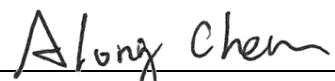


FCC Test Report

FCC ID : I8811AXAP246E
Equipment : 802.11ax (WiFi 6E) Dual-Radio Unified Pro
Access Point
(Refer to item 1.1.1 for more details)
Model No. : WAX620D-6E
(Refer to item 1.1.1 for more details)
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science
Park, Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.407
Equipment Class / Type : ☒ 6ID: Indoor access point
☐ 6PP: Subordinate device
☐ 6XD: Client device
Received Date : May 17, 2022
Tested Date : May 20 ~ Jun. 30, 2022

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

Reviewed by:


Along Chen / Assistant Manager

Approved by:

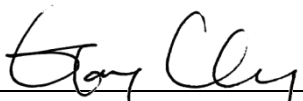

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR251702AO	Rev. 01	Initial issue	Jul. 20, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.435MHz 33.99 (Margin -13.16dB) - AV	Pass
15.407(b)(5) 15.209	Unwanted Emission	[dBuV/m at 3m]: 5925.00MHz 67.90 (Margin -0.30dB) - 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: 22.65 6.425-6.525MHz: 19.70 6.525-6.875MHz: 21.27 6.875-7.125MHz: 22.77 Beamforming mode 5.925-6.425MHz: 16.63 6.425-6.525MHz: 13.68 6.525-6.875MHz: 15.25 6.875-7.125MHz: 16.75	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 Product Details

The following models are provided to this EUT.

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

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
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/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation. Note 2: 802.11ax supports beamforming function.					

1.1.3 Antenna Details

Ant. No.	Brand / Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				Remark
				5925 ~ 6425	6425 ~ 6525	6525 ~ 6875	6875 ~ 7125	
1	MSTC / P4	PIFA	UFL	3.47	3.78	4.25	3.15	Ceiling mounted: Antenna 4 / 6 / 7 / 8 Wall mounted: Antenna 5 / 7 / 8 / 9
2	MSTC / P5	PIFA	UFL	4.03	4.15	4.9	3.18	
3	MSTC / P6	PIFA	UFL	4.12	4.54	5.23	3.27	
4	MSTC / P7	PIFA	UFL	3.63	3.8	4.37	3.21	
5	MSTC / P8	PIFA	UFL	4.02	4.87	6.83	3.5	
6	MSTC / P9	PIFA	UFL	3.73	4.1	4.79	3.61	

1.1.4 Power Supply Type of Equipment under Test (EUT)

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

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

1.1.5 Accessories

N/A

1.1.6 Channel List

802.11a 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

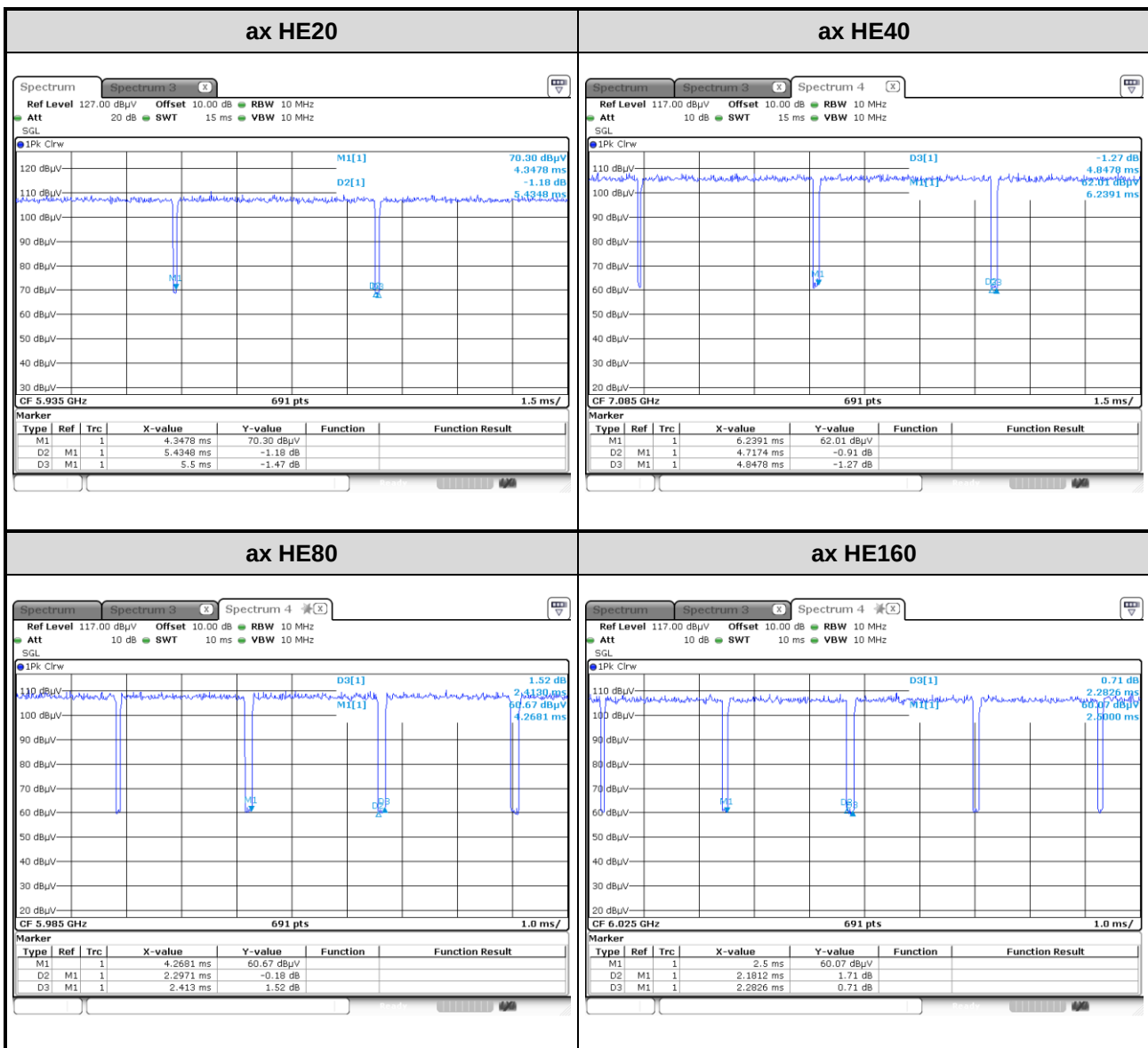
802.11a ax HE40							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	5965	67	6285	131	6605	195	6925
11	6005	75	6325	139	6645	203	6965
19	6045	83	6365	147	6685	211	7005
27	6085	91	6405	155	6725	219	7045
35	6125	99	6445	163	6765	227	7085
43	6165	107	6485	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	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	QPSR, Version: V5.0-00200		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ax HE20	98.81%	0.05
	ax HE40	97.31%	0.12
	ax HE80	95.20%	0.21
	ax HE160	95.56%	0.20



1.1.8 Power Index of Test Tool

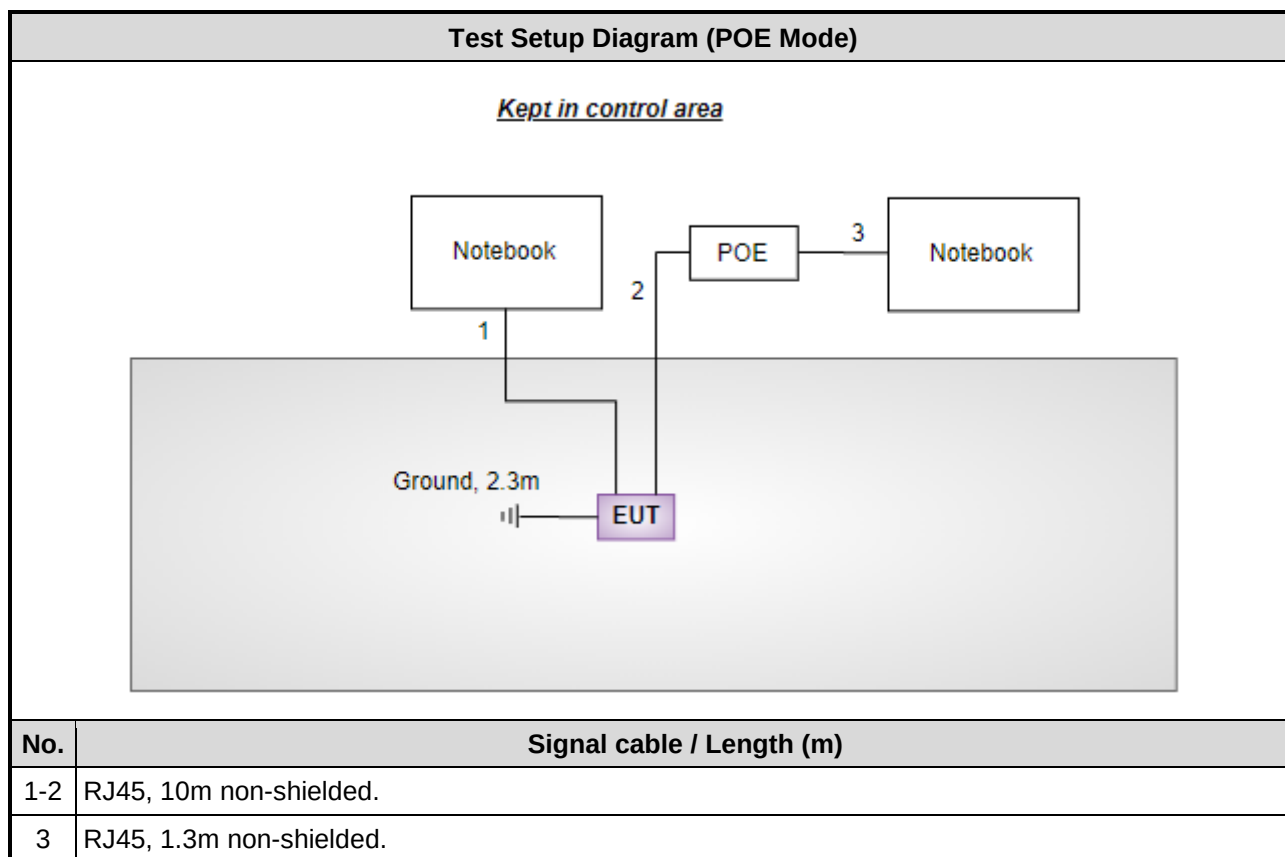
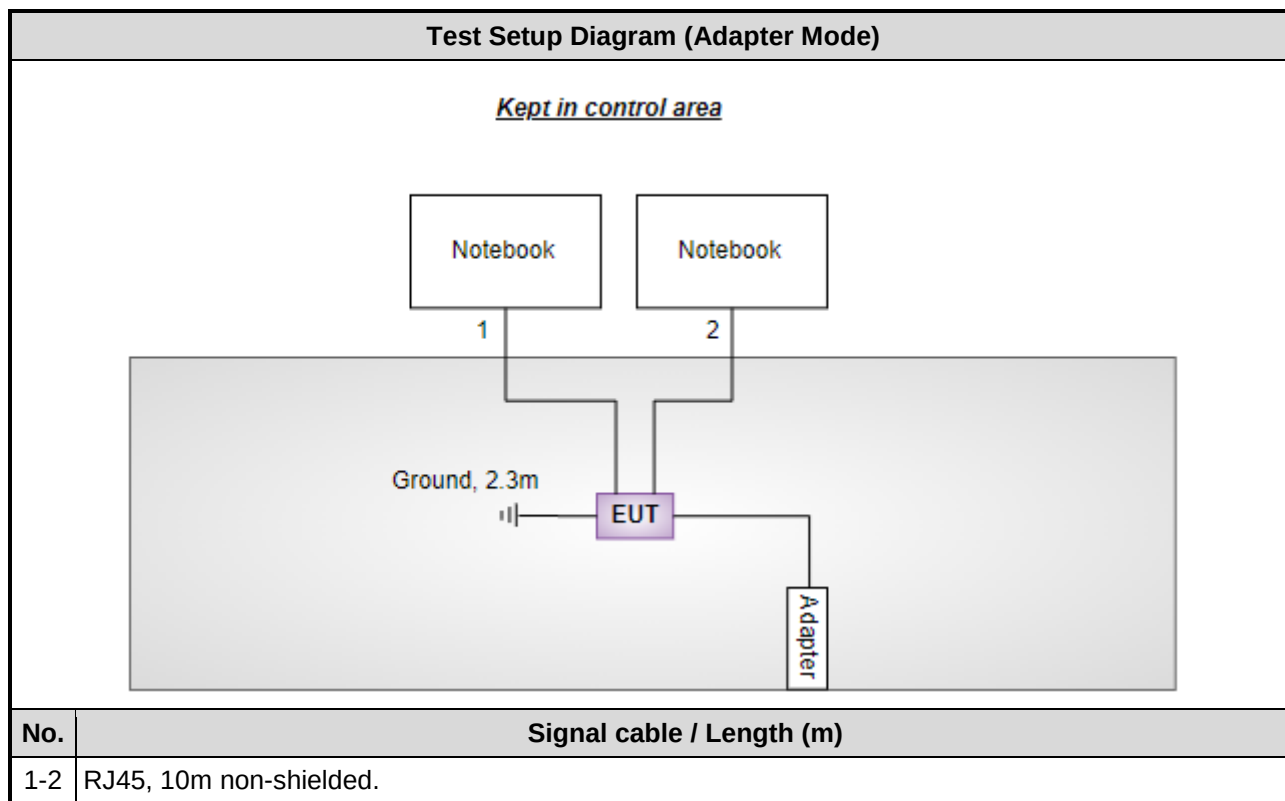
Modulation Mode	Test Frequency (MHz)	Power Index
HE20	5935	1.5
HE20	5955	7
HE20	6175	7
HE20	6415	7
HE20	6435	6.5
HE20	6475	6.5
HE20	6515	6.5
HE20	6535	5.5
HE20	6715	5
HE20	6855	6
HE20	6875	6
HE20	6895	7.5
HE20	7015	7.5
HE20	7095	7.5
HE20	7115	5
HE40	5965	10.5
HE40	6165	10.5
HE40	6405	10.5
HE40	6445	10
HE40	6485	10
HE40	6525	9
HE40	6565	9
HE40	6725	9
HE40	6845	9
HE40	6885	9
HE40	6925	10.5
HE40	7005	10.5
HE40	7085	10.5

Modulation Mode	Test Frequency (MHz)	Power Index
HE80	5985	13.5
HE80	6145	13.5
HE80	6385	13.5
HE80	6465	13
HE80	6545	12
HE80	6625	12
HE80	6705	12
HE80	6785	12
HE80	6865	12
HE80	6945	13.5
HE80	7025	13.5
HE160	6025	16.5
HE160	6185	16.5
HE160	6345	16.5
HE160	6505	15
HE160	6665	14.5
HE160	6825	14.5
HE160	6985	16

1.2 Local Support Equipment List

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

1.3 Test Setup Chart



1.4 The Equipment List

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

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	May 20 ~ Jun. 01, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jun. 01 ~ Jun. 15, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GTH-150-40-CP-AR-T	MAA1407-012	Sep. 08, 2021	Sep. 07, 2022
DC POWER SOURCE	GW INSTRON	GPC-6030D	GES855395	Nov. 08, 2021	Nov. 07, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.20	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

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	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.96 dB
Radiated emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

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

2.2 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	6985	MCS 0	1, 2
Unwanted Emissions ≤1GHz	ax HE160	6985	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

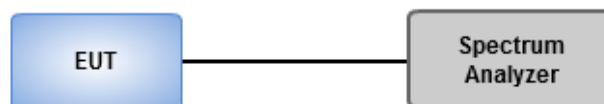
26dB Bandwidth

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°C / 67%	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

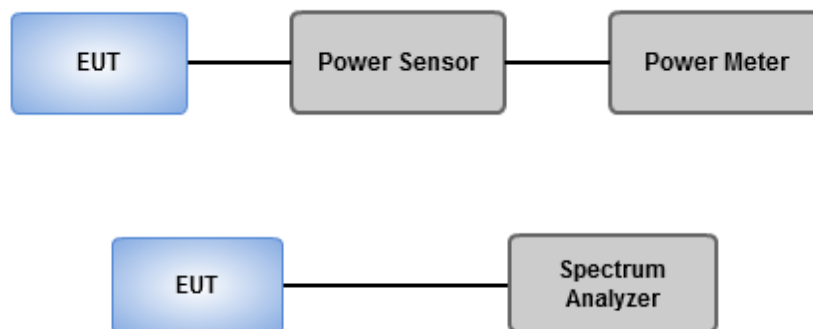
Method PM-G (Measurement using a gated RF average power meter)

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°C / 67%	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

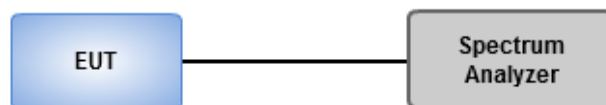
Duty cycle $\geq$ 98 %

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°C / 67%	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

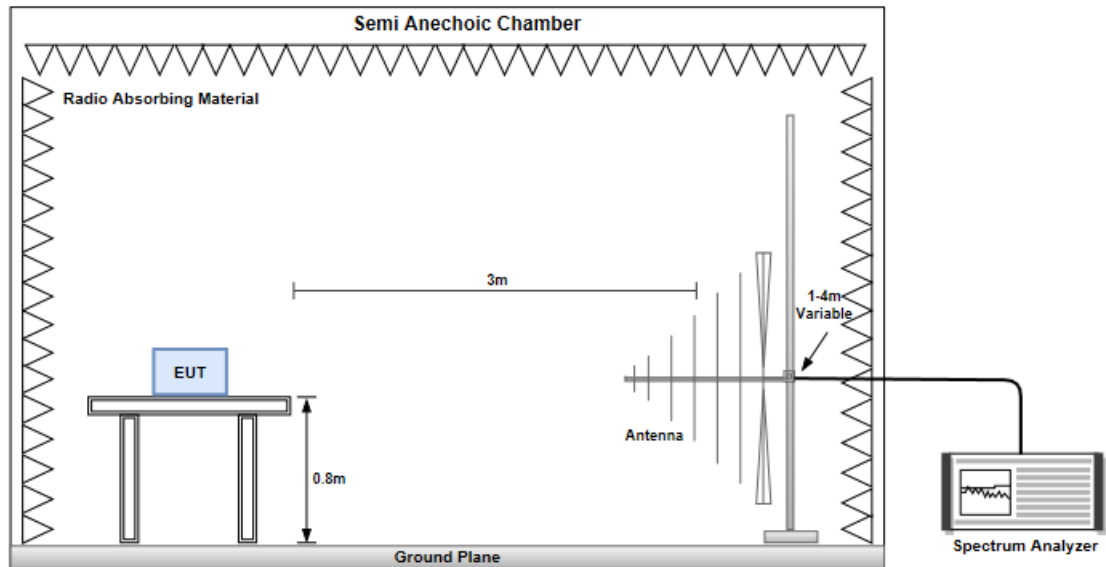
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360° . A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

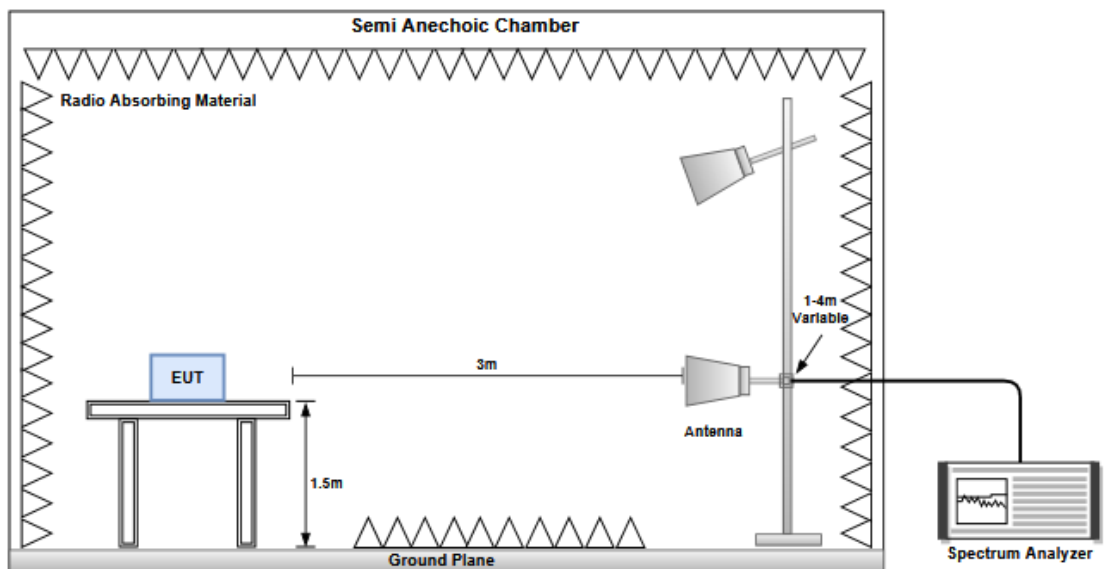
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



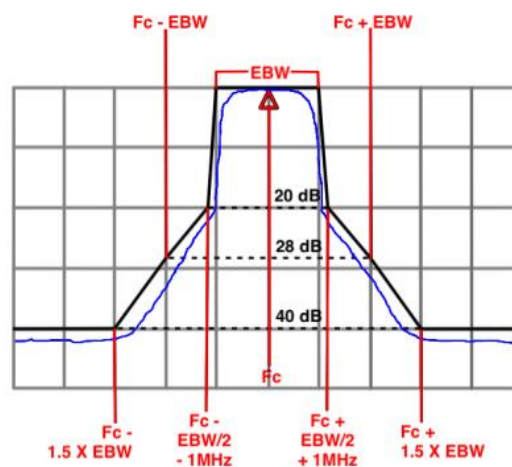
3.4.4 Test Results

Refer to Appendix D.

