><td>20565.00</td><td>41.16</td><td>54.00 -12.84</td><td>34.68</td><td>6.48</td><td>Average</td><td>100</td><td>49</td></tr><tr><td>6</td><td></td><td>20565.00</td><td>55.64</td><td>74.00 -18.36</td><td>49.16</td><td>6.48</td><td>Peak</td><td>100</td><td>49</td></tr><tr><td>7</td><td></td><td>27420.00</td><td>45.95</td><td>68.20 -22.25</td><td>32.65</td><td>13.30</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>8</td><td></td><td>27420.00</td><td>57.14</td><td>88.20 -31.06</td><td>43.84</td><td>13.30</td><td>Peak</td><td>100</td><td>55</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBUV/m	dB	reading	dB/m		High	Table			dBUV/m			dBUV			cm	deg	1	*	6855.00	96.42		87.25	9.17	Average	251	26	2	*	6855.00	109.18		100.01	9.17	Peak	251	26	3		13710.00	45.16	68.20 -23.04	28.21	16.95	Average	100	52	4		13710.00	58.30	88.20 -29.90	41.35	16.95	Peak	100	52	5		20565.00	41.16	54.00 -12.84	34.68	6.48	Average	100	49	6		20565.00	55.64	74.00 -18.36	49.16	6.48	Peak	100	49	7		27420.00	45.95	68.20 -22.25	32.65	13.30	Average	100	55	8		27420.00	57.14	88.20 -31.06	43.84	13.30	Peak	100	55
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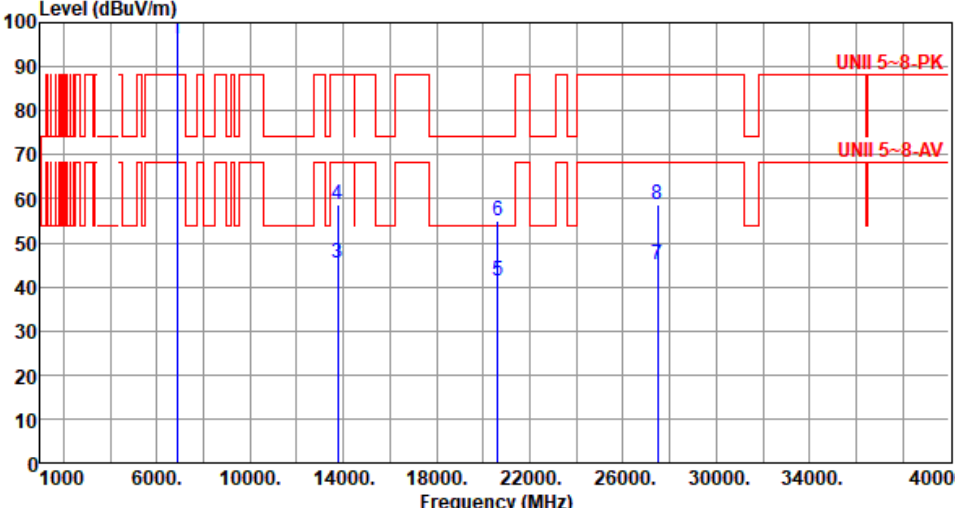


Modulation	ax HE20	Test Freq. (MHz)	6855																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Brad Wu Temperature(°C):23 Humidity(%):69																																																																																																																	
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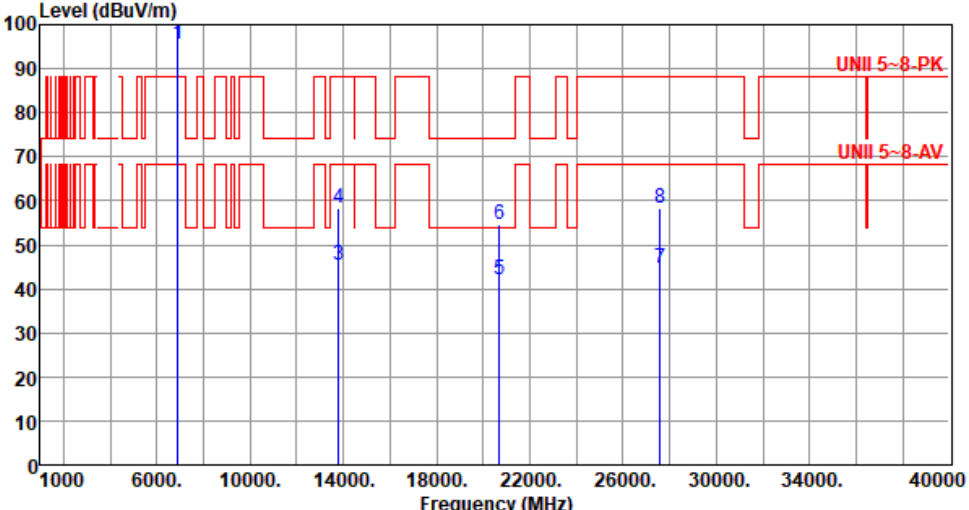


Modulation		ax HE20		Test Freq. (MHz)		6875	
Polarization		Horizontal					
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68	
Level (dBuV/m)							



Modulation		ax HE20		Test Freq. (MHz)		6875																																																																																																																												
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Modulation		ax HE20		Test Freq. (MHz)		6895																																																																																																																													
Polarization		Horizontal																																																																																																																																	
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																													
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Modulation		ax HE20			Test Freq. (MHz)		6895																																																																																																																												
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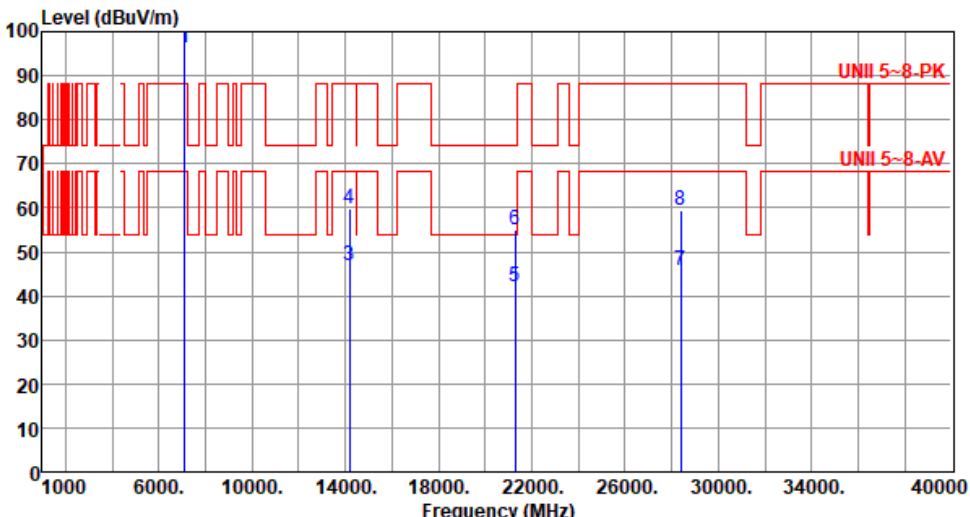


Modulation		ax HE20		Test Freq. (MHz)		7015																																																																																																																												
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Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																												
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Modulation	ax HE20	Test Freq. (MHz)	7015
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) </			