3.5 In-Band Emissions

3.5.1 Limit

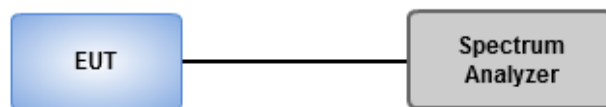
Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel 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°C / 67%	Tested By	Roger Lu
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Refer to Appendix E.

3.6 Frequency Stability

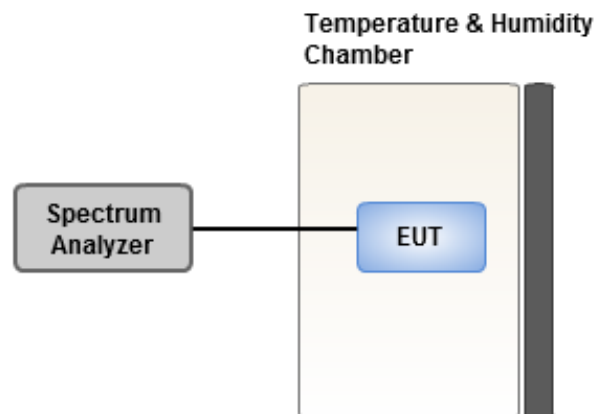
3.6.1 Limit of Frequency Stability

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°C / 67%	Tested By	Roger Lu
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Refer to Appendix F.

3.7 Contention Based Protocol

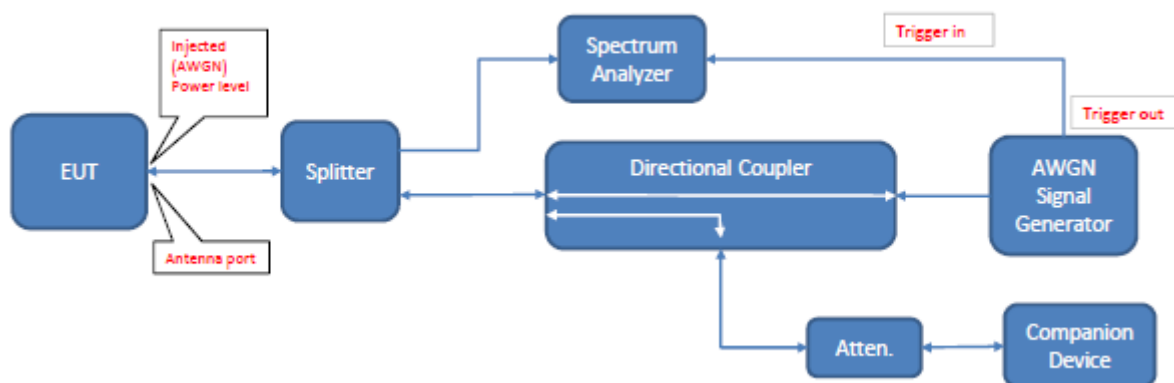
3.7.1 Limit

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°C / 67%	Tested By	Aska Huang
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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

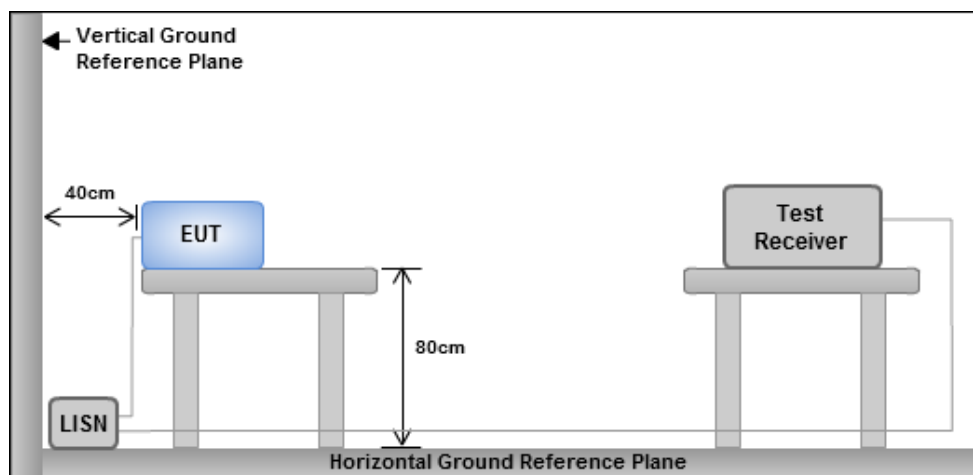
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.38M	19.16M	19M2D1D	21.57M	19.01M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.62M	37.901M	37M9D1D	40.2M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.68M	77.481M	77M5D1D	81.96M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.84M	155.202M	155MD1D	163.92M	154.723M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.2M	19.1M	19M1D1D	21.48M	19.04M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.62M	37.841M	37M8D1D	40.2M	37.781M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.2M	77.481M	77M5D1D	81.96M	77.361M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.29M	19.1M	19M1D1D	21.54M	19.04M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.8M	37.901M	37M9D1D	40.14M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.68M	77.481M	77M5D1D	81.6M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.6M	155.442M	155MD1D	163.44M	154.483M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.35M	19.1M	19M1D1D	21.51M	19.04M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.68M	37.901M	37M9D1D	40.2M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.44M	77.361M	77M4D1D	81.6M	77.121M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.36M	154.723M	155MD1D	163.68M	154.723M

Max-N dB = Maximum 26dB down bandwidth

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX										
5935MHz	Pass	Inf	21.96M	19.13M	22.38M	19.16M	21.72M	19.13M	21.9M	19.13M
5955MHz	Pass	Inf	21.72M	19.1M	21.66M	19.07M	22.02M	19.01M	21.63M	19.04M
6175MHz	Pass	Inf	21.9M	19.1M	21.75M	19.04M	22.02M	19.04M	21.75M	19.04M
6415MHz	Pass	Inf	21.78M	19.1M	21.57M	19.1M	21.69M	19.07M	22.05M	19.07M
6435MHz	Pass	Inf	21.9M	19.1M	21.84M	19.07M	21.93M	19.1M	21.9M	19.07M
6475MHz	Pass	Inf	22.14M	19.1M	21.57M	19.04M	21.51M	19.07M	21.81M	19.07M
6515MHz	Pass	Inf	22.2M	19.1M	21.48M	19.04M	21.66M	19.1M	21.9M	19.07M
6535MHz	Pass	Inf	22.02M	19.1M	21.84M	19.04M	21.81M	19.1M	22.05M	19.07M
6715MHz	Pass	Inf	22.05M	19.1M	21.72M	19.07M	21.72M	19.07M	21.54M	19.07M
6855MHz	Pass	Inf	22.08M	19.07M	21.9M	19.04M	22.29M	19.04M	22.05M	19.1M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	21.72M	19.1M	21.84M	19.07M	21.93M	19.07M	22.29M	19.07M
6895MHz	Pass	Inf	21.75M	19.1M	21.66M	19.07M	21.57M	19.04M	21.81M	19.07M
7015MHz	Pass	Inf	21.69M	19.07M	21.81M	19.07M	21.6M	19.04M	21.93M	19.07M
7095MHz	Pass	Inf	21.72M	19.07M	21.99M	19.07M	21.87M	19.07M	21.75M	19.07M
7115MHz	Pass	Inf	21.57M	19.07M	22.35M	19.07M	21.69M	19.07M	21.51M	19.07M
802.11ax HEW40_Nss4,(MCS0)_4TX										
5965MHz	Pass	Inf	40.5M	37.781M	40.26M	37.841M	40.62M	37.841M	40.38M	37.781M
6165MHz	Pass	Inf	40.62M	37.841M	40.2M	37.721M	40.62M	37.841M	40.5M	37.841M
6405MHz	Pass	Inf	40.32M	37.781M	40.32M	37.781M	40.32M	37.781M	40.62M	37.901M
6445MHz	Pass	Inf	40.38M	37.841M	40.62M	37.781M	40.5M	37.781M	40.2M	37.841M
6485MHz	Pass	Inf	40.5M	37.841M	40.38M	37.841M	40.2M	37.841M	40.32M	37.841M
6525MHz Straddle 6.525-6.875GHz	Pass	Inf	40.38M	37.841M	40.38M	37.721M	40.44M	37.781M	40.62M	37.781M
6565MHz	Pass	Inf	40.26M	37.841M	40.32M	37.841M	40.38M	37.781M	40.62M	37.841M
6725MHz	Pass	Inf	40.38M	37.841M	40.2M	37.841M	40.14M	37.781M	40.56M	37.781M
6845MHz	Pass	Inf	40.68M	37.781M	40.44M	37.781M	40.14M	37.841M	40.8M	37.841M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	40.44M	37.781M	40.44M	37.901M	40.62M	37.841M	40.62M	37.841M
6925MHz	Pass	Inf	40.5M	37.901M	40.5M	37.781M	40.32M	37.781M	40.38M	37.781M
7005MHz	Pass	Inf	40.44M	37.841M	40.38M	37.781M	40.38M	37.721M	40.44M	37.781M
7085MHz	Pass	Inf	40.5M	37.781M	40.2M	37.721M	40.68M	37.721M	40.2M	37.781M
802.11ax HEW80_Nss4,(MCS0)_4TX										
5985MHz	Pass	Inf	82.44M	77.241M	82.2M	77.241M	82.32M	77.241M	82.08M	77.361M
6145MHz	Pass	Inf	82.2M	77.241M	82.08M	77.361M	81.96M	77.361M	81.96M	77.241M
6385MHz	Pass	Inf	82.56M	77.481M	82.68M	77.241M	82.2M	77.361M	82.08M	77.361M
6465MHz	Pass	Inf	82.2M	77.481M	82.2M	77.361M	81.96M	77.361M	82.2M	77.361M
6545MHz Straddle 6.525-6.875GHz	Pass	Inf	82.08M	77.241M	81.6M	77.241M	81.84M	77.361M	81.72M	77.241M
6625MHz	Pass	Inf	82.32M	77.361M	82.44M	77.361M	82.08M	77.361M	81.84M	77.241M
6705MHz	Pass	Inf	81.96M	77.361M	81.96M	77.481M	81.84M	77.361M	81.96M	77.241M

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)
6785MHz	Pass	Inf	82.08M	77.481M	81.96M	77.241M	81.96M	77.241M	82.2M	77.361M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	82.68M	77.361M	82.32M	77.361M	81.72M	77.361M	81.84M	77.361M
6945MHz	Pass	Inf	81.96M	77.241M	81.96M	77.241M	81.84M	77.361M	82.08M	77.241M
7025MHz	Pass	Inf	81.6M	77.361M	81.84M	77.121M	82.2M	77.241M	82.44M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX										
6025MHz	Pass	Inf	164.88M	154.963M	165.84M	154.963M	164.88M	154.963M	164.88M	154.723M
6185MHz	Pass	Inf	164.4M	155.202M	164.16M	154.963M	164.16M	154.963M	165.12M	154.963M
6345MHz	Pass	Inf	163.92M	154.963M	164.16M	154.963M	165.12M	155.202M	164.64M	154.963M
6505MHz Straddle 6.525-6.875GHz	Pass	Inf	164.88M	154.963M	164.16M	154.963M	164.88M	155.202M	164.16M	155.202M
6665MHz	Pass	Inf	164.4M	154.963M	163.92M	154.723M	164.88M	155.442M	165.12M	155.202M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	165.6M	154.963M	164.64M	154.963M	164.88M	154.963M	163.44M	154.483M
6985MHz	Pass	Inf	164.64M	154.723M	164.64M	154.723M	165.36M	154.723M	163.68M	154.723M

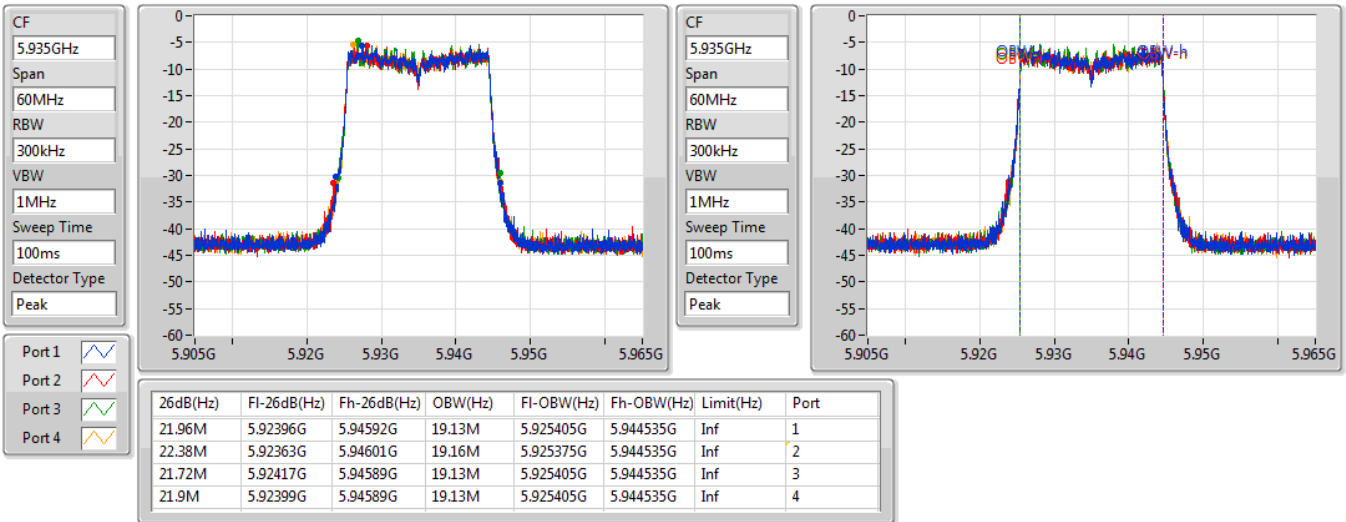
Port X-N dB = Port X 26dB down bandwidth

Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

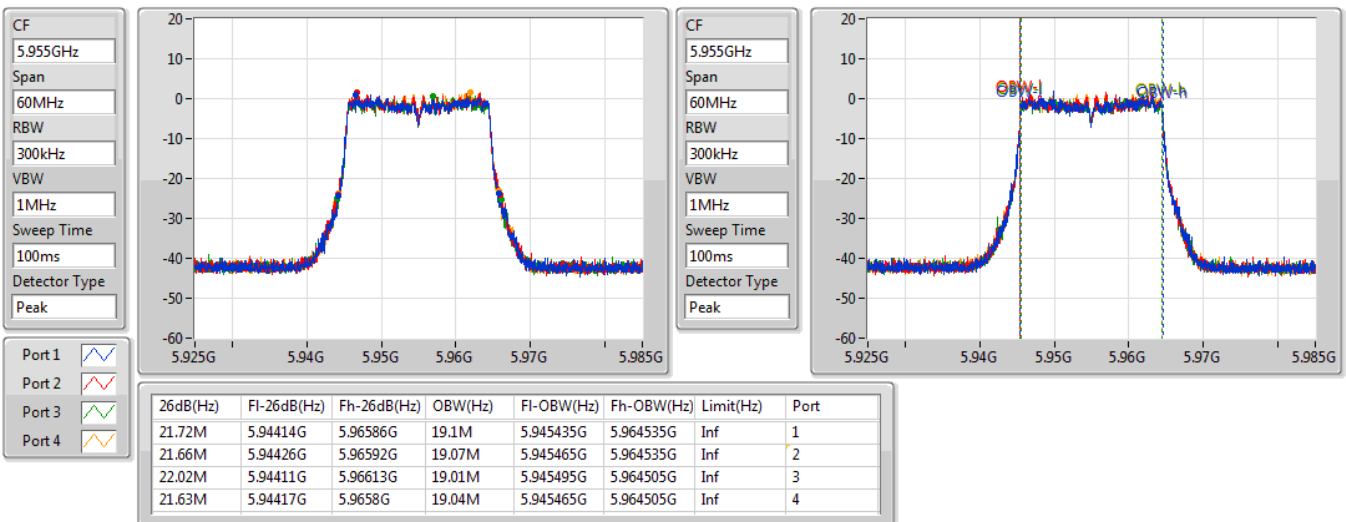
5935MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

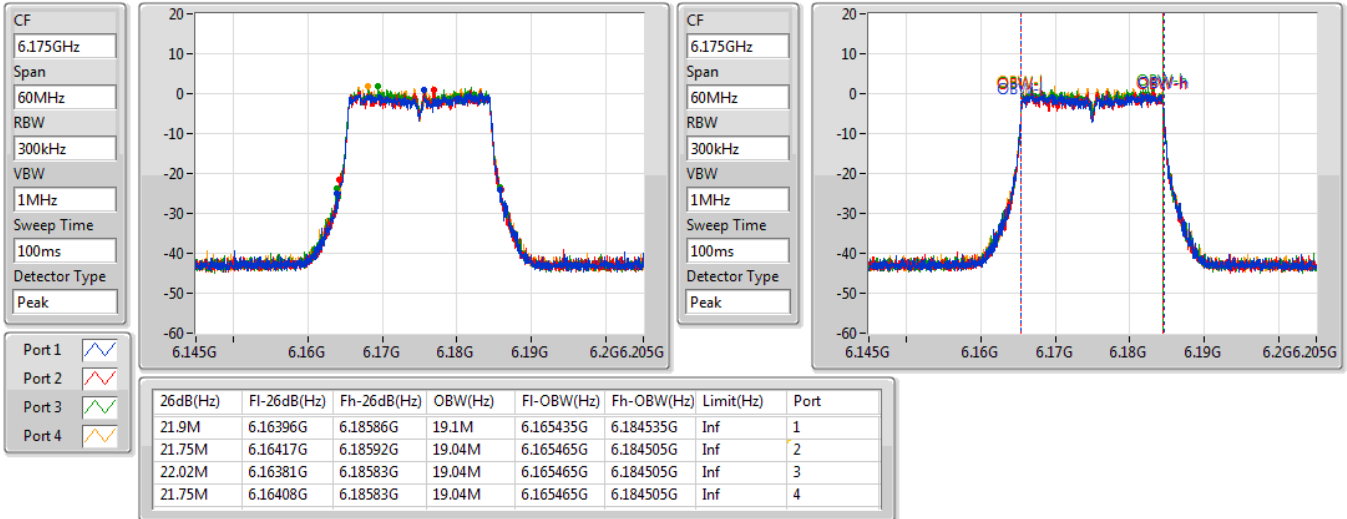
5955MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

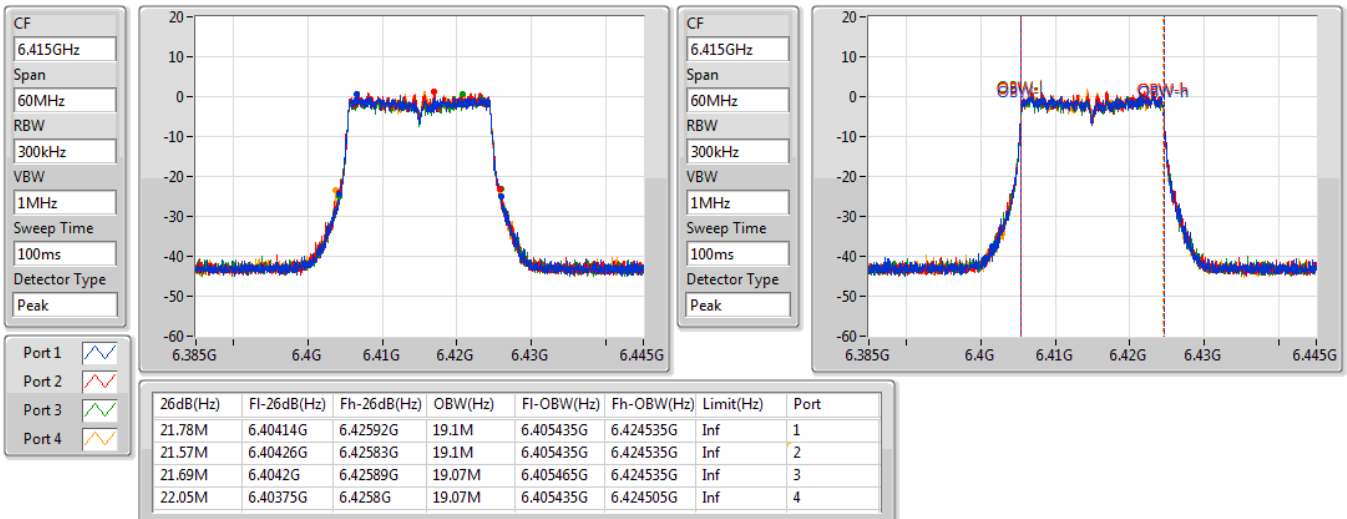
6175MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