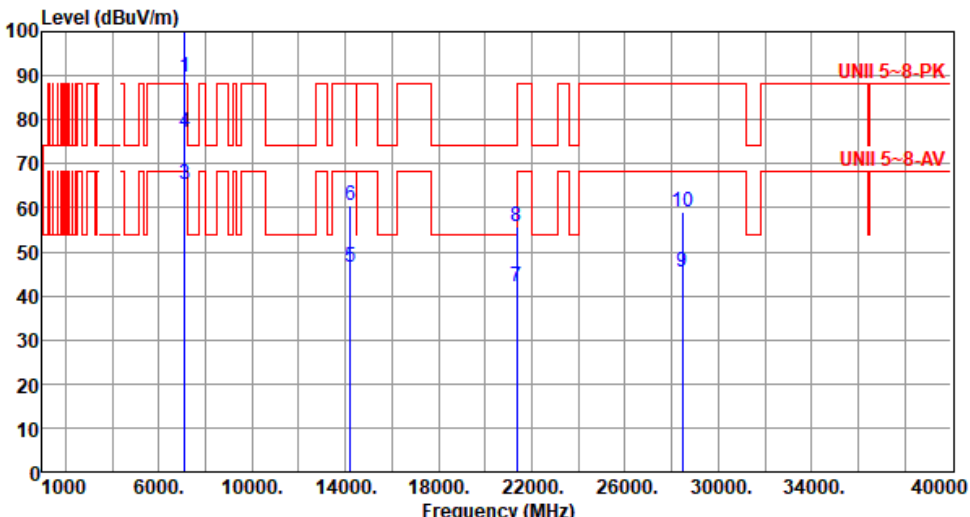


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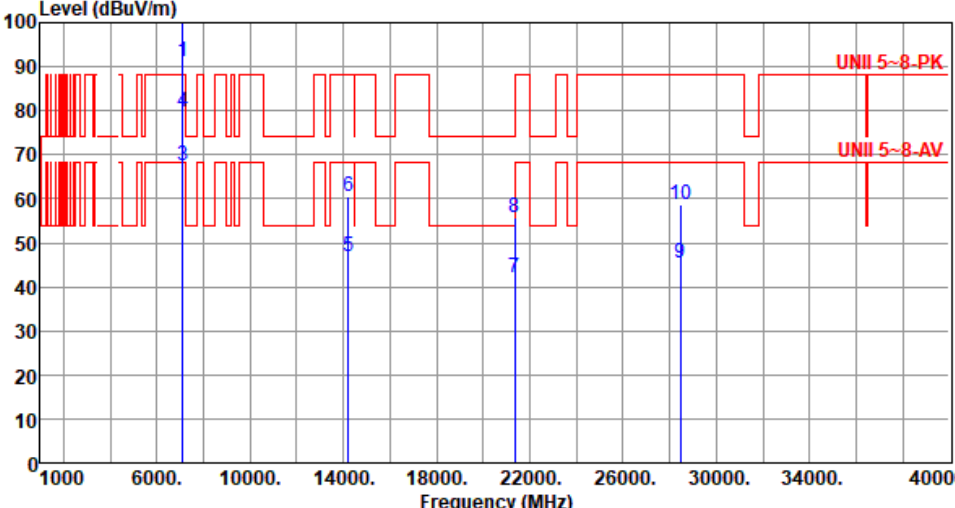


Modulation	ax HE20	Test Freq. (MHz)	7095																																																																																										
Polarization	Vertical																																																																																												
Test By :Brad Wu Temperature(°C):23 Humidity(%):68																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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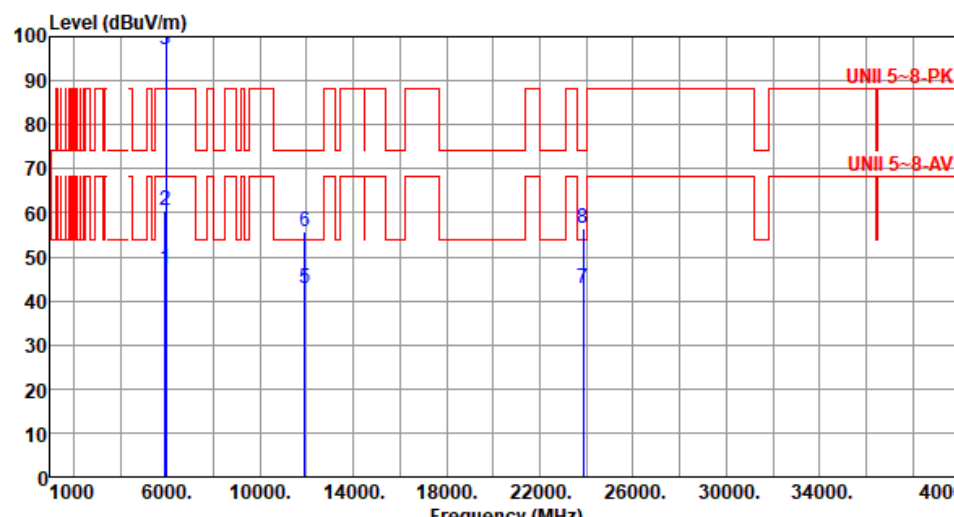