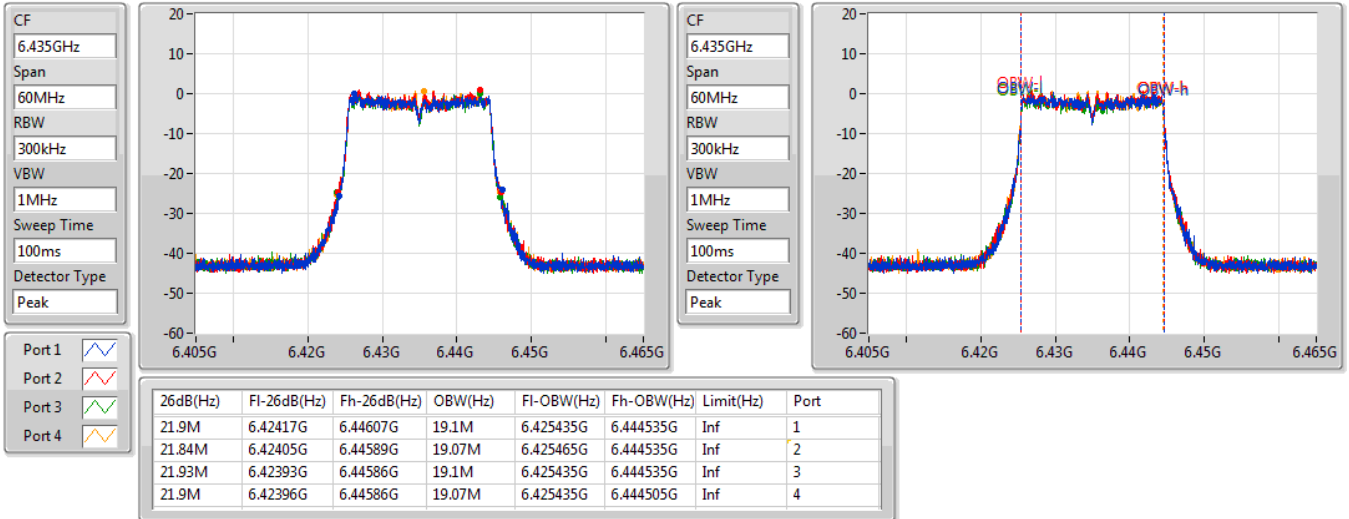
6415MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

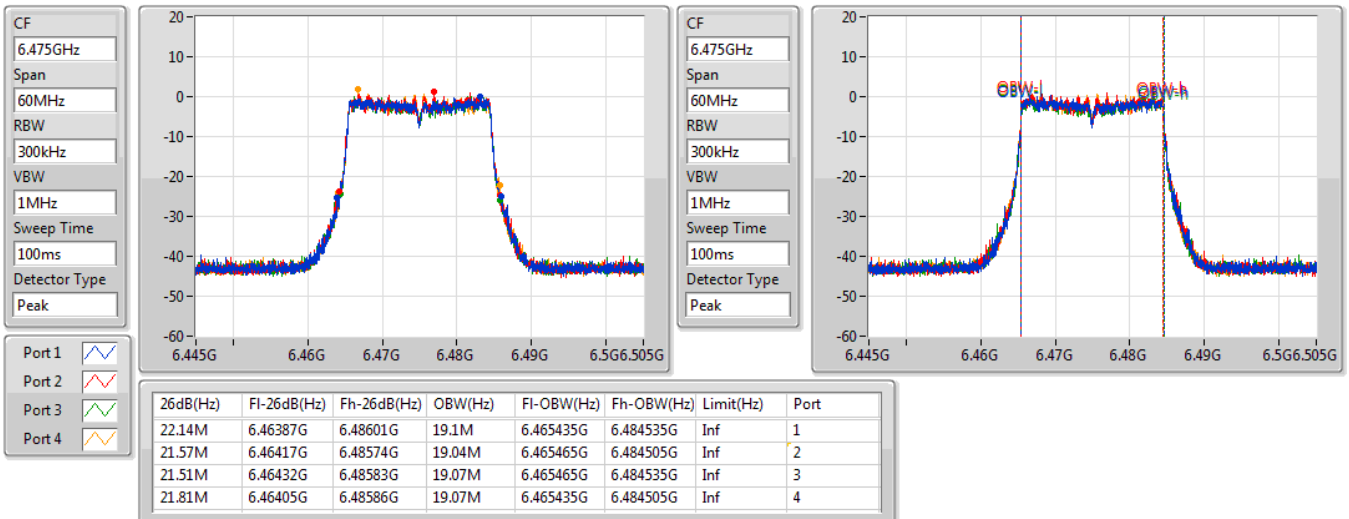
6435MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

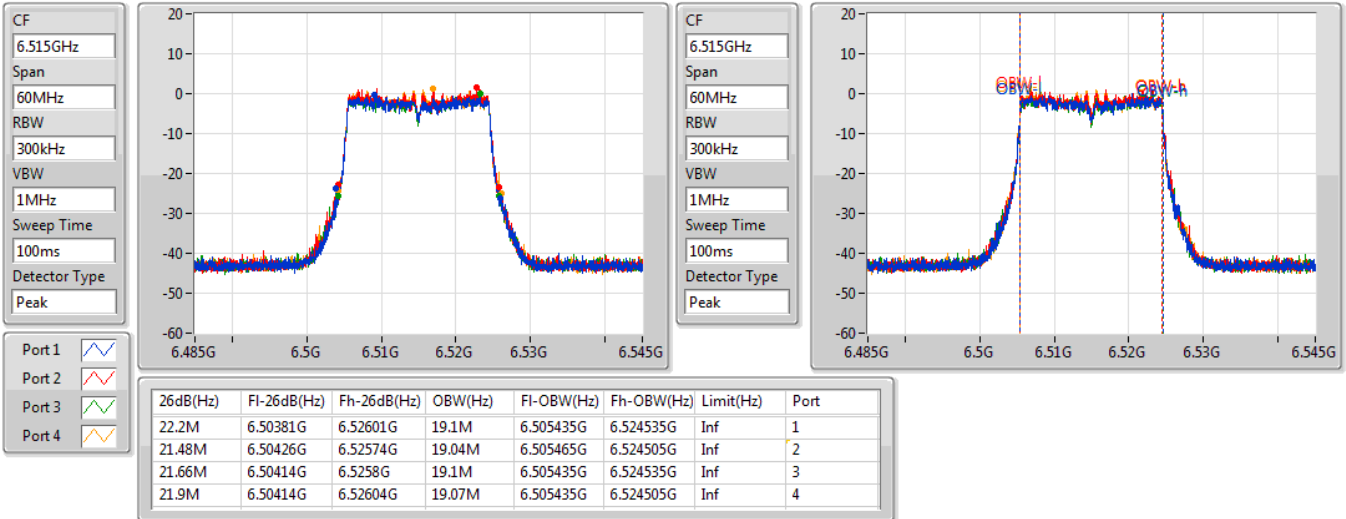
6475MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

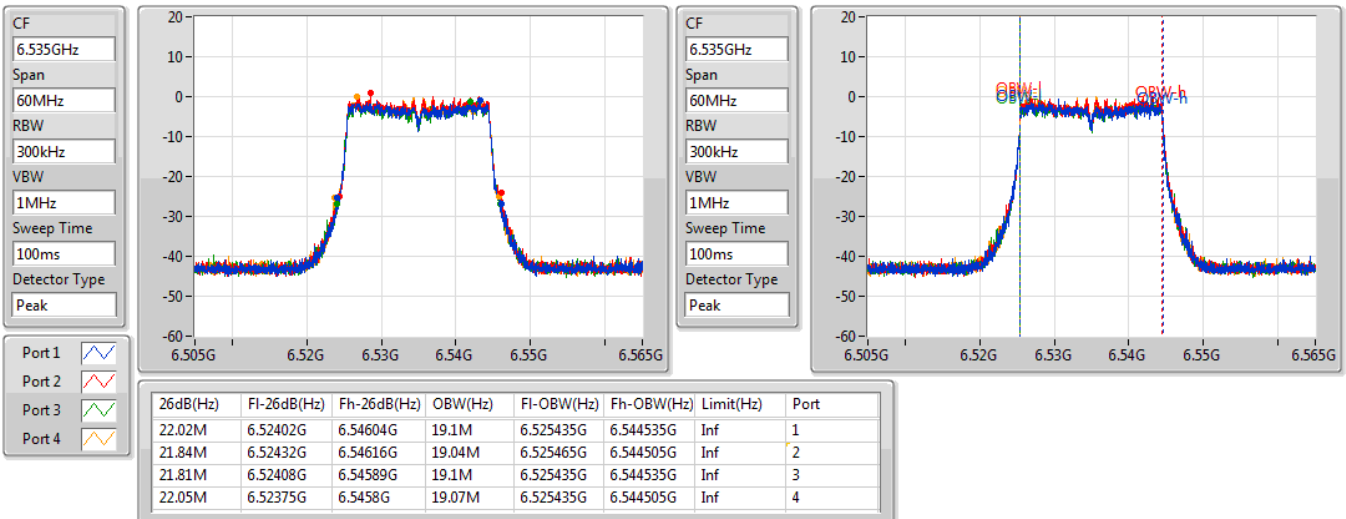
6515MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

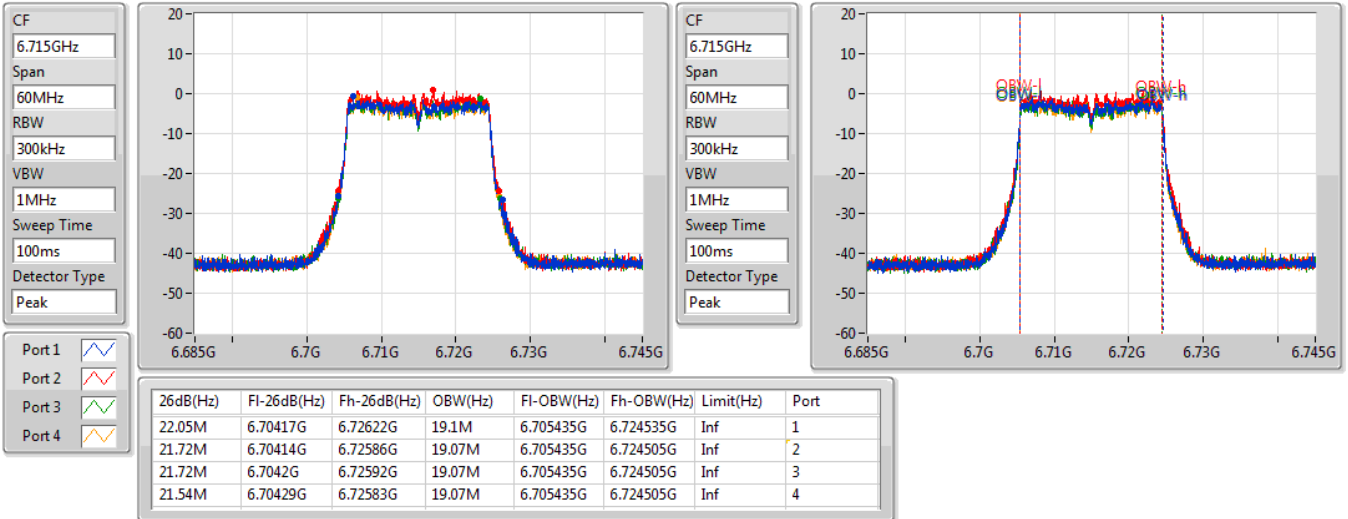
6535MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

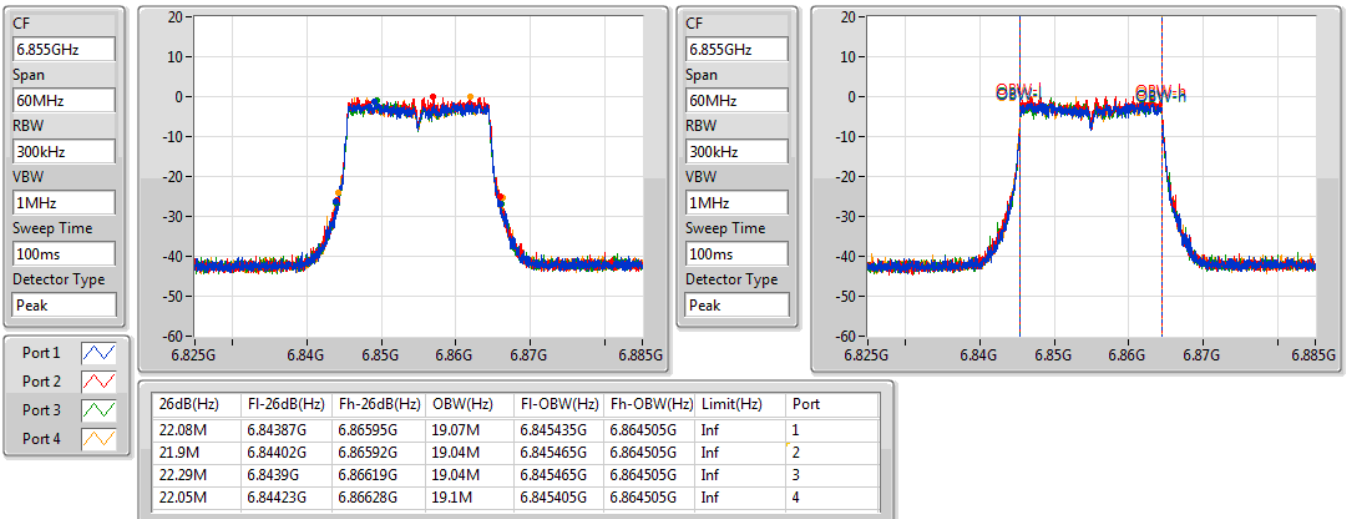
6715MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

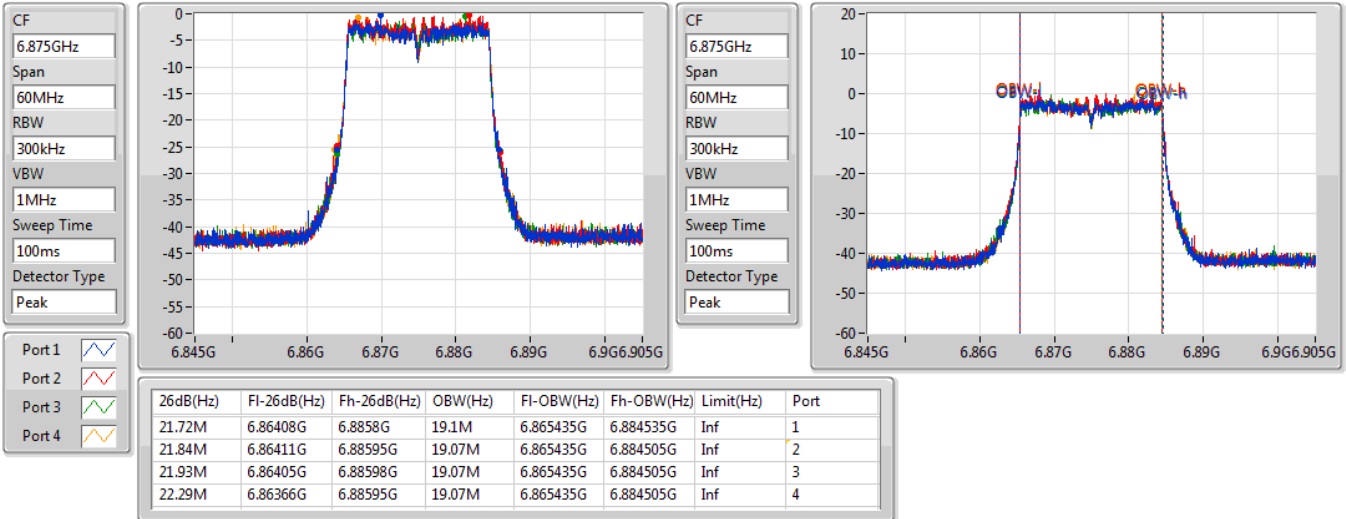
6855MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

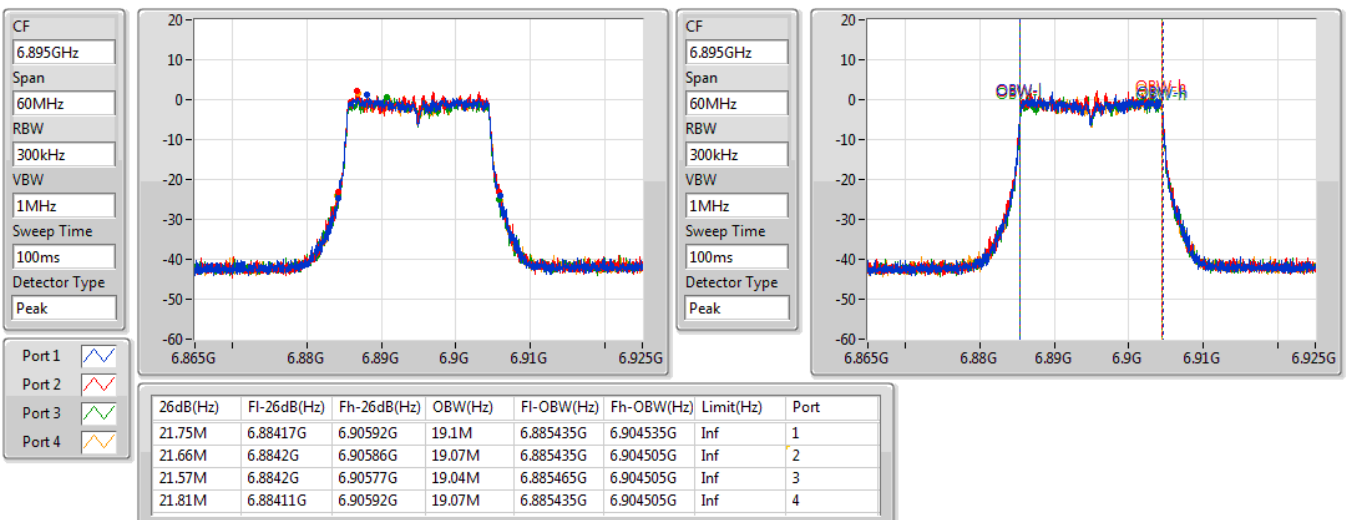
6875MHz Straddle 6.525-6.875GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

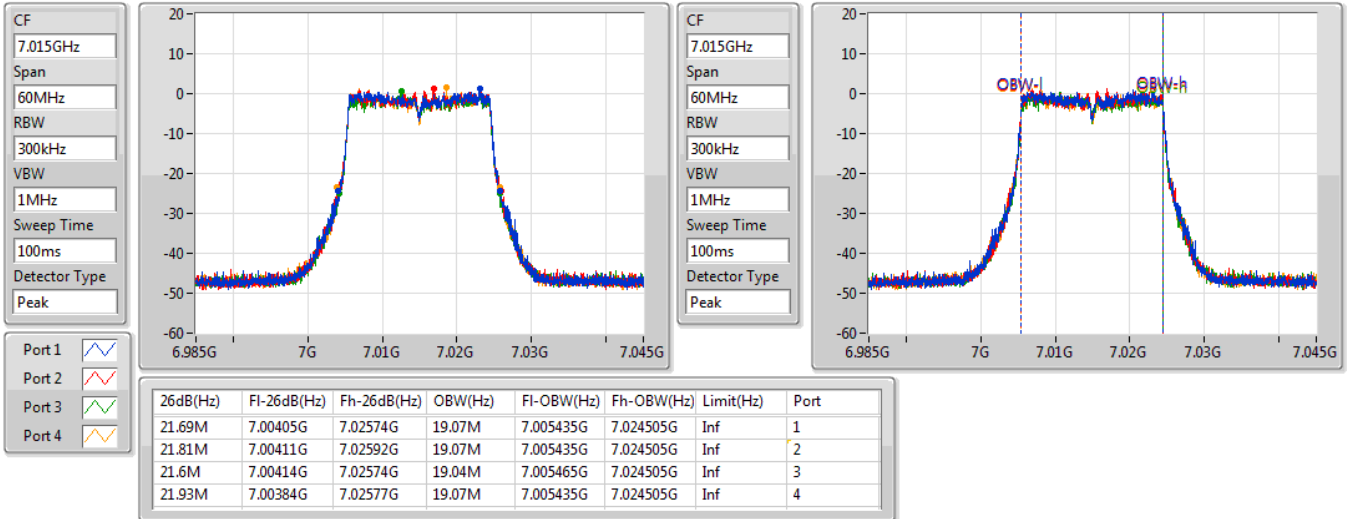
6895MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

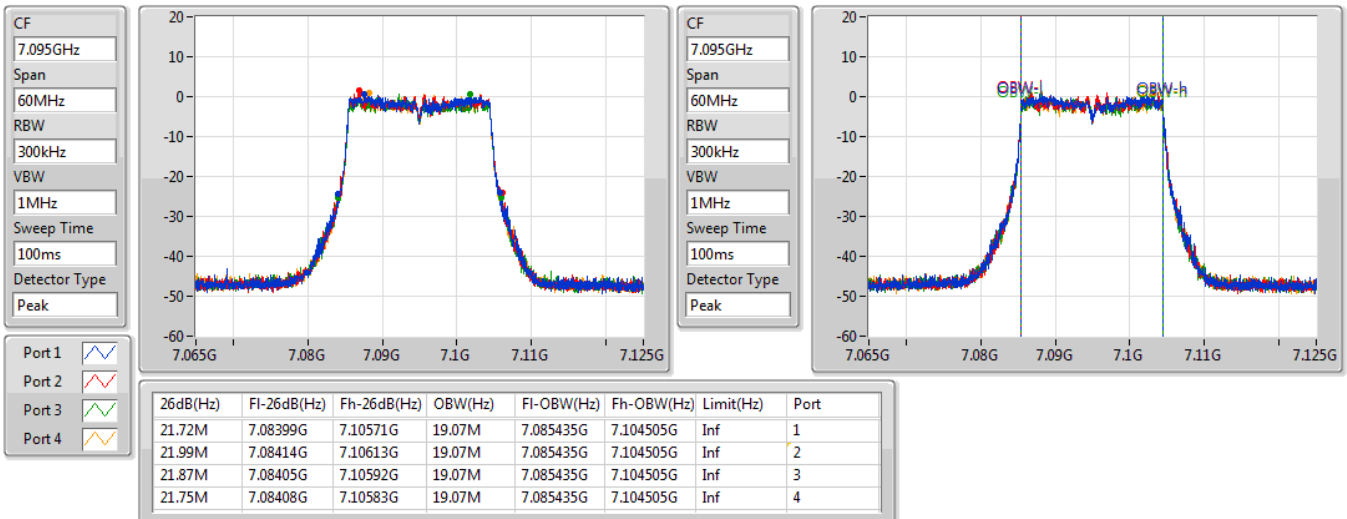
7015MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

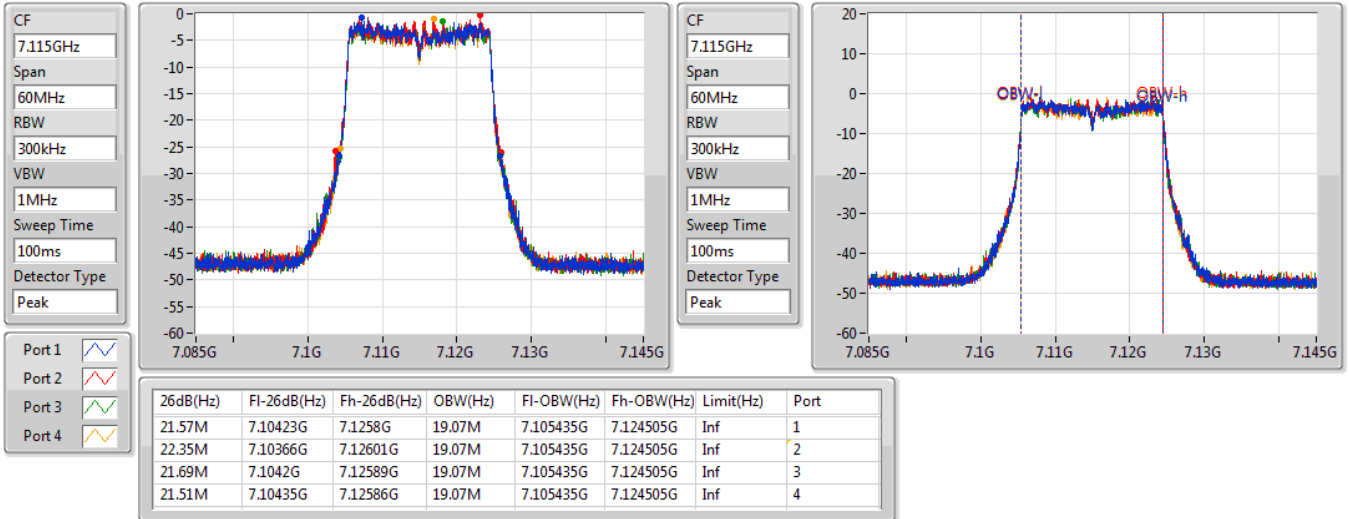
7095MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

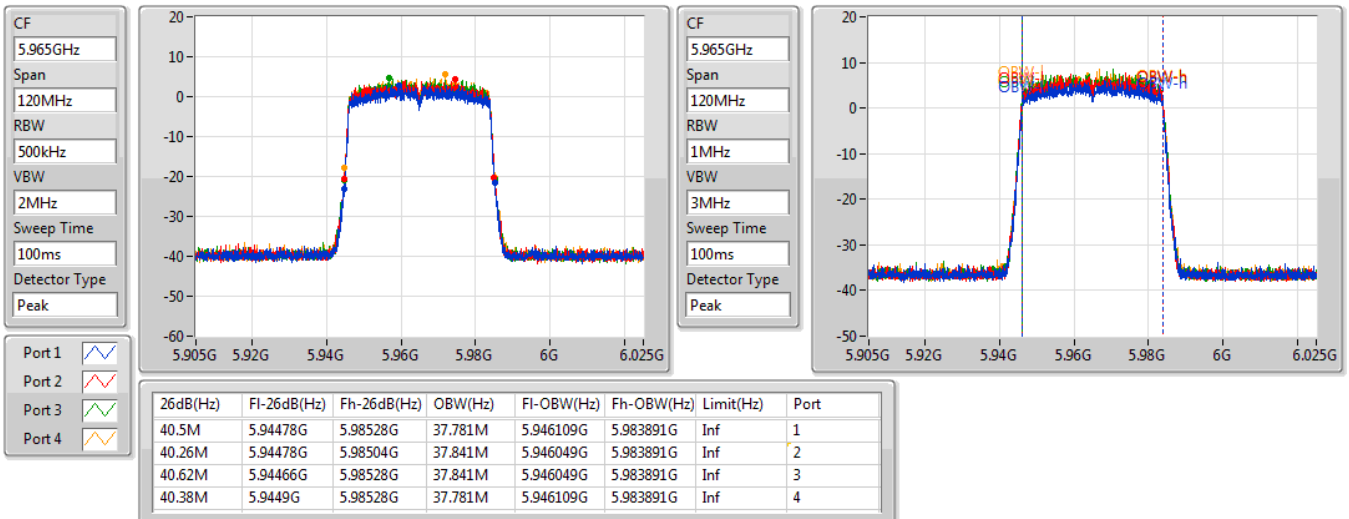
7115MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

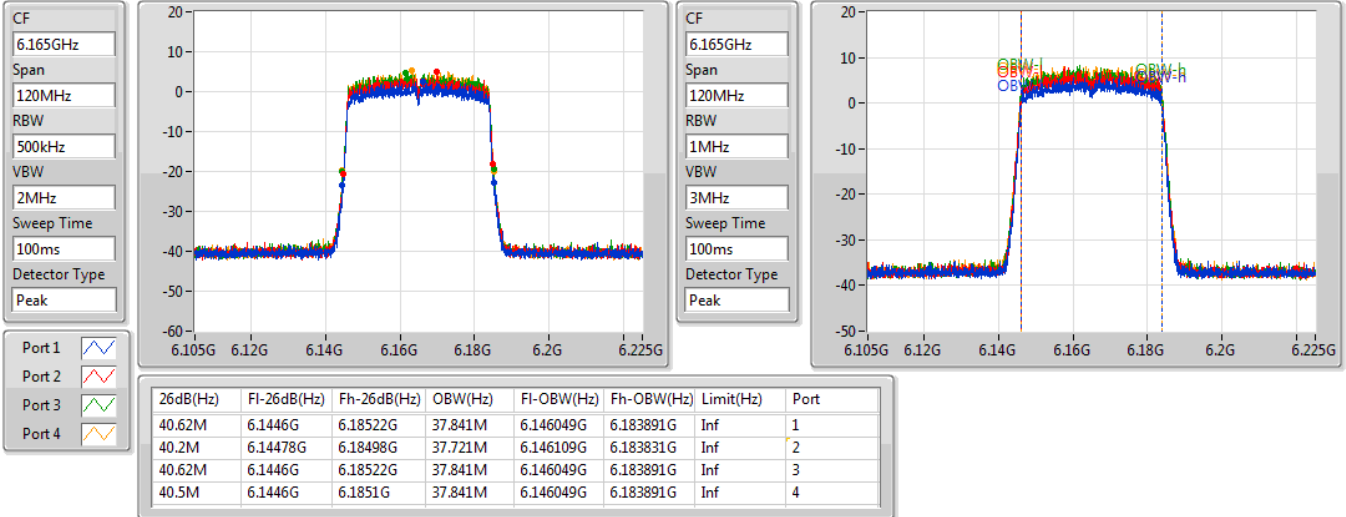
5965MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

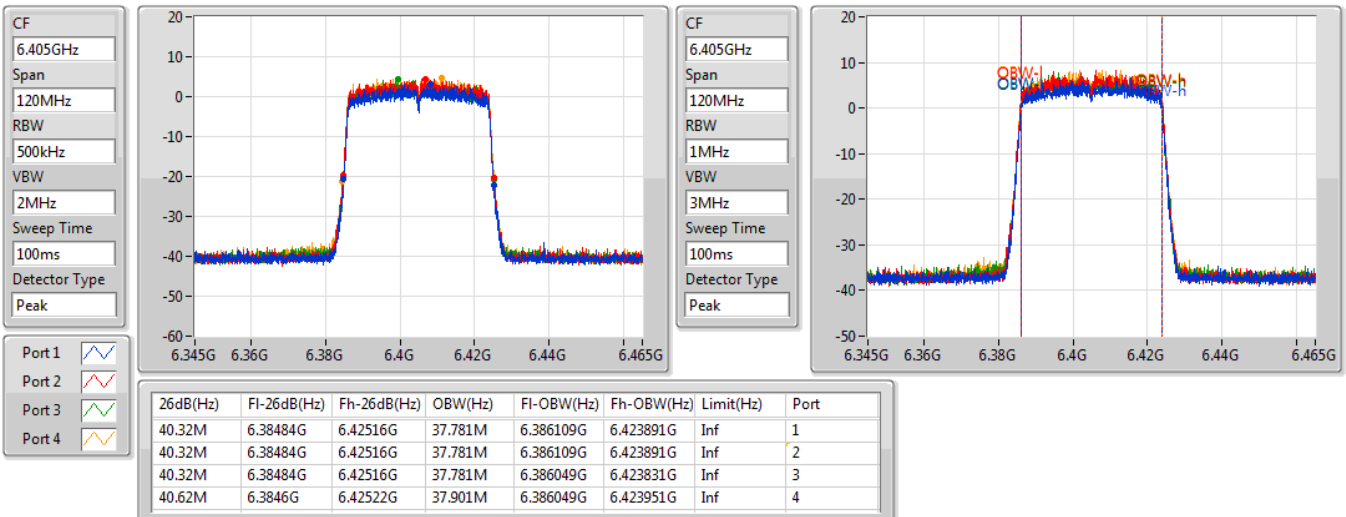
6165MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

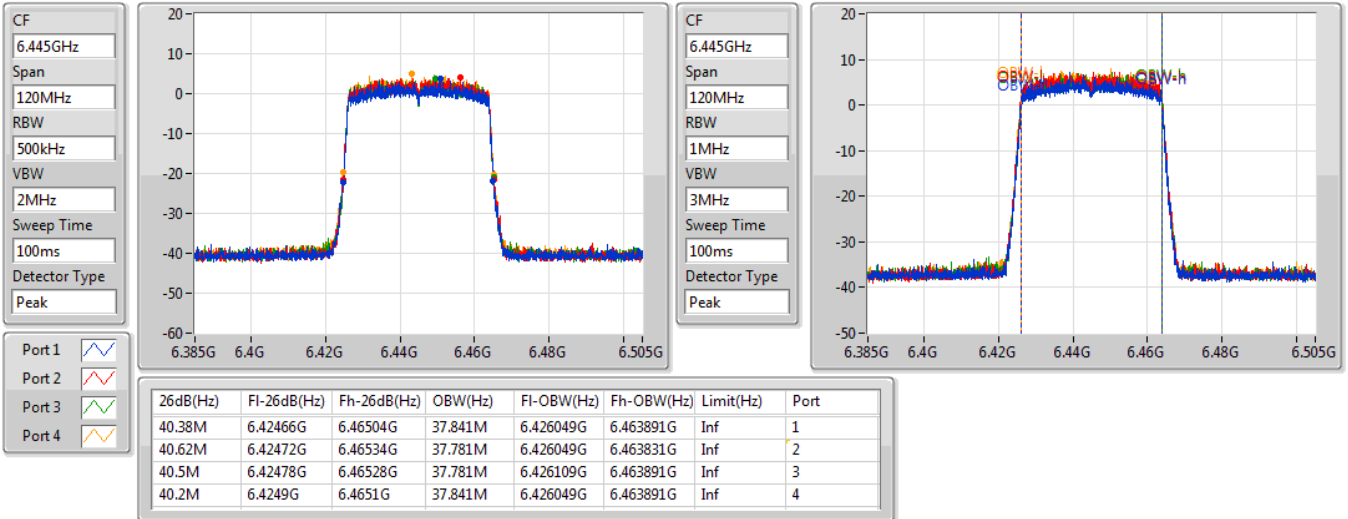
6405MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

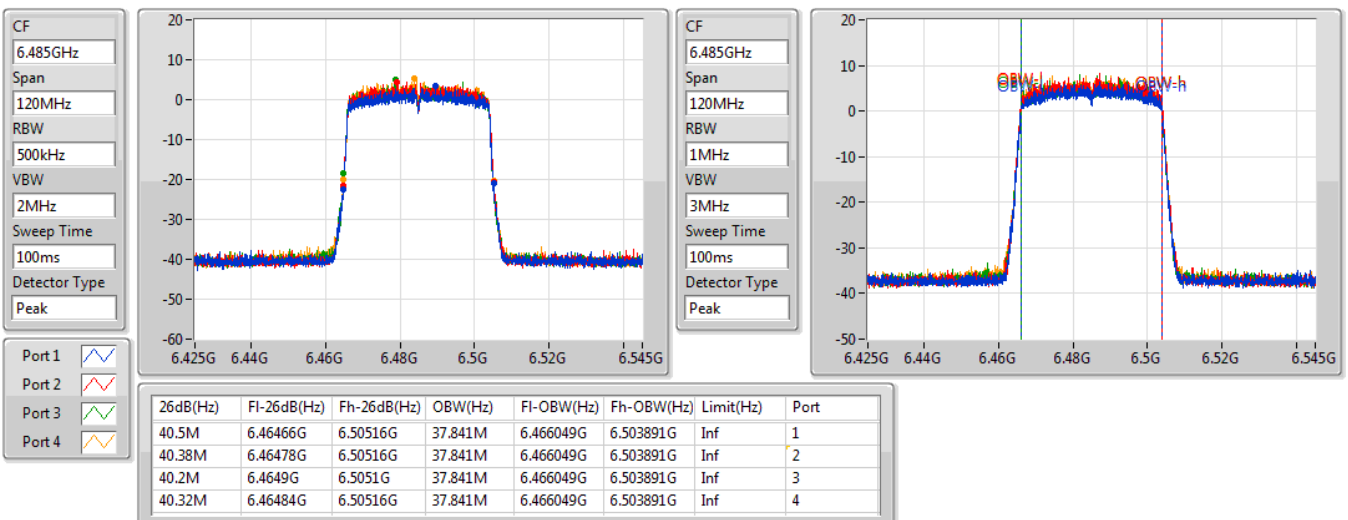
6445MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

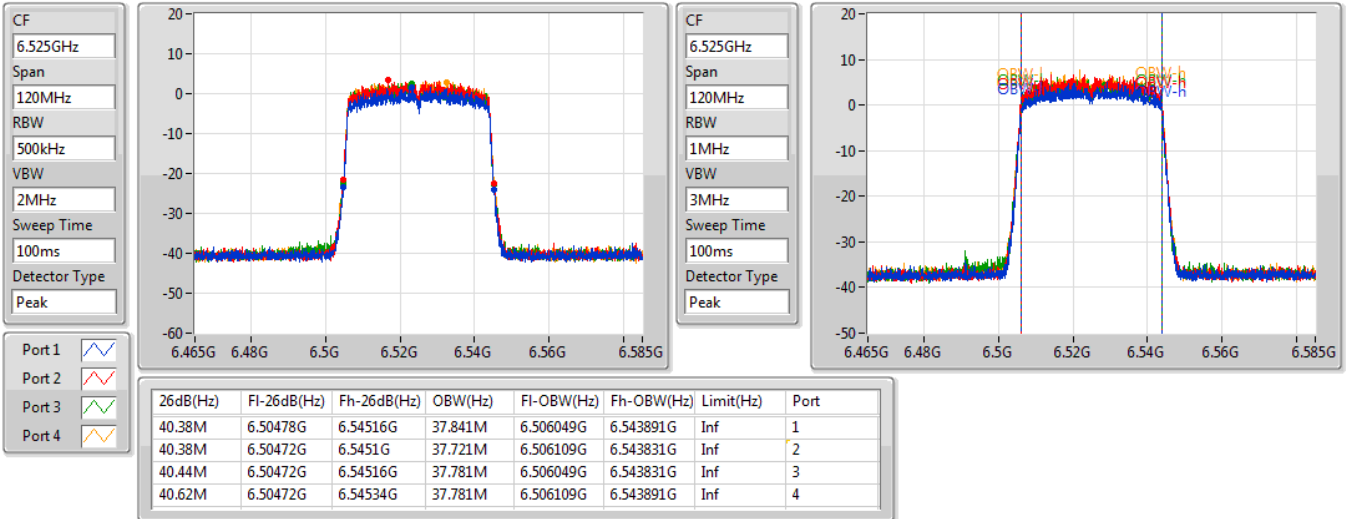
6485MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

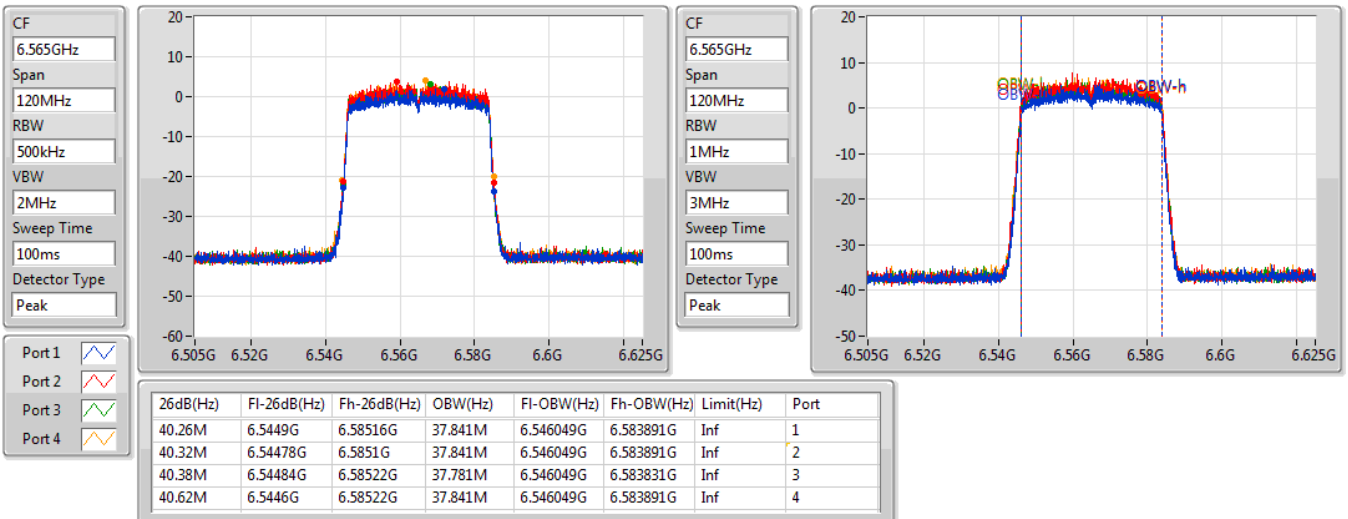
6525MHz Straddle 6.525-6.875GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