Modulation		ax HE20		Test Freq. (MHz)		7115																																																																																																																																																		
Polarization		Horizontal																																																																																																																																																						
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68																																																																																																																																																		
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Modulation	ax HE20	Test Freq. (MHz)	7115																																																																																																																																			
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Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40	Test Freq. (MHz)	5965						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):23 Humidity(%):68									
Level (dBuV/m) 									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5925.00	47.27	68.20	-20.93	40.24	7.03	Average	277	5
2	5925.00	60.48	88.20	-27.72	53.45	7.03	Peak	277	5
3 *	5965.00	96.97			89.86	7.11	Average	277	5
4 *	5965.00	109.67			102.56	7.11	Peak	277	5
5	11930.00	42.76	54.00	-11.24	28.25	14.51	Average	100	19
6	11930.00	55.58	74.00	-18.42	41.07	14.51	Peak	100	19
7	23860.00	42.91	54.00	-11.09	33.11	9.80	Average	100	46
8	23860.00	56.52	74.00	-17.48	46.72	9.80	Peak	100	46

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3:"*" is Peak / Average value of fundamental frequency



Modulation	ax HE40	Test Freq. (MHz)	5965																																																																																										
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Test By :Akun Chung Temperature(°C):23 Humidity(%):68																																																																																													
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Modulation		ax HE40		Test Freq. (MHz)		6165																																																																																																																												
Polarization		Horizontal																																																																																																																																
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																												
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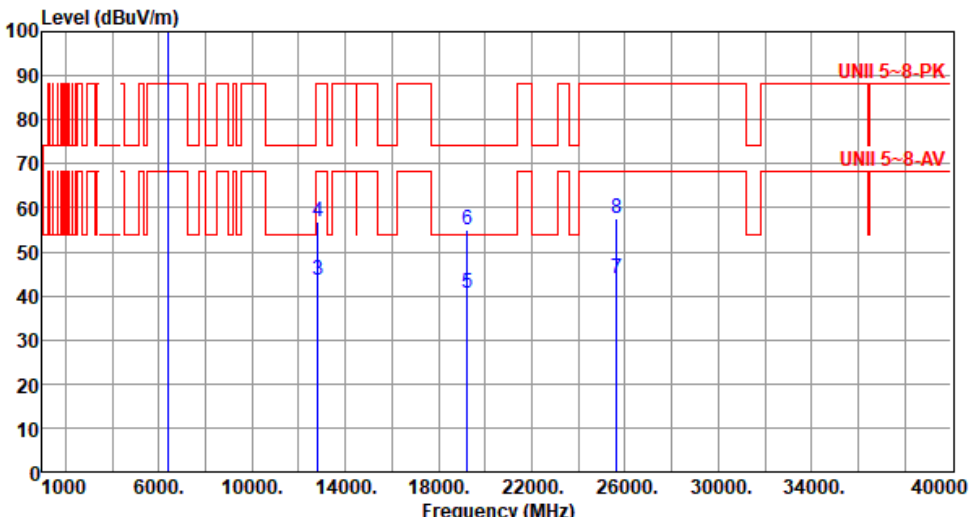


Modulation		ax HE40		Test Freq. (MHz)		6165																																																																																																																												
Polarization		Vertical																																																																																																																																
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																												
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Modulation		ax HE40		Test Freq. (MHz)		6405			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69			
Level (dBuV/m)									