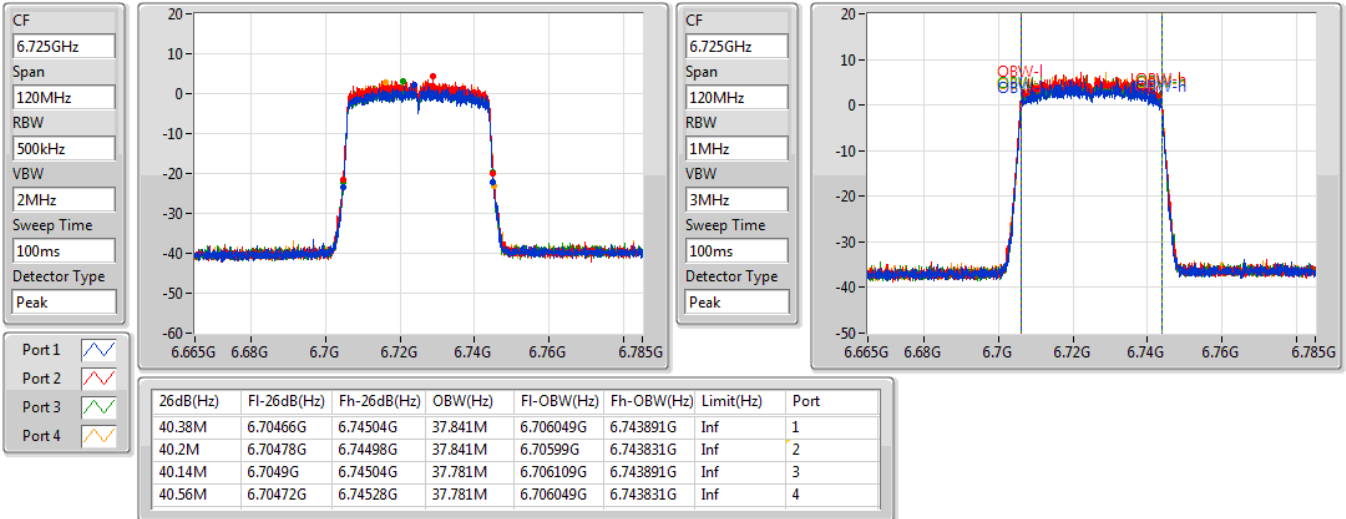
6565MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

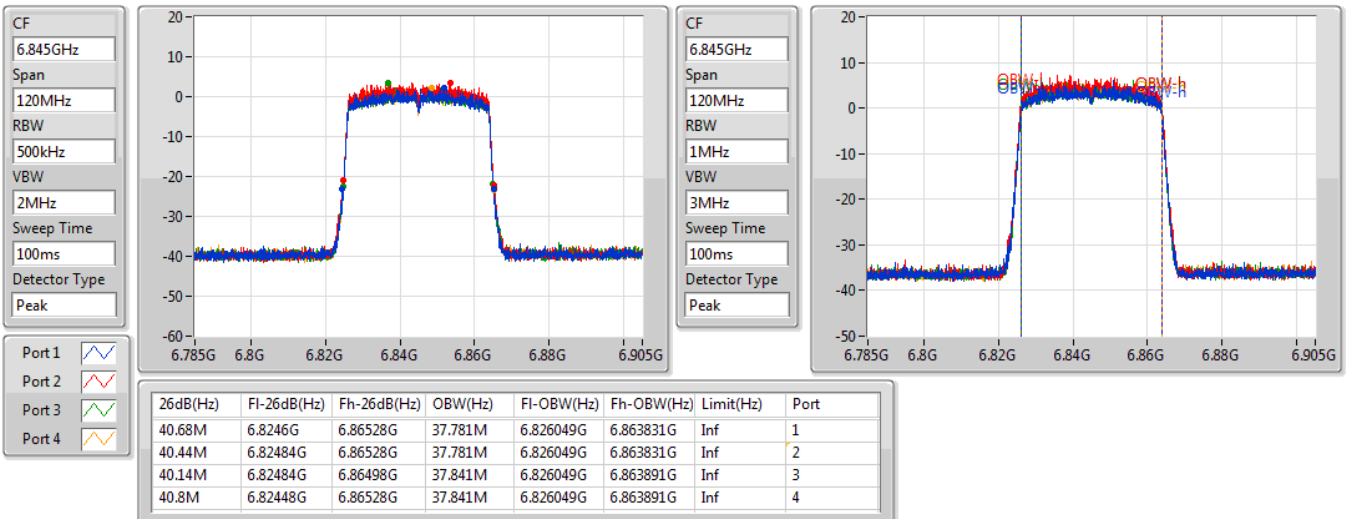
6725MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

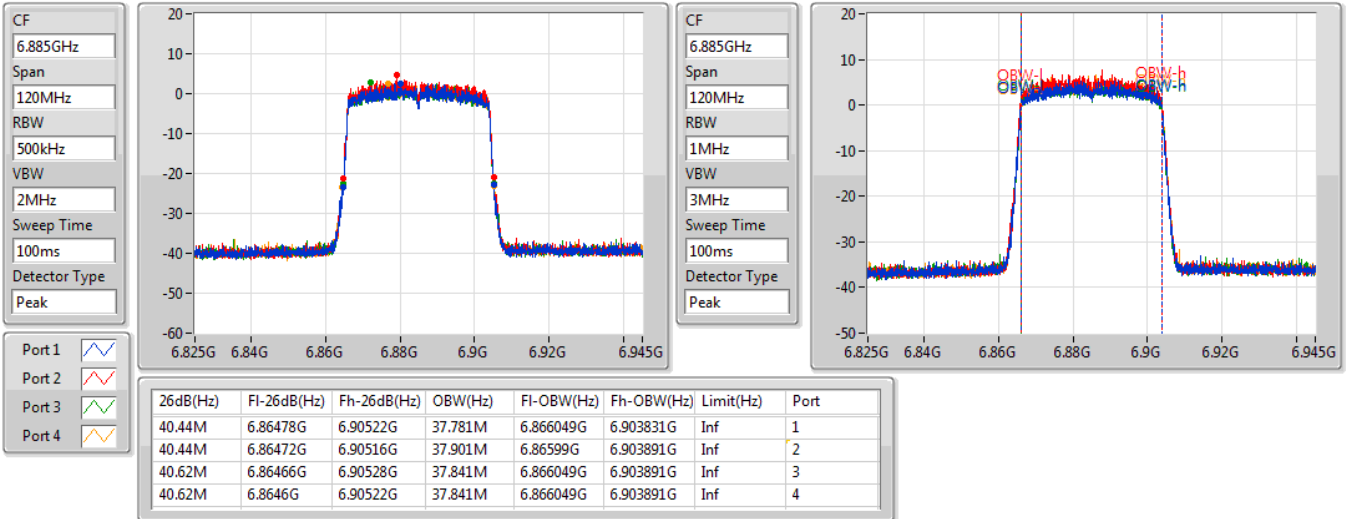
6845MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

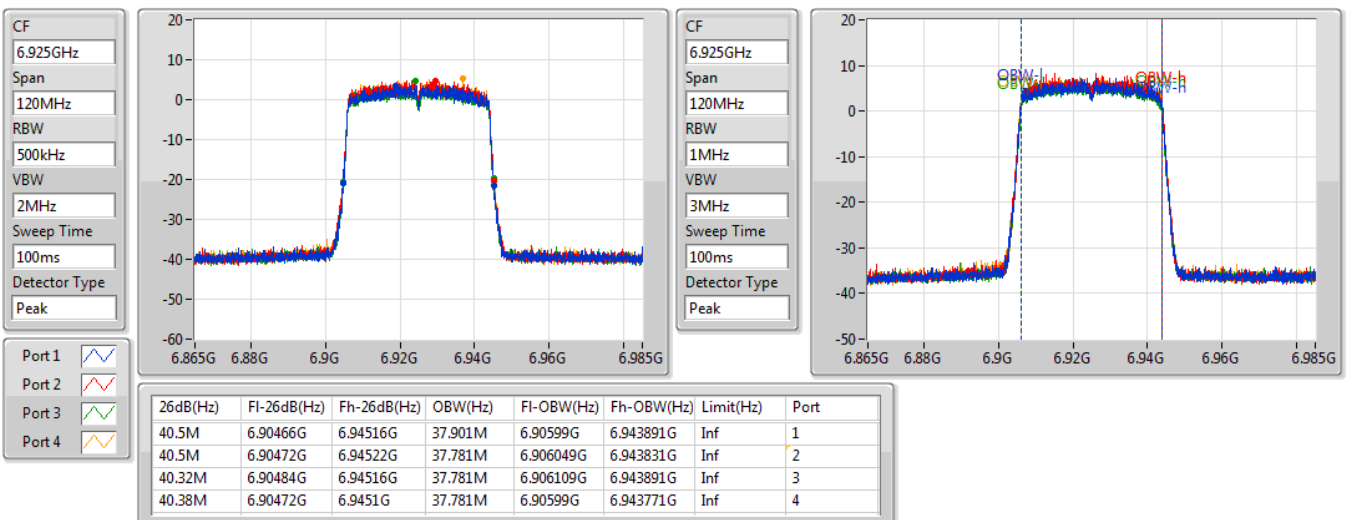
6885MHz Straddle 6.525-6.875GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

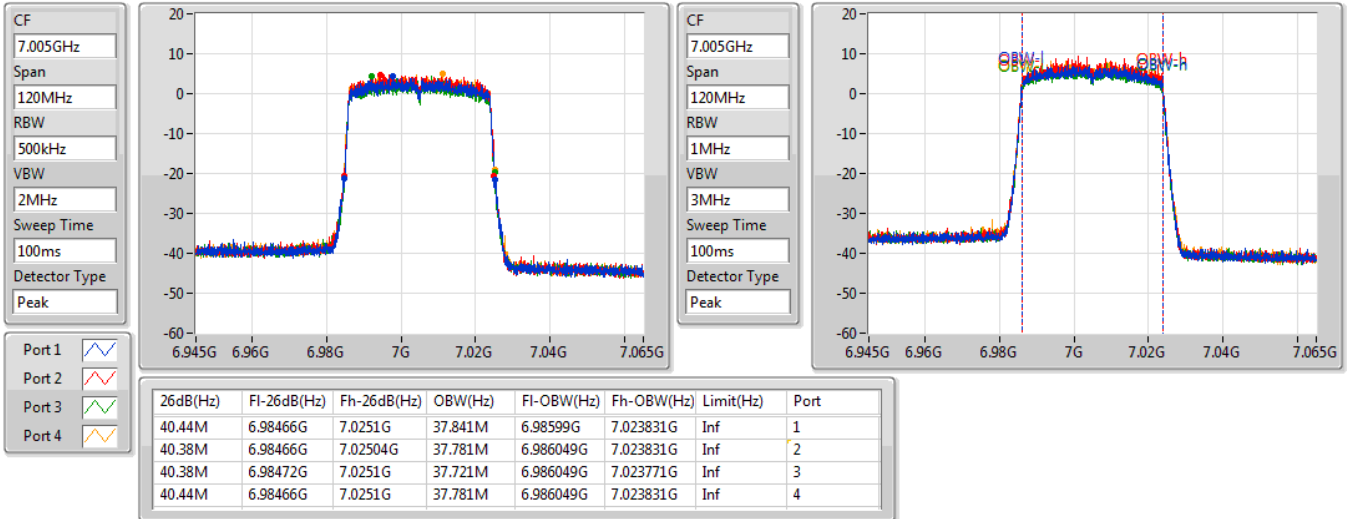
6925MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

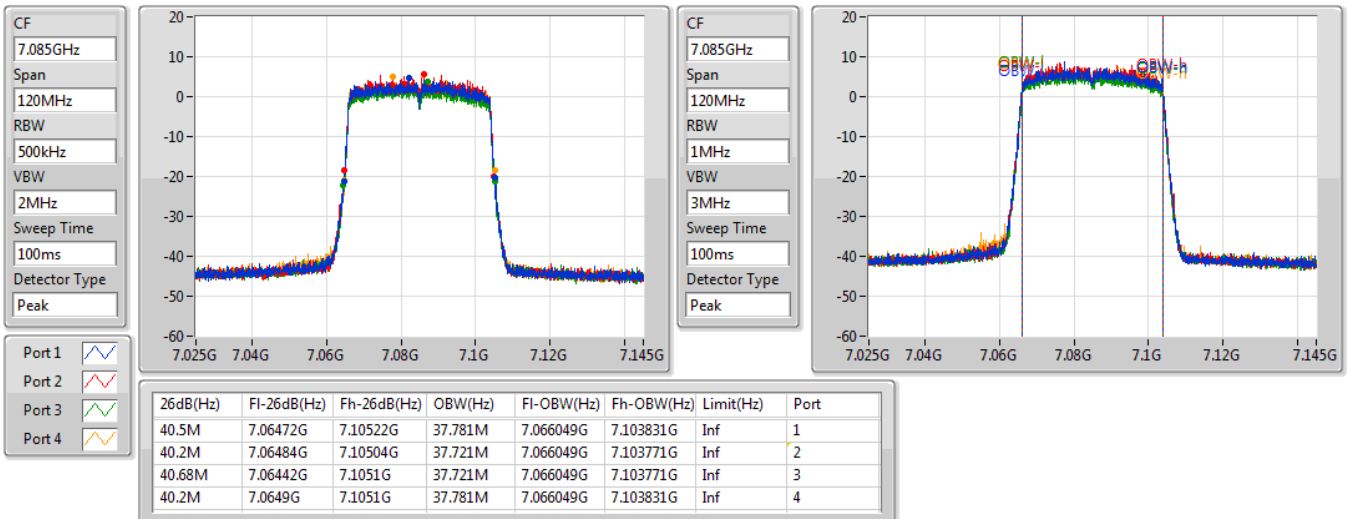
7005MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

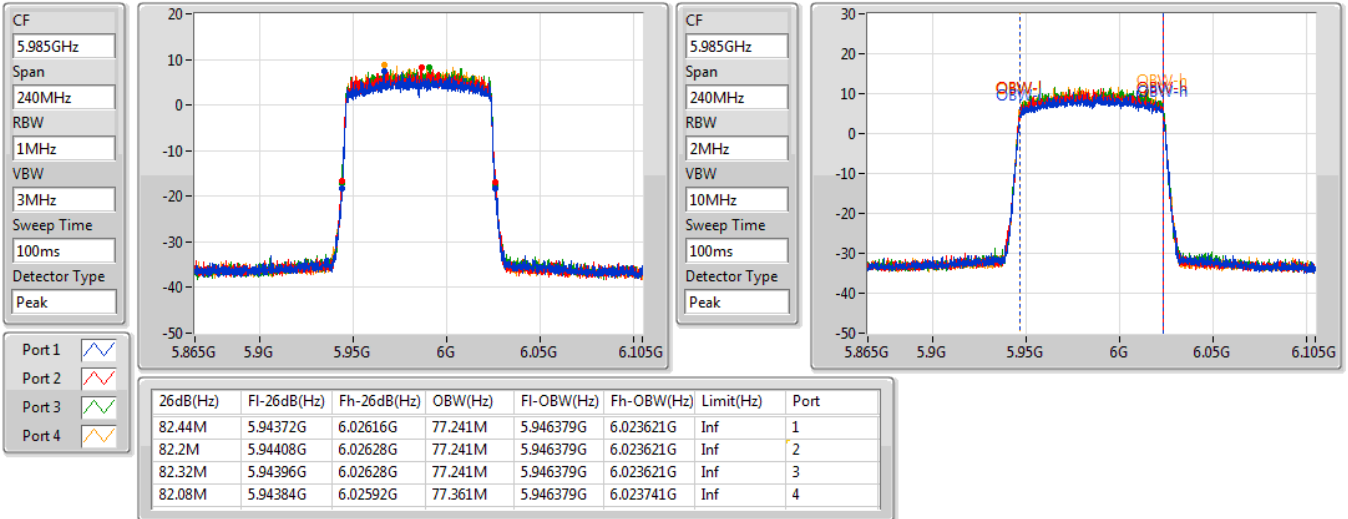
7085MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

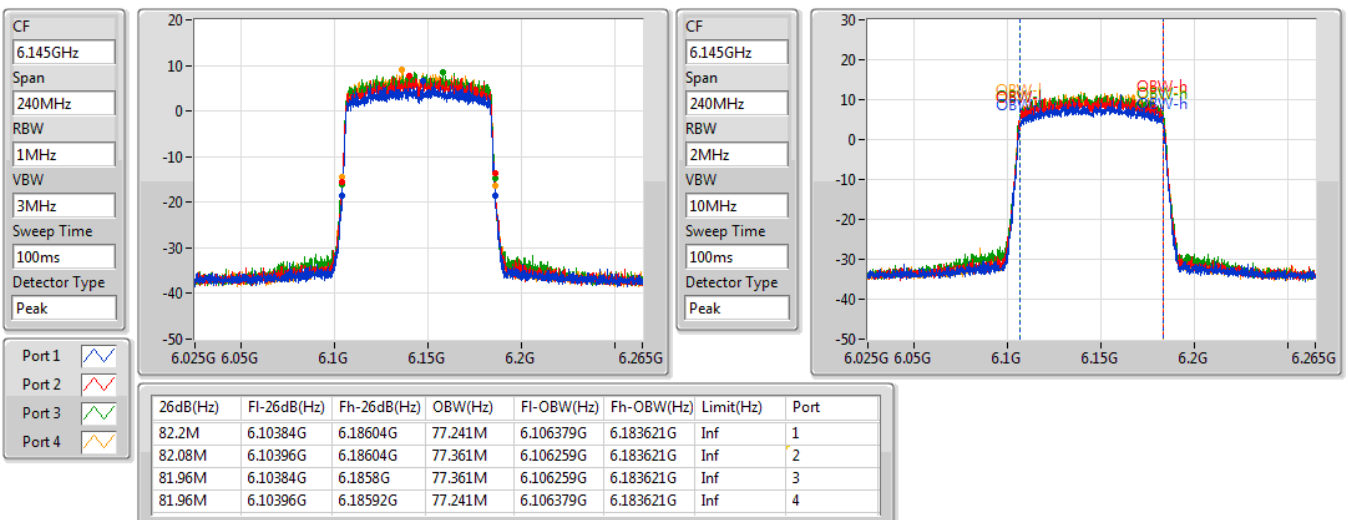
5985MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

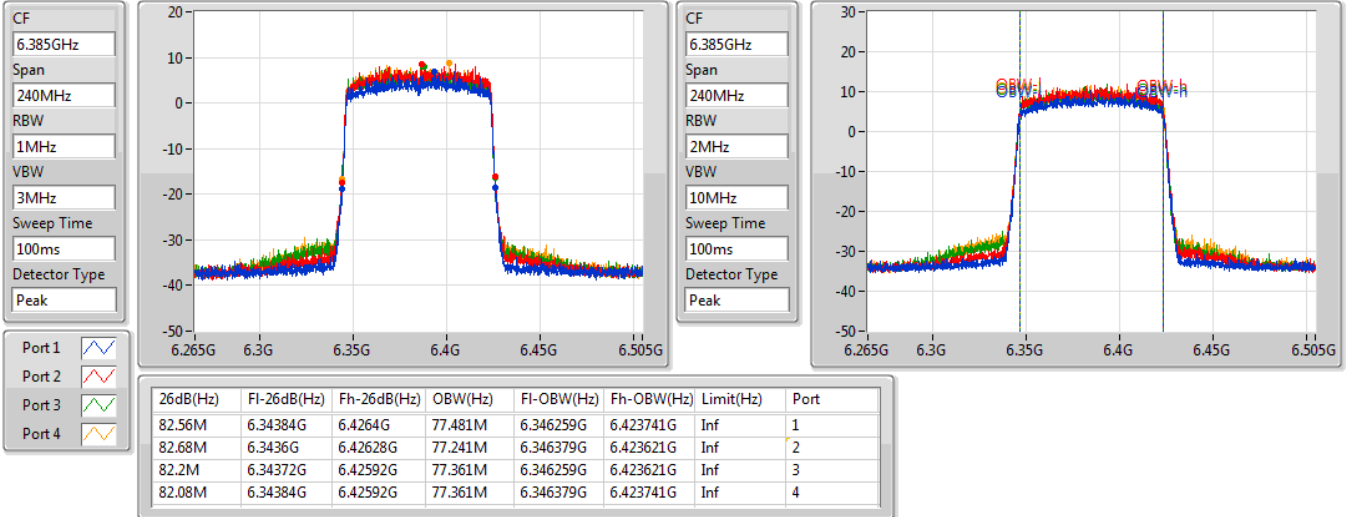
6145MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