Modulation		ax HE40			Test Freq. (MHz)		6405																																																																																																																												
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Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																													
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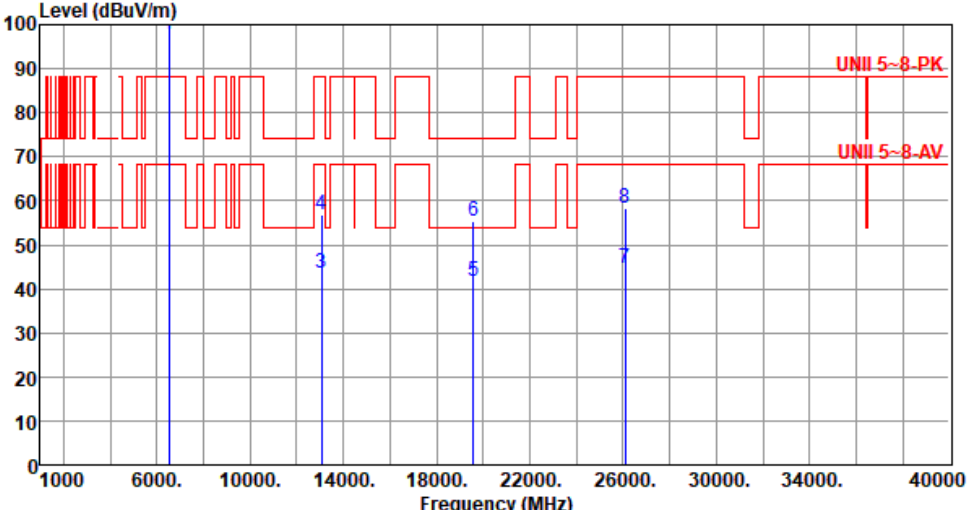


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Modulation	ax HE40	Test Freq. (MHz)	6725
Polarization	Horizontal		
Test By :Akun Chung		Temperature(°C):23	Humidity(%):68

		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	6725.00	97.24			88.58	8.66	Average	268	11
2	*	6725.00	109.45			100.79	8.66	Peak	268	11
3		13450.00	45.21	68.20	-22.99	28.51	16.70	Average	100	19
4		13450.00	58.26	88.20	-29.94	41.56	16.70	Peak	100	19
5		20175.00	41.48	54.00	-12.52	35.71	5.77	Average	100	25
6		20175.00	54.93	74.00	-19.07	49.16	5.77	Peak	100	25
7		26900.00	45.19	68.20	-23.01	32.35	12.84	Average	100	36
8		26900.00	59.22	88.20	-28.98	46.38	12.84	Peak	100	36

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
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Modulation	ax HE40	Test Freq. (MHz)	6725																																																																																																														
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Modulation		ax HE40		Test Freq. (MHz)		6845			
Polarization		Vertical							
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69			
Level (dBuV/m)									



Modulation	ax HE40	Test Freq. (MHz)	6885																																																																																																														
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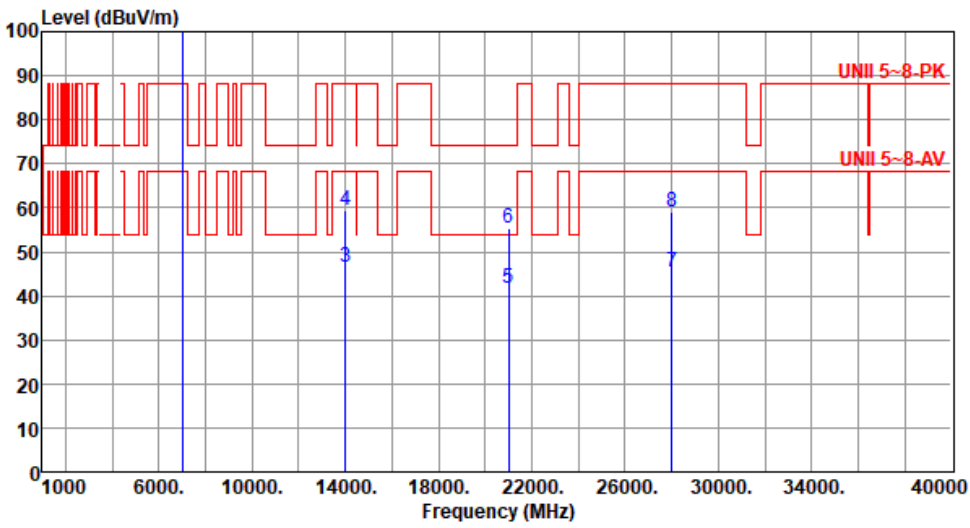