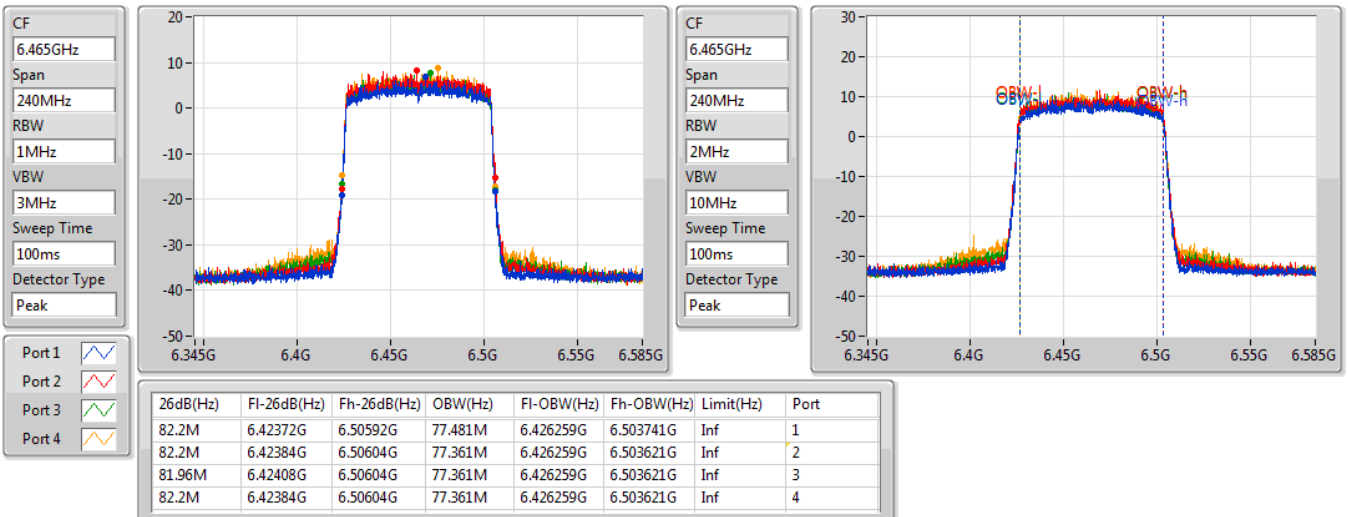
6385MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

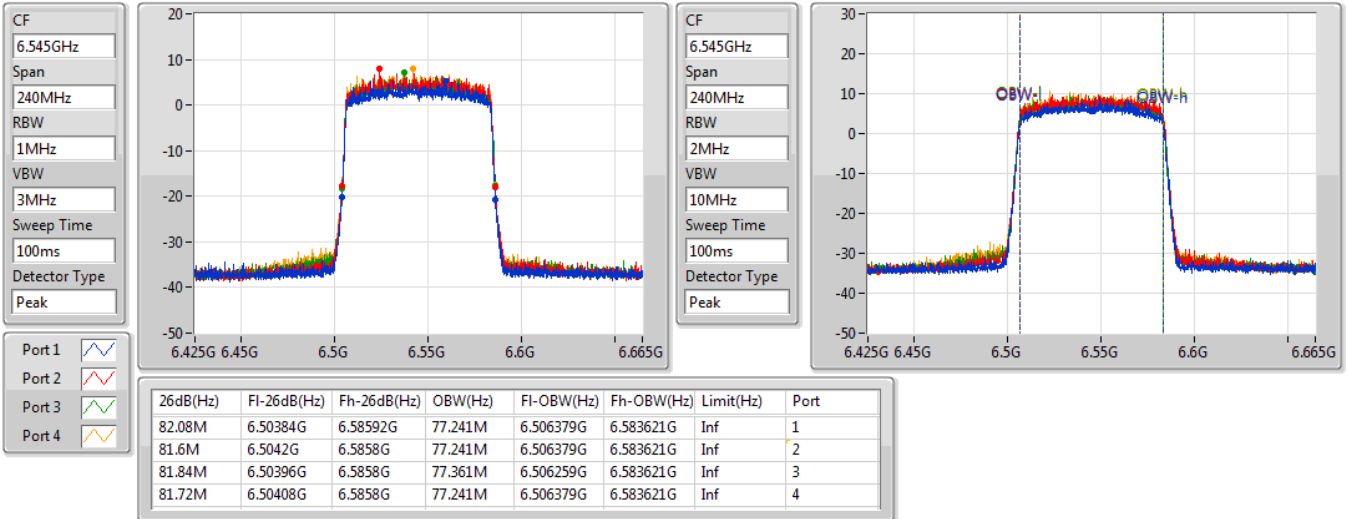
6465MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

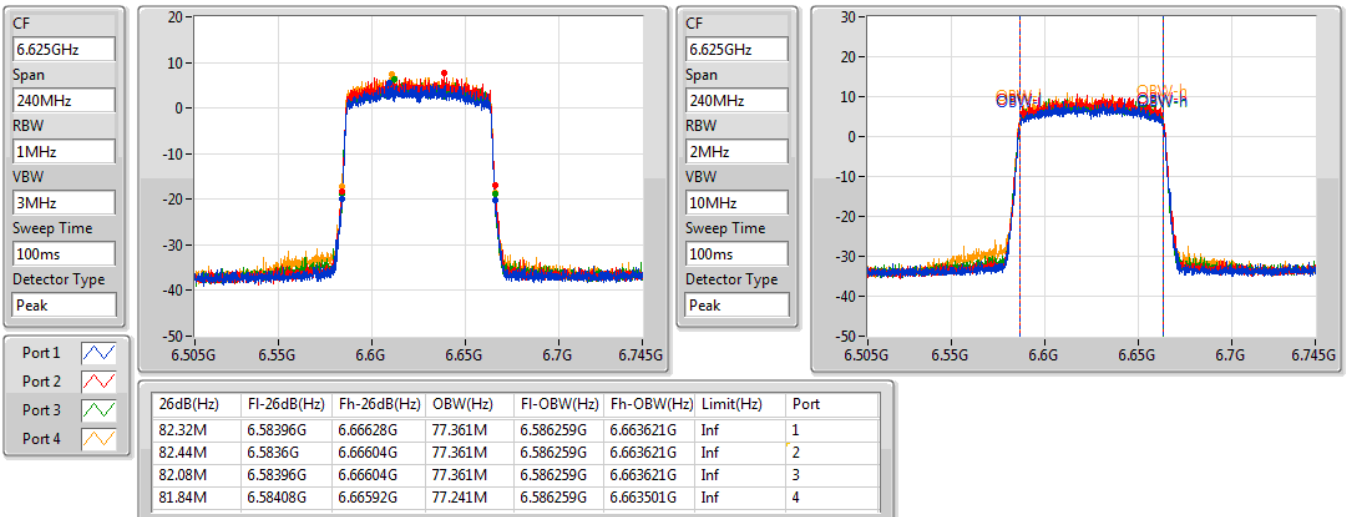
6545MHz Straddle 6.525-6.875GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

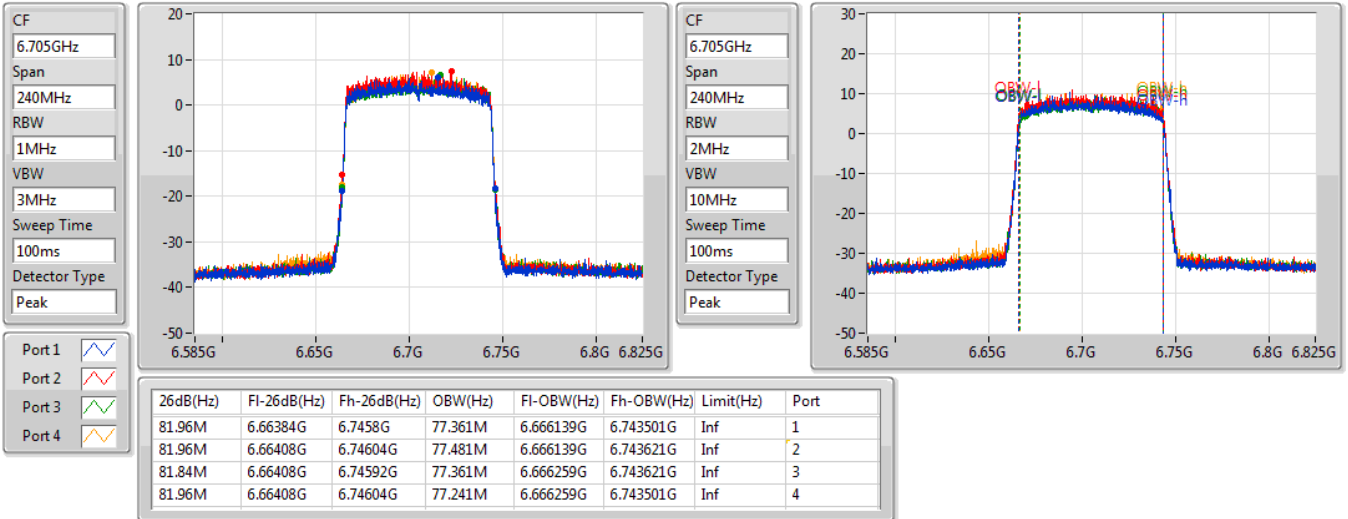
6625MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

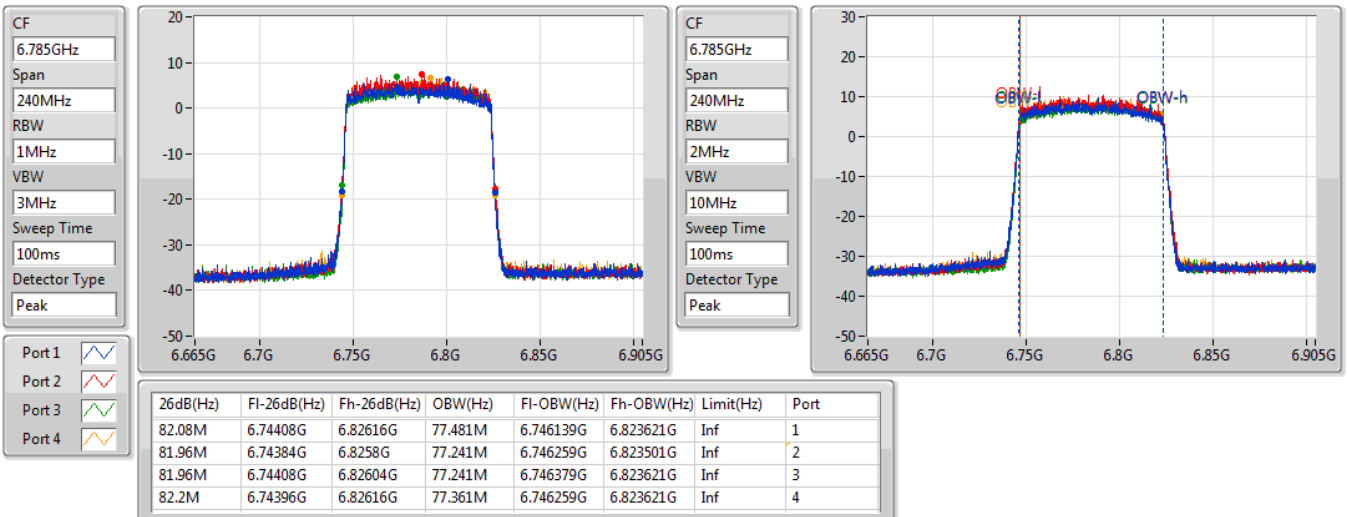
6705MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

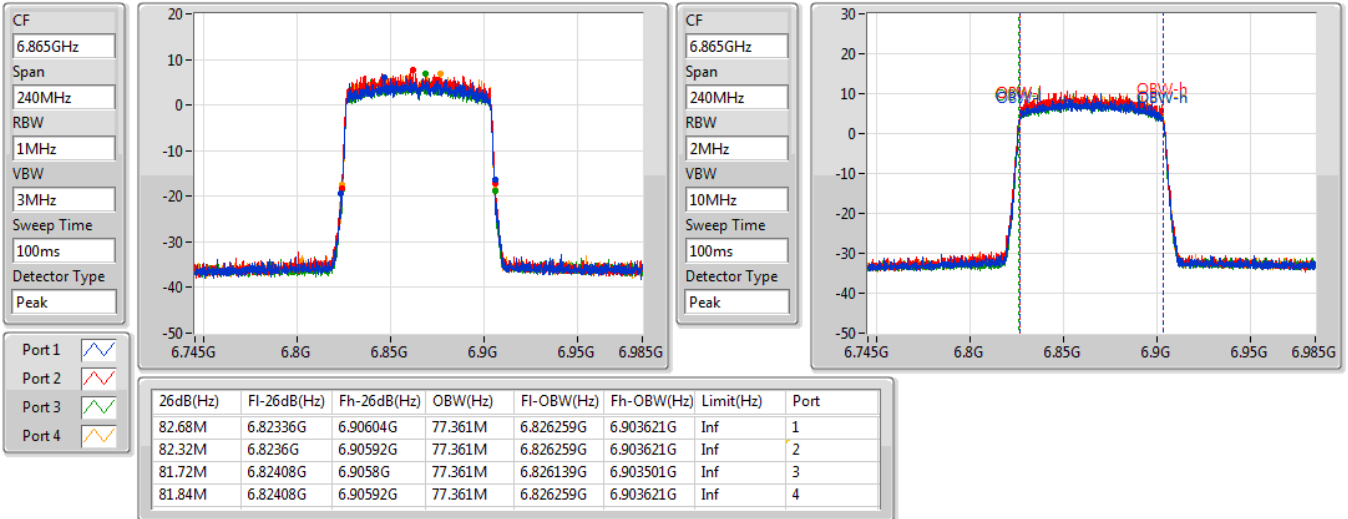
6785MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

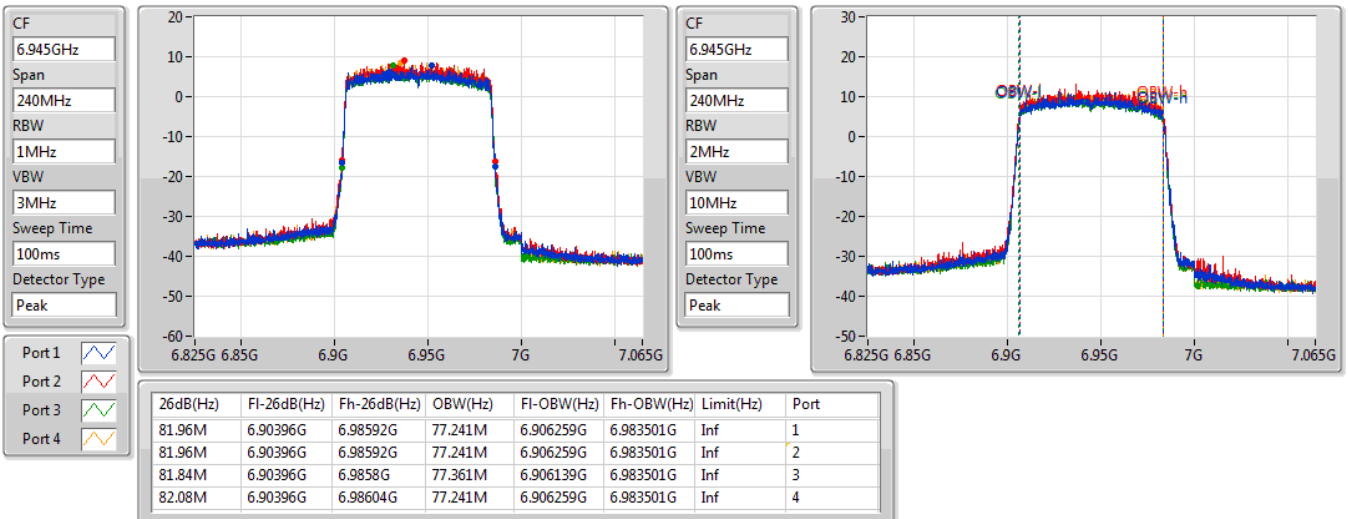
6865MHz Straddle 6.525-6.875GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

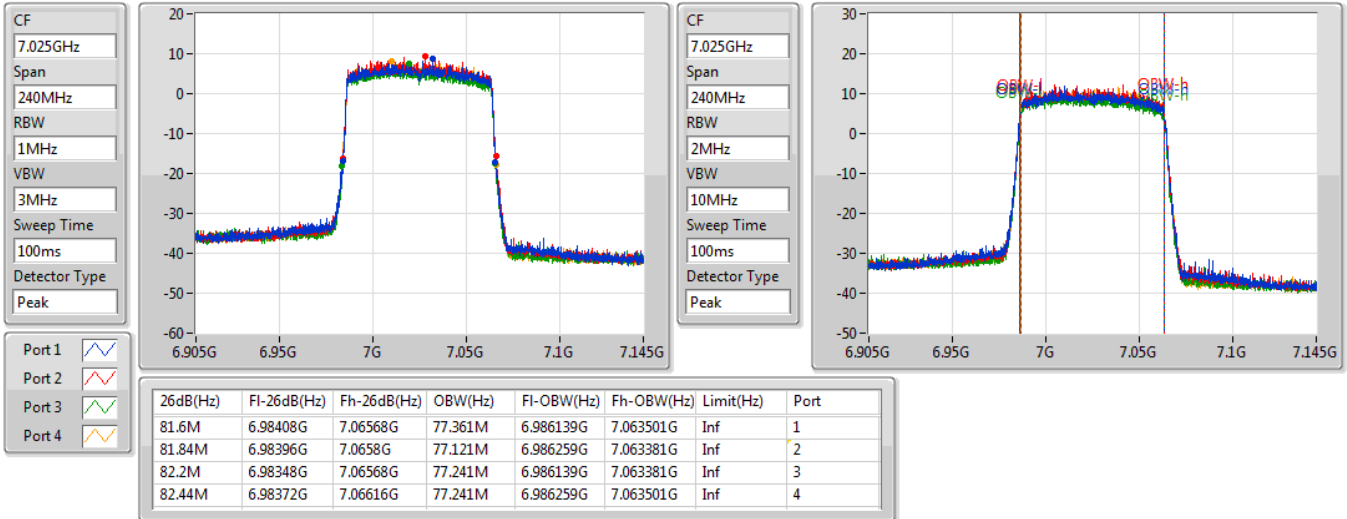
6945MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

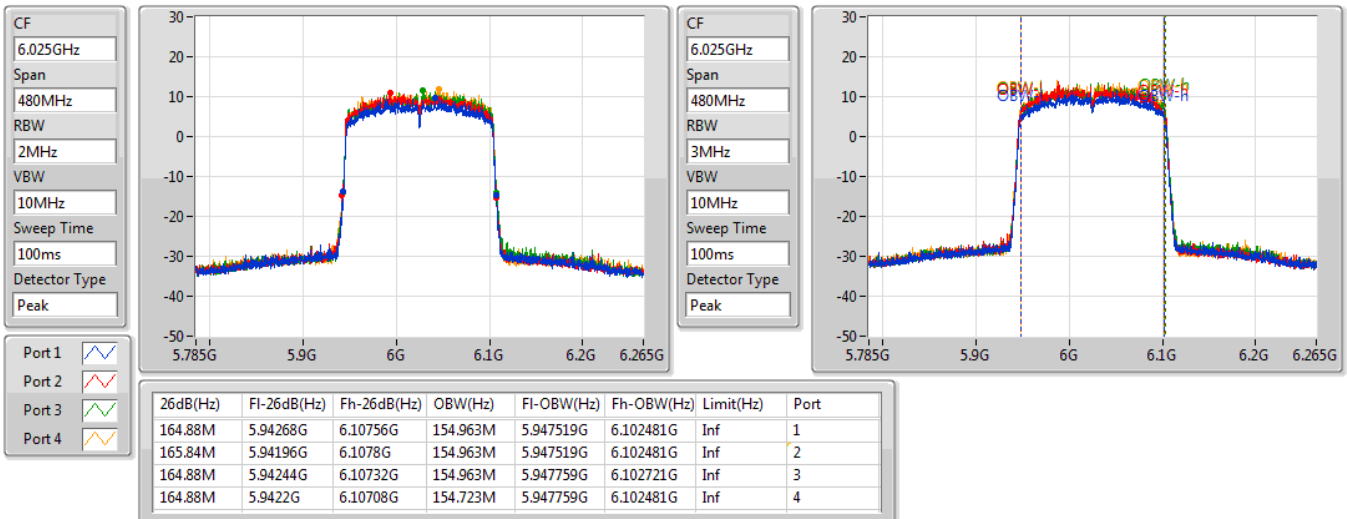
7025MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