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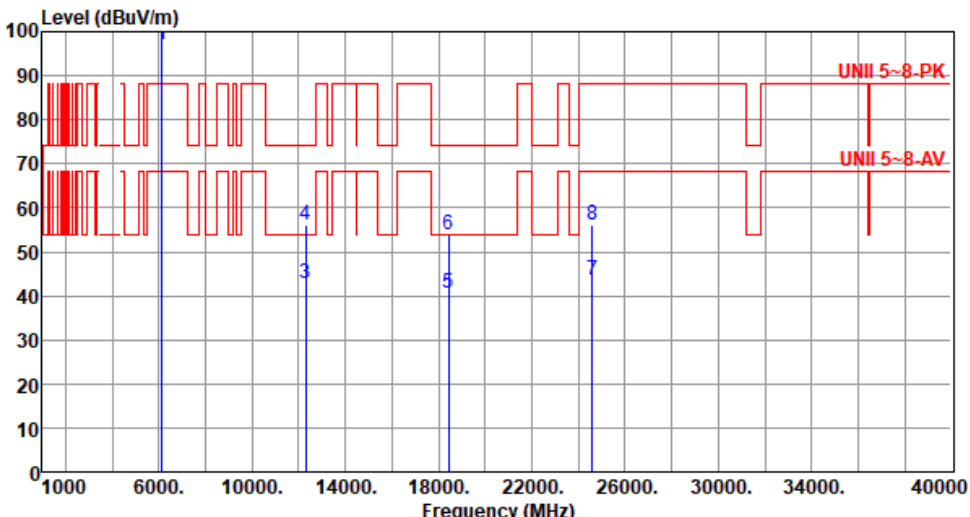
Unwanted Emissions (Above 1GHz) for ax HE80

Modulation	ax HE80	Test Freq. (MHz)	5985
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):68			
Level (dBuV/m)			



Modulation	ax HE80	Test Freq. (MHz)	5985																																																																																										
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Modulation		ax HE80			Test Freq. (MHz)		6465																																																																																																																
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Test By		:Akun Chung		Temperature(°C):23		Humidity(%):68																																																																																																																	
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Modulation		ax HE80		Test Freq. (MHz)		6465				
Polarization		Vertical								
Test By		:Akun Chung		Temperature(°C):23		Humidity(%):68				
Level (dBuV/m) Frequency (MHz)										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	6465.00	97.85			89.25	8.60	Average	202	355
2	*	6465.00	109.52			100.92	8.60	Peak	202	355
3		12930.00	43.65	68.20	-24.55	28.24	15.41	Average	100	26
4		12930.00	56.92	88.20	-31.28	41.51	15.41	Peak	100	26
5		19395.00	40.85	54.00	-13.15	36.02	4.83	Average	100	44
6		19395.00	53.88	74.00	-20.12	49.05	4.83	Peak	100	44
7		25860.00	43.19	68.20	-25.01	31.49	11.70	Average	100	63
8		25860.00	56.25	88.20	-31.95	44.55	11.70	Peak	100	63

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain

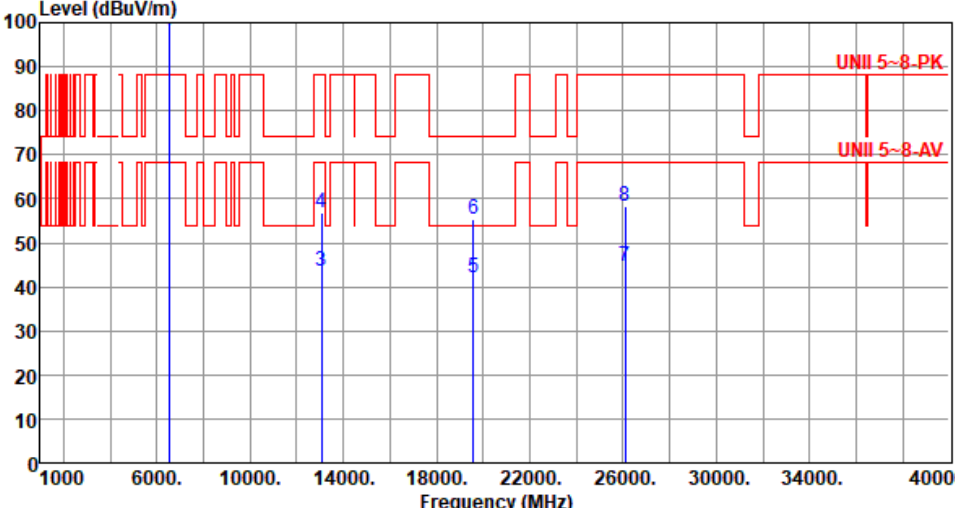
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation		ax HE80		Test Freq. (MHz)		6545																																																																																																																												
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																								
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Modulation		ax HE80		Test Freq. (MHz)		6625																																																																																																																	
Polarization		Horizontal																																																																																																																					
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69																																																																																																																	
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Modulation	ax HE80	Test Freq. (MHz)	6625
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):69			
Level (dBUV/m)			



Modulation		ax HE80		Test Freq. (MHz)		6705																																																																																																				
Polarization		Horizontal																																																																																																								
Test By		:Akun Chung		Temperature(°C):23		Humidity(%):68																																																																																																				
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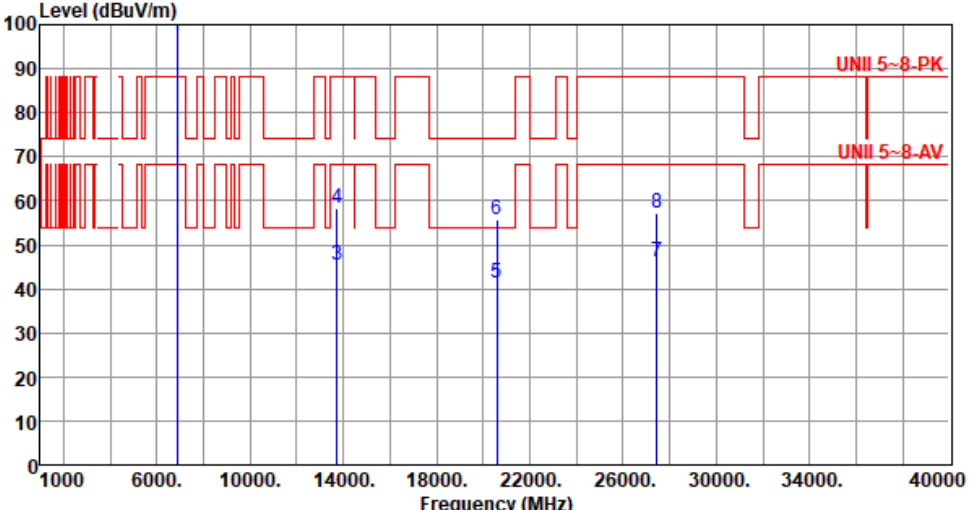


Modulation		ax HE80		Test Freq. (MHz)		6785	
Polarization		Horizontal					
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):69	
Level (dBuV/m)							



Modulation		ax HE80			Test Freq. (MHz)		6785																																																																																																																												
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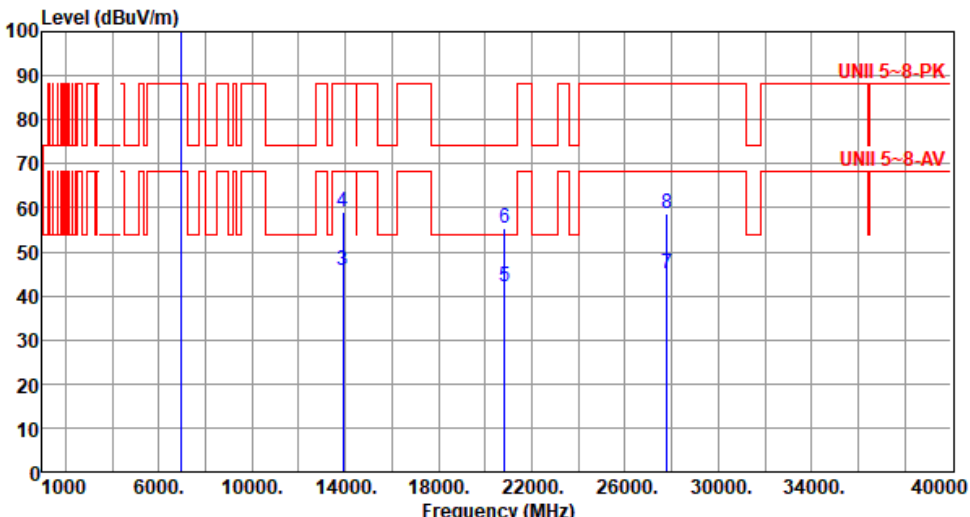