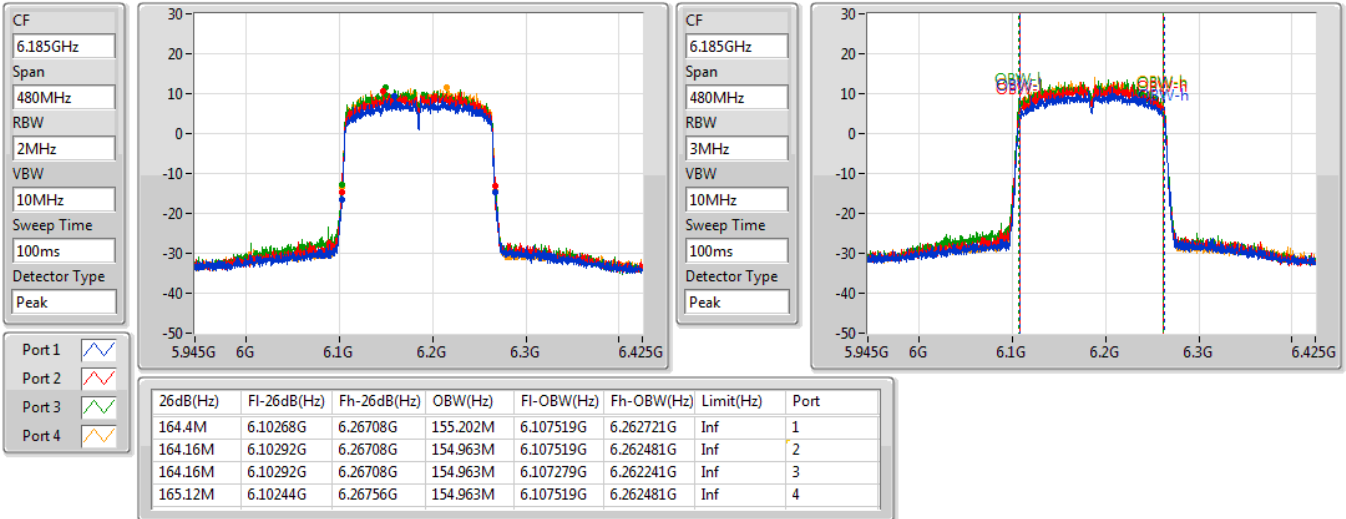
6025MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

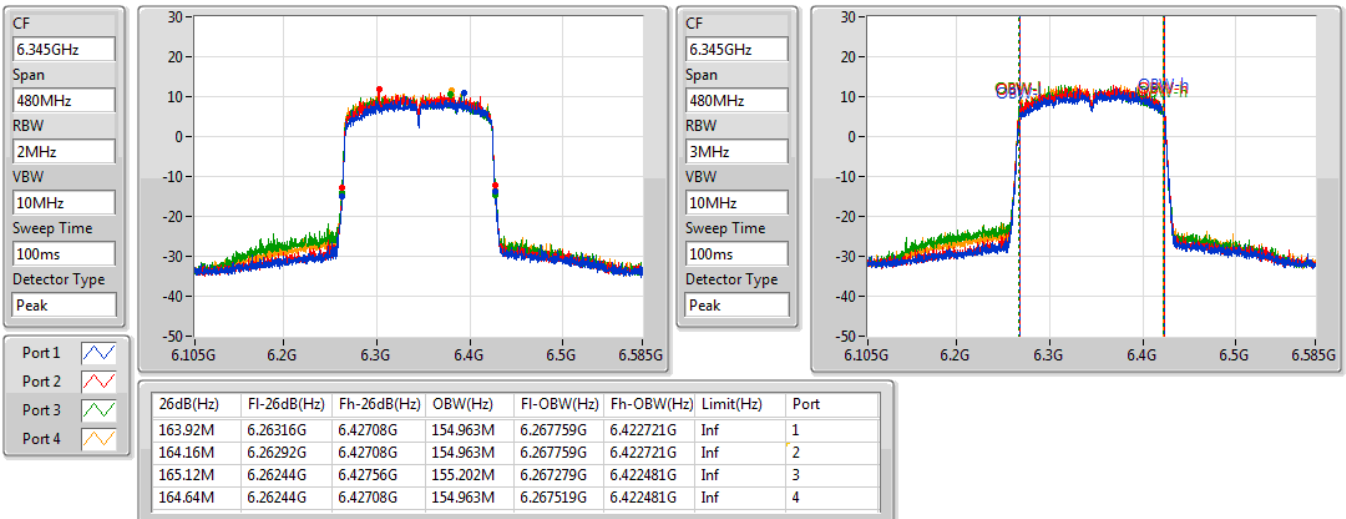
6185MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

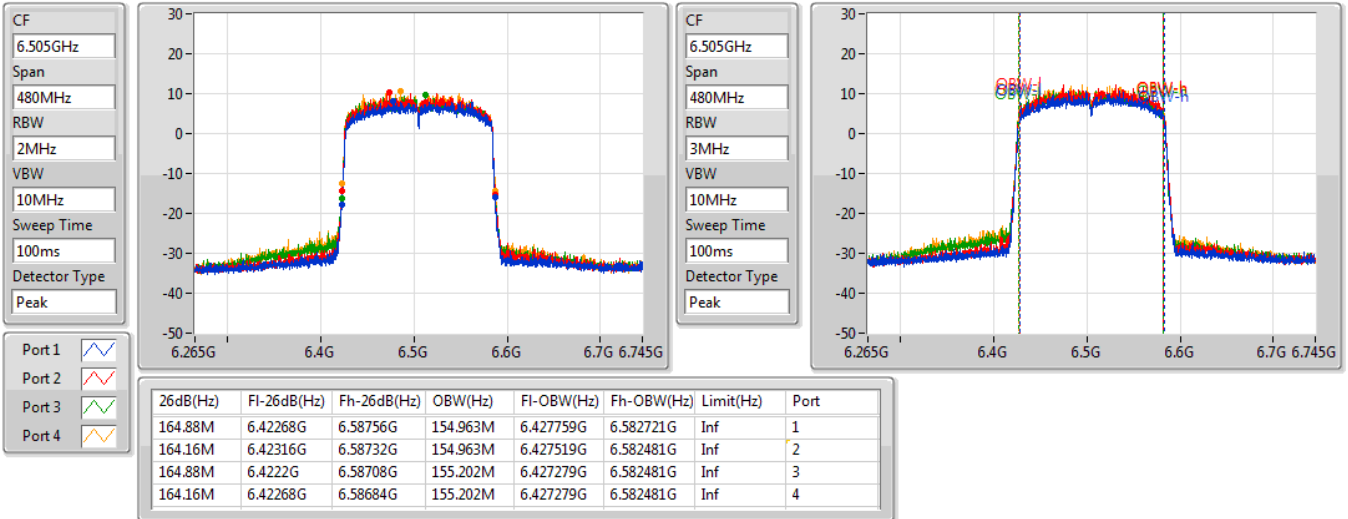
6345MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

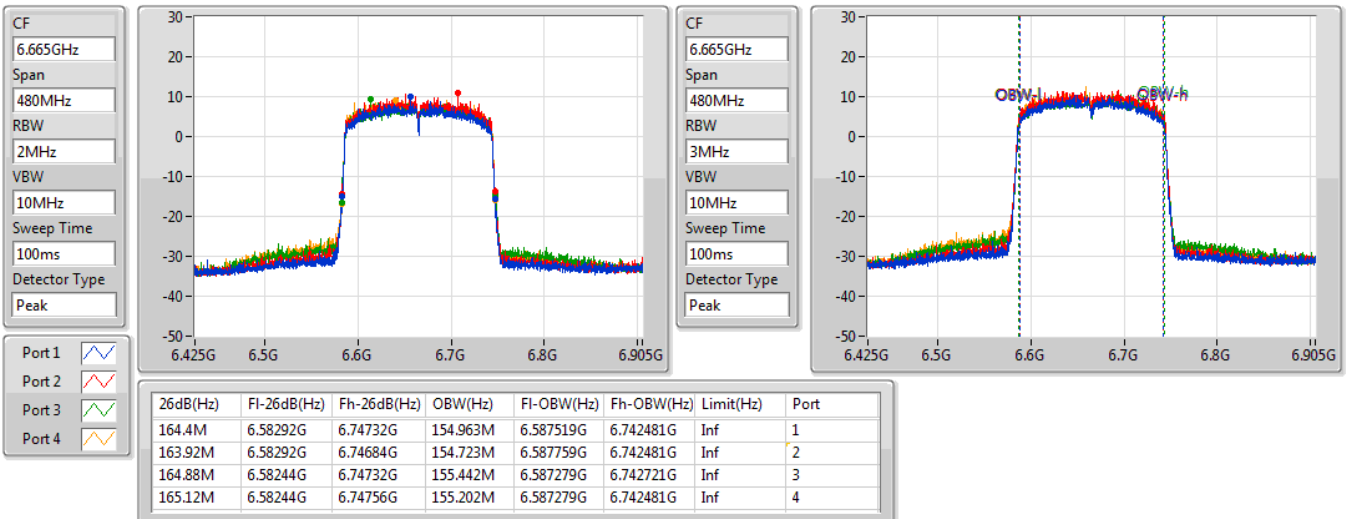
6505MHz Straddle 6.525-6.875GHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

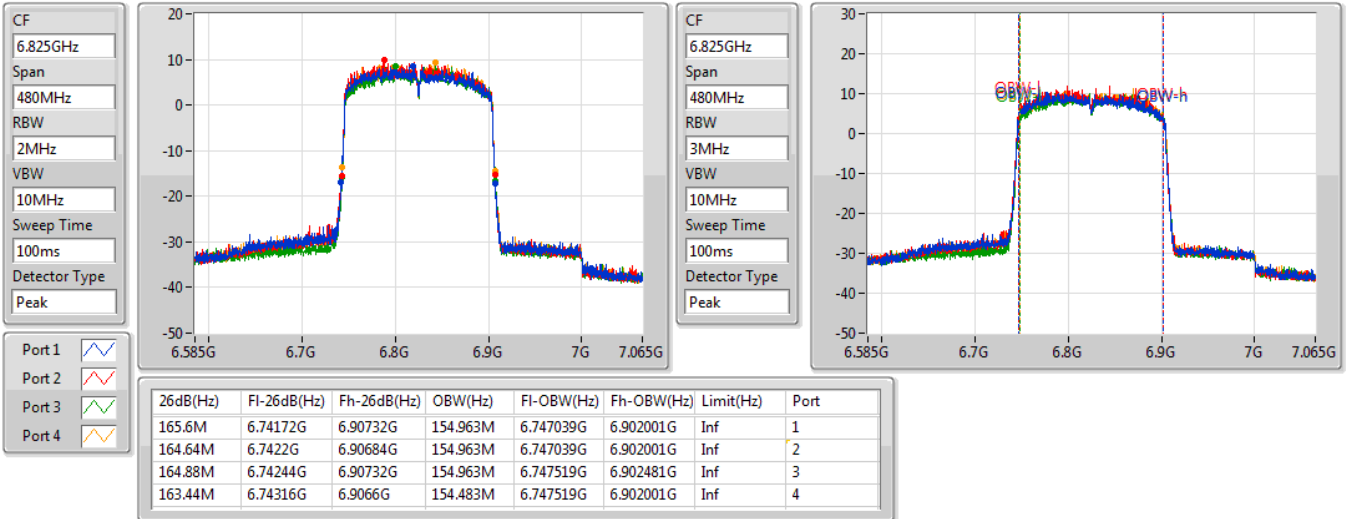
6665MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

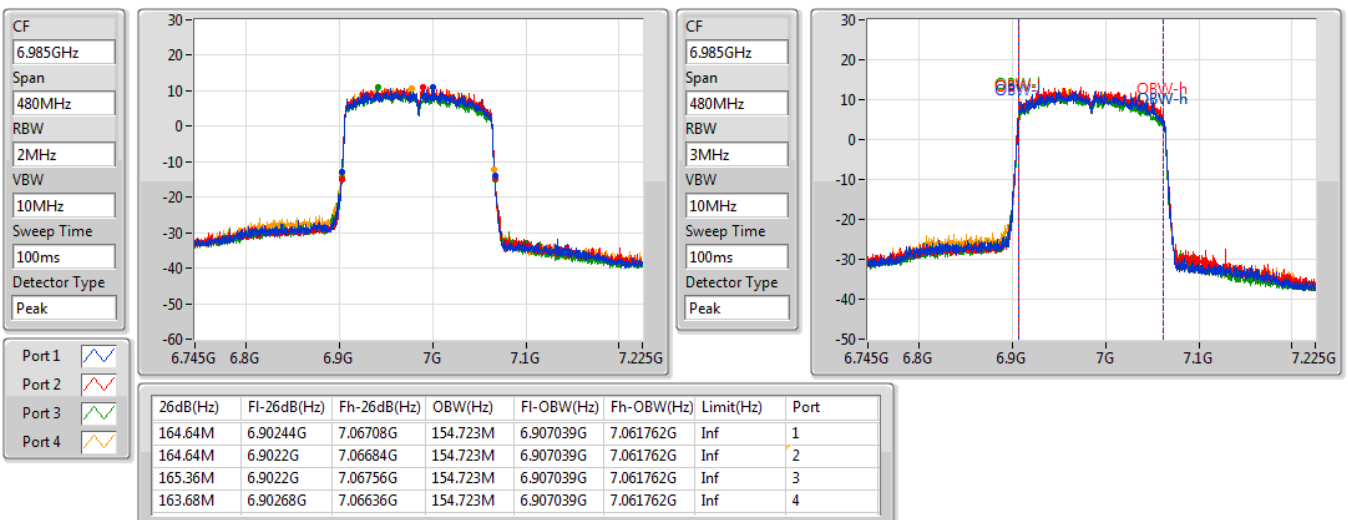
6825MHz Straddle 6.525-6.875GHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6985MHz



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	13.70	0.02344	17.56	0.05702
802.11ax HEW40_Nss4,(MCS0)_4TX	16.85	0.04842	20.71	0.11776
802.11ax HEW80_Nss4,(MCS0)_4TX	20.19	0.10447	24.05	0.25410
802.11ax HEW160_Nss4,(MCS0)_4TX	22.65	0.18408	26.51	0.44771
6.425-6.525GHz	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	13.07	0.02028	17.34	0.05420
802.11ax HEW40_Nss4,(MCS0)_4TX	16.63	0.04603	20.90	0.12303
802.11ax HEW80_Nss4,(MCS0)_4TX	19.70	0.09333	23.97	0.24946
6.525-6.875GHz	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	12.28	0.01690	17.61	0.05768
802.11ax HEW40_Nss4,(MCS0)_4TX	15.61	0.03639	20.94	0.12417
802.11ax HEW80_Nss4,(MCS0)_4TX	18.81	0.07603	24.14	0.25942
802.11ax HEW160_Nss4,(MCS0)_4TX	21.27	0.13397	26.60	0.45709
6.875-7.125GHz	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	14.32	0.02704	17.70	0.05888
802.11ax HEW40_Nss4,(MCS0)_4TX	17.73	0.05929	21.11	0.12912
802.11ax HEW80_Nss4,(MCS0)_4TX	20.68	0.11695	24.06	0.25468
802.11ax HEW160_Nss4,(MCS0)_4TX	22.77	0.18923	26.15	0.41210

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	3.86	2.01	2.16	2.06	2.01	8.08	Inf	11.94	30.00
5955MHz	Pass	3.86	7.63	7.65	7.46	7.66	13.62	Inf	17.48	30.00
6175MHz	Pass	3.86	7.43	7.26	8.17	7.79	13.70	Inf	17.56	30.00
6415MHz	Pass	3.86	7.12	7.37	7.29	7.19	13.26	Inf	17.12	30.00
6435MHz	Pass	4.27	6.83	7.23	7.03	6.81	13.00	Inf	17.27	30.00
6475MHz	Pass	4.27	6.81	7.22	6.89	6.82	12.96	Inf	17.23	30.00
6515MHz	Pass	4.27	6.72	7.41	6.94	7.11	13.07	Inf	17.34	30.00
6535MHz	Pass	5.33	5.88	6.47	6.08	6.02	12.14	Inf	17.47	30.00
6715MHz	Pass	5.33	6.2	6.82	5.54	5.15	12.00	Inf	17.33	30.00
6855MHz	Pass	5.33	6.12	6.67	6.12	6.08	12.28	Inf	17.61	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	5.33	5.86	6.28	6.05	5.83	12.03	Inf	17.36	30.00
6895MHz	Pass	3.38	8.33	8.53	8.18	8.15	14.32	Inf	17.70	30.00
7015MHz	Pass	3.38	8.28	8.09	7.99	7.71	14.04	Inf	17.42	30.00
7095MHz	Pass	3.38	8.08	8.12	8.07	7.68	14.01	Inf	17.39	30.00
7115MHz	Pass	3.38	5.32	5.26	5.19	4.95	11.20	Inf	14.58	30.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	3.86	10.01	10.82	11.21	11.17	16.85	Inf	20.71	30.00
6165MHz	Pass	3.86	9.12	10.45	11.43	11.38	16.71	Inf	20.57	30.00
6405MHz	Pass	3.86	9.56	11.05	10.61	11.17	16.66	Inf	20.52	30.00
6445MHz	Pass	4.27	9.57	10.75	10.47	10.95	16.49	Inf	20.76	30.00
6485MHz	Pass	4.27	9.66	10.86	10.67	11.11	16.63	Inf	20.90	30.00
6525MHz Straddle 6.525-6.875GHz	Pass	5.33	8.12	9.72	9.43	9.81	15.34	Inf	20.67	30.00
6565MHz	Pass	5.33	8.35	10.02	9.4	9.95	15.50	Inf	20.83	30.00
6725MHz	Pass	5.33	8.72	10.34	9.21	9.91	15.61	Inf	20.94	30.00
6845MHz	Pass	5.33	8.77	10.21	9.12	9.15	15.37	Inf	20.70	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	5.33	9.05	10.17	9.15	9.36	15.48	Inf	20.81	30.00
6925MHz	Pass	3.38	11.02	11.73	10.83	11.56	17.32	Inf	20.70	30.00
7005MHz	Pass	3.38	11.13	11.83	10.96	11.67	17.43	Inf	20.81	30.00
7085MHz	Pass	3.38	11.67	12.23	11.18	11.71	17.73	Inf	21.11	30.00
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	3.86	13.26	14.13	14.61	14.56	20.19	Inf	24.05	30.00
6145MHz	Pass	3.86	12.25	13.76	14.39	14.22	19.75	Inf	23.61	30.00
6385MHz	Pass	3.86	12.56	14.47	13.85	14.05	19.81	Inf	23.67	30.00
6465MHz	Pass	4.27	12.59	14.11	13.53	14.28	19.70	Inf	23.97	30.00
6545MHz Straddle	Pass	5.33	11.52	12.88	12.61	12.95	18.55	Inf	23.88	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)
6.525-6.875GHz										
6625MHz	Pass	5.33	11.87	13.11	12.36	12.97	18.63	Inf	23.96	30.00
6705MHz	Pass	5.33	12.18	13.53	12.23	13.06	18.81	Inf	24.14	30.00
6785MHz	Pass	5.33	12.11	13.06	12.03	12.53	18.47	Inf	23.80	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	5.33	12.88	13.08	12.12	12.68	18.73	Inf	24.06	30.00
6945MHz	Pass	3.38	14.13	15.05	14.06	14.63	20.51	Inf	23.89	30.00
7025MHz	Pass	3.38	14.65	15.08	14.03	14.81	20.68	Inf	24.06	30.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	3.86	15.31	16.82	17.01	17.13	22.65	Inf	26.51	30.00
6185MHz	Pass	3.86	14.82	16.32	17.06	17.06	22.43	Inf	26.29	30.00
6345MHz	Pass	3.86	15.57	16.78	16.53	16.81	22.47	Inf	26.33	30.00
6505MHz Straddle 6.525-6.875GHz	Pass	5.33	14.33	15.42	15.46	15.66	21.27	Inf	26.60	30.00
6665MHz	Pass	5.33	14.19	15.35	14.62	15.11	20.86	Inf	26.19	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	5.33	14.75	15.23	14.43	14.96	20.87	Inf	26.20	30.00
6985MHz	Pass	3.38	16.36	17.16	16.35	17.05	22.77	Inf	26.15	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
4	3.47	3.78	4.25	3.15
6	4.12	4.54	5.23	3.27
7	3.63	3.8	4.37	3.21
8	4.02	4.87	6.83	3.5
Directional Gain (dBi)	3.82	4.27	5.3	3.28

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5925 ~ 6425MHz	6425 ~ 6525MHz	6525 ~ 6875MHz	6875 ~ 7125MHz
5	4.03	4.15	4.9	3.18
7	3.63	3.8	4.37	3.21
8	4.02	4.87	6.83	3.5
9	3.73	4.1	4.79	3.61
Directional Gain (dBi)	3.86	4.25	5.33	3.38