Modulation	ax HE80	Test Freq. (MHz)	6865																																																																																																																				
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Polarization		Horizontal								
Test By		:Brad Wu		Temperature(°C):23			Humidity(%):69			
Level (dBuV/m) <										



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Polarization		Horizontal																																																																																																																																																				
Test By		:Akun Chung		Temperature(°C):23		Humidity(%):68																																																																																																																																																
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																													
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Modulation		ax HE80			Test Freq. (MHz)		7025																																																																																																																											
Polarization		Vertical																																																																																																																																
Test By		:Akun Chung		Temperature(°C):23		Humidity(%):68																																																																																																																												
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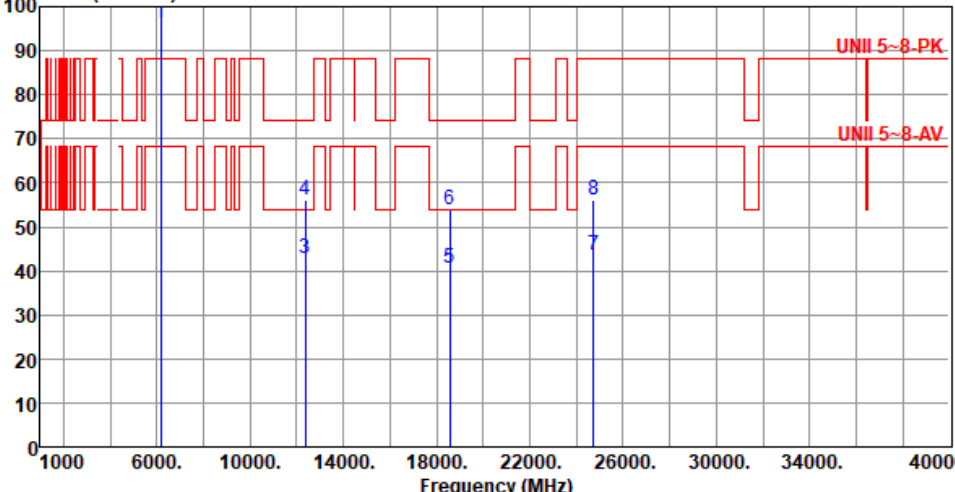
Unwanted Emissions (Above 1GHz) for ax HE160

Modulation	ax HE160	Test Freq. (MHz)	6025																																																																																										
Polarization	Horizontal																																																																																												
Test By :Brad Wu Temperature(°C):23 Humidity(%):68																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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5	12050.00	42.68	54.00	-11.32	27.77	14.91	Average	100	41																																																																																				
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8	24100.00	56.41	88.20	-31.79	46.11	10.30	Peak	100	52																																																																																				



Modulation	ax HE160		Test Freq. (MHz)		6025																																																																																														
Polarization	Vertical																																																																																																		
Test By :Brad Wu Temperature(°C):23 Humidity(%):68																																																																																																			
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																										
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Modulation		ax HE160			Test Freq. (MHz)		6185																																																																																																																												
Polarization		Horizontal																																																																																																																																	
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68																																																																																																																													
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Modulation	ax HE160		Test Freq. (MHz)		6185																																																																																																															
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Polarization		Horizontal																																																																																																																																	
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68																																																																																																																													
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Modulation		ax HE160			Test Freq. (MHz)		6345			
Polarization		Vertical								
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68				
Level (dBuV/m)										



Modulation		ax HE160			Test Freq. (MHz)		6505																																																																																																																												
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Polarization		Vertical							
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):68			
Level (dBuV/m)									



Modulation		ax HE160		Test Freq. (MHz)		6665																																																																																																																												
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