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	7.68	0.00586	11.54	0.01426
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	10.83	0.01211	14.69	0.02944
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	14.17	0.02612	18.03	0.06353
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	16.63	0.04603	20.49	0.11194
6.425-6.525GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	7.05	0.00507	11.32	0.01355
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	10.61	0.01151	14.88	0.03076
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	13.68	0.02333	17.95	0.06237
6.525-6.875GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	6.26	0.00423	11.59	0.01442
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	9.59	0.00910	14.92	0.03105
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	12.79	0.01901	18.12	0.06486
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	15.25	0.03350	20.58	0.11429
6.875-7.125GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	8.30	0.00676	11.68	0.01472
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	11.71	0.01483	15.09	0.03228
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	14.66	0.02924	18.04	0.06368
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	16.75	0.04732	20.13	0.10304

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	3.86	-4.01	-3.86	-3.96	-4.01	2.06	Inf	5.92	30.00
5955MHz	Pass	3.86	1.61	1.63	1.44	1.64	7.60	Inf	11.46	30.00
6175MHz	Pass	3.86	1.41	1.24	2.15	1.77	7.68	Inf	11.54	30.00
6415MHz	Pass	3.86	1.1	1.35	1.27	1.17	7.24	Inf	11.10	30.00
6435MHz	Pass	4.27	0.81	1.21	1.01	0.79	6.98	Inf	11.25	30.00
6475MHz	Pass	4.27	0.79	1.2	0.87	0.8	6.94	Inf	11.21	30.00
6515MHz	Pass	4.27	0.7	1.39	0.92	1.09	7.05	Inf	11.32	30.00
6535MHz	Pass	5.33	-0.14	0.45	0.06	0	6.12	Inf	11.45	30.00
6715MHz	Pass	5.33	0.18	0.8	-0.48	-0.87	5.98	Inf	11.31	30.00
6855MHz	Pass	5.33	0.1	0.65	0.1	0.06	6.26	Inf	11.59	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	5.33	-0.16	0.26	0.03	-0.19	6.01	Inf	11.34	30.00
6895MHz	Pass	3.38	2.31	2.51	2.16	2.13	8.30	Inf	11.68	30.00
7015MHz	Pass	3.38	2.26	2.07	1.97	1.69	8.02	Inf	11.40	30.00
7095MHz	Pass	3.38	2.06	2.1	2.05	1.66	7.99	Inf	11.37	30.00
7115MHz	Pass	3.38	-0.7	-0.76	-0.83	-1.07	5.18	Inf	8.56	30.00
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	3.86	3.99	4.8	5.19	5.15	10.83	Inf	14.69	30.00
6165MHz	Pass	3.86	3.1	4.43	5.41	5.36	10.69	Inf	14.55	30.00
6405MHz	Pass	3.86	3.54	5.03	4.59	5.15	10.64	Inf	14.50	30.00
6445MHz	Pass	4.27	3.55	4.73	4.45	4.93	10.47	Inf	14.74	30.00
6485MHz	Pass	4.27	3.64	4.84	4.65	5.09	10.61	Inf	14.88	30.00
6525MHz Straddle 6.525-6.875GHz	Pass	5.33	2.1	3.7	3.41	3.79	9.32	Inf	14.65	30.00
6565MHz	Pass	5.33	2.33	4	3.38	3.93	9.48	Inf	14.81	30.00
6725MHz	Pass	5.33	2.7	4.32	3.19	3.89	9.59	Inf	14.92	30.00
6845MHz	Pass	5.33	2.75	4.19	3.1	3.13	9.35	Inf	14.68	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	5.33	3.03	4.15	3.13	3.34	9.46	Inf	14.79	30.00
6925MHz	Pass	3.38	5	5.71	4.81	5.54	11.30	Inf	14.68	30.00
7005MHz	Pass	3.38	5.11	5.81	4.94	5.65	11.41	Inf	14.79	30.00
7085MHz	Pass	3.38	5.65	6.21	5.16	5.69	11.71	Inf	15.09	30.00
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	3.86	7.24	8.11	8.59	8.54	14.17	Inf	18.03	30.00
6145MHz	Pass	3.86	6.23	7.74	8.37	8.2	13.73	Inf	17.59	30.00
6385MHz	Pass	3.86	6.54	8.45	7.83	8.03	13.79	Inf	17.65	30.00
6465MHz	Pass	4.27	6.57	8.09	7.51	8.26	13.68	Inf	17.95	30.00
6545MHz Straddle	Pass	5.33	5.5	6.86	6.59	6.93	12.53	Inf	17.86	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)
6.525-6.875GHz										
6625MHz	Pass	5.33	5.85	7.09	6.34	6.95	12.61	Inf	17.94	30.00
6705MHz	Pass	5.33	6.16	7.51	6.21	7.04	12.79	Inf	18.12	30.00
6785MHz	Pass	5.33	6.09	7.04	6.01	6.51	12.45	Inf	17.78	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	5.33	6.86	7.06	6.1	6.66	12.71	Inf	18.04	30.00
6945MHz	Pass	3.38	8.11	9.03	8.04	8.61	14.49	Inf	17.87	30.00
7025MHz	Pass	3.38	8.63	9.06	8.01	8.79	14.66	Inf	18.04	30.00
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	3.86	9.29	10.8	10.99	11.11	16.63	Inf	20.49	30.00
6185MHz	Pass	3.86	8.8	10.3	11.04	11.04	16.41	Inf	20.27	30.00
6345MHz	Pass	3.86	9.55	10.76	10.51	10.79	16.45	Inf	20.31	30.00
6505MHz Straddle 6.525-6.875GHz	Pass	5.33	8.31	9.4	9.44	9.64	15.25	Inf	20.58	30.00
6665MHz	Pass	5.33	8.17	9.33	8.6	9.09	14.84	Inf	20.17	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	5.33	8.73	9.21	8.41	8.94	14.85	Inf	20.18	30.00
6985MHz	Pass	3.38	10.34	11.14	10.33	11.03	16.75	Inf	20.13	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
4	3.47	3.78	4.25	3.15
6	4.12	4.54	5.23	3.27
7	3.63	3.8	4.37	3.21
8	4.02	4.87	6.83	3.5
Directional Gain (dBi)	3.82	4.27	5.3	3.28

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5925 ~ 6425MHz	6425 ~ 6525MHz	6525 ~ 6875MHz	6875 ~ 7125MHz
5	4.03	4.15	4.9	3.18
7	3.63	3.8	4.37	3.21
8	4.02	4.87	6.83	3.5
9	3.73	4.1	4.79	3.61
Directional Gain (dBi)	3.86	4.25	5.33	3.38

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.925-6.425GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	0.94	4.80
802.11ax HEW40_Nss4,(MCS0)_4TX	1.00	4.86
802.11ax HEW80_Nss4,(MCS0)_4TX	1.02	4.88
802.11ax HEW160_Nss4,(MCS0)_4TX	0.90	4.76
6.425-6.525GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	0.34	4.61
802.11ax HEW40_Nss4,(MCS0)_4TX	0.64	4.91
802.11ax HEW80_Nss4,(MCS0)_4TX	0.44	4.71
6.525-6.875GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	-0.57	4.76
802.11ax HEW40_Nss4,(MCS0)_4TX	-0.43	4.90
802.11ax HEW80_Nss4,(MCS0)_4TX	-0.54	4.79
802.11ax HEW160_Nss4,(MCS0)_4TX	-0.51	4.82
6.875-7.125GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	1.30	4.68
802.11ax HEW40_Nss4,(MCS0)_4TX	1.50	4.88
802.11ax HEW80_Nss4,(MCS0)_4TX	1.34	4.72
802.11ax HEW160_Nss4,(MCS0)_4TX	1.23	4.61

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	Port 3 (dBm/ RBW)	Port 4 (dBm/ RBW)	PD (dBm/ RBW)	PD Limit (dBm/ RBW)	EIRP PD (dBm/ RBW)	EIRP PD Limit (dBm/ RBW)
802.11ax HEW20_Nss4,(MCS0)_4TX										
5935MHz	Pass	3.86	-10.61	-10.35	-10.79	-10.10	-4.75	Inf	-0.89	5.00
5955MHz	Pass	3.86	-4.87	-4.98	-4.92	-4.93	0.87	Inf	4.73	5.00
6175MHz	Pass	3.86	-5.32	-5.21	-4.26	-4.77	0.94	Inf	4.80	5.00
6415MHz	Pass	3.86	-5.15	-4.64	-4.80	-5.05	0.74	Inf	4.60	5.00
6435MHz	Pass	4.27	-5.65	-5.21	-5.32	-5.71	0.34	Inf	4.61	5.00
6475MHz	Pass	4.27	-5.76	-5.19	-5.55	-5.25	0.24	Inf	4.51	5.00
6515MHz	Pass	4.27	-6.01	-5.28	-5.51	5.17	0.23	Inf	4.50	5.00
6535MHz	Pass	5.33	-6.60	-6.03	-6.52	-6.50	-0.57	Inf	4.76	5.00
6715MHz	Pass	5.33	-6.48	-5.41	-7.04	-7.41	-0.60	Inf	4.73	5.00
6855MHz	Pass	5.33	-6.84	-6.06	-6.75	-6.41	-0.84	Inf	4.49	5.00
6875MHz Straddle 6.525-6.875GHz	Pass	5.33	-6.64	-6.15	-6.54	-6.61	-0.65	Inf	4.68	5.00
6895MHz	Pass	3.38	-4.32	-4.28	-4.84	-4.45	1.25	Inf	4.63	5.00
7015MHz	Pass	3.38	-4.65	-4.71	-5.36	-5.07	0.92	Inf	4.30	5.00
7095MHz	Pass	3.38	-4.57	-4.53	-4.57	-4.92	1.30	Inf	4.68	5.00
7115MHz	Pass	3.38	-7.30	-7.12	-7.59	-7.70	-1.55	Inf	1.83	5.00
802.11ax HEW40_Nss4,(MCS0)_4TX										
5965MHz	Pass	3.86	-5.98	-4.84	-4.50	-4.69	0.91	Inf	4.77	5.00
6165MHz	Pass	3.86	-6.40	-4.98	-4.05	-3.84	1.00	Inf	4.86	5.00
6405MHz	Pass	3.86	-5.72	-4.38	-4.91	-4.39	0.80	Inf	4.66	5.00
6445MHz	Pass	4.27	-5.97	-4.71	-4.76	-4.68	0.61	Inf	4.88	5.00
6485MHz	Pass	4.27	-6.09	-4.99	-5.07	-4.69	0.64	Inf	4.91	5.00
6525MHz Straddle 6.525-6.875GHz	Pass	5.33	-7.53	-5.94	-6.13	-5.62	-0.56	Inf	4.77	5.00
6565MHz	Pass	5.33	-7.29	-5.57	-6.27	-5.55	-0.44	Inf	4.89	5.00
6725MHz	Pass	5.33	-7.04	-5.54	-6.71	-6.04	-0.48	Inf	4.85	5.00
6845MHz	Pass	5.33	-6.84	-5.34	-6.54	-6.57	-0.61	Inf	4.72	5.00
6885MHz Straddle 6.525-6.875GHz	Pass	5.33	-6.55	-5.54	-6.42	-6.30	-0.43	Inf	4.90	5.00
6925MHz	Pass	3.38	-4.32	-3.82	-4.60	-4.11	1.38	Inf	4.76	5.00
7005MHz	Pass	3.38	-4.64	-3.84	-4.89	-4.15	1.49	Inf	4.87	5.00
7085MHz	Pass	3.38	-4.49	-3.94	-4.97	-4.28	1.50	Inf	4.88	5.00
802.11ax HEW80_Nss4,(MCS0)_4TX										
5985MHz	Pass	3.86	-5.76	-5.02	-4.43	-4.48	0.97	Inf	4.83	5.00
6145MHz	Pass	3.86	-6.74	-5.26	-4.42	-4.44	0.62	Inf	4.48	5.00
6385MHz	Pass	3.86	-5.92	-3.93	-4.67	-4.47	1.02	Inf	4.88	5.00
6465MHz	Pass	4.27	-6.37	-5.03	-5.56	-4.76	0.44	Inf	4.71	5.00
6545MHz Straddle 6.525-6.875GHz	Pass	5.33	-7.45	-6.05	-6.52	-6.08	-0.77	Inf	4.56	5.00
6625MHz	Pass	5.33	-7.15	-5.94	-6.81	-6.14	-0.67	Inf	4.66	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)
6705MHz	Pass	5.33	-6.94	-5.59	-6.85	-6.18	-0.54	Inf	4.79	5.00
6785MHz	Pass	5.33	-6.67	-5.58	-7.02	-6.49	-0.71	Inf	4.62	5.00
6865MHz Straddle 6.525-6.875GHz	Pass	5.33	-6.84	-5.82	-6.84	-6.14	-0.59	Inf	4.74	5.00
6945MHz	Pass	3.38	-4.96	-4.05	-5.08	-4.26	1.34	Inf	4.72	5.00
7025MHz	Pass	3.38	-4.77	-4.24	-5.24	-4.48	1.28	Inf	4.66	5.00
802.11ax HEW160_Nss4,(MCS0)_4TX										
6025MHz	Pass	3.86	-6.29	-4.84	-4.42	-4.19	0.80	Inf	4.66	5.00
6185MHz	Pass	3.86	-6.57	-5.13	-3.94	-3.98	0.90	Inf	4.76	5.00
6345MHz	Pass	3.86	-5.59	-4.53	-4.64	-4.44	0.85	Inf	4.71	5.00
6505MHz Straddle 6.525-6.875GHz	Pass	5.33	-7.23	-5.79	-5.96	-5.58	-0.51	Inf	4.82	5.00
6665MHz	Pass	5.33	-7.06	-5.56	-6.77	-6.21	-0.64	Inf	4.69	5.00
6825MHz Straddle 6.525-6.875GHz	Pass	5.33	-6.61	-5.77	-7.07	-6.40	-0.64	Inf	4.69	5.00
6985MHz	Pass	3.38	-5.01	-4.35	-5.01	-4.27	1.23	Inf	4.61	5.00

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

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

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

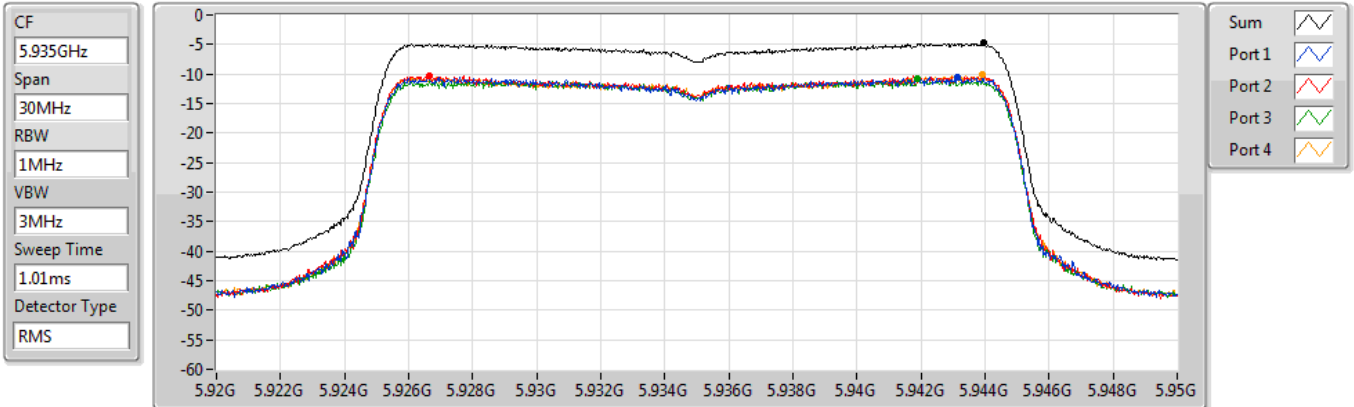
Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5925 ~ 6425MHz	6425 ~ 6525MHz	6525 ~ 6875MHz	6875 ~ 7125MHz
4	3.47	3.78	4.25	3.15
6	4.12	4.54	5.23	3.27
7	3.63	3.8	4.37	3.21
8	4.02	4.87	6.83	3.5
Directional Gain (dBi)	3.82	4.27	5.3	3.28

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5925 ~ 6425MHz	6425 ~ 6525MHz	6525 ~ 6875MHz	6875 ~ 7125MHz
5	4.03	4.15	4.9	3.18
7	3.63	3.8	4.37	3.21
8	4.02	4.87	6.83	3.5
9	3.73	4.1	4.79	3.61
Directional Gain (dBi)	3.86	4.25	5.33	3.38

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5935MHz

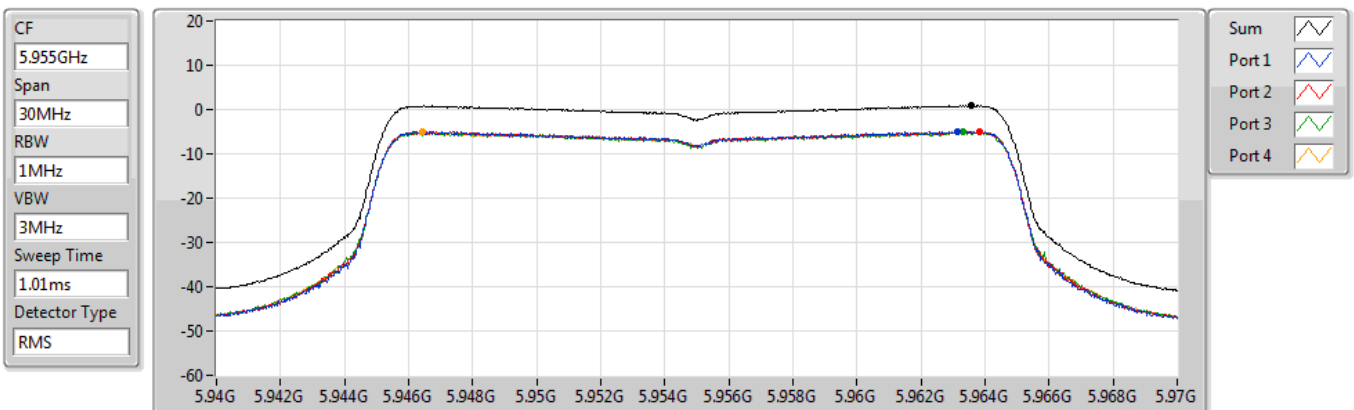


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.75	-4.75	-10.61	-10.35	-10.79	-10.10

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5955MHz

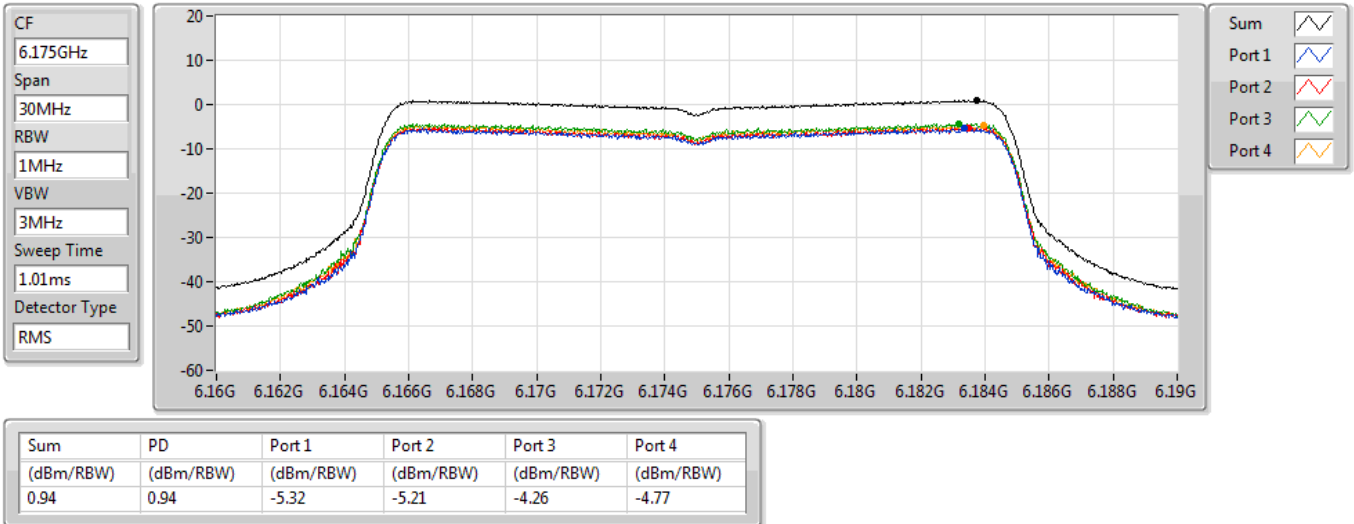


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.87	0.87	-4.87	-4.98	-4.92	-4.93

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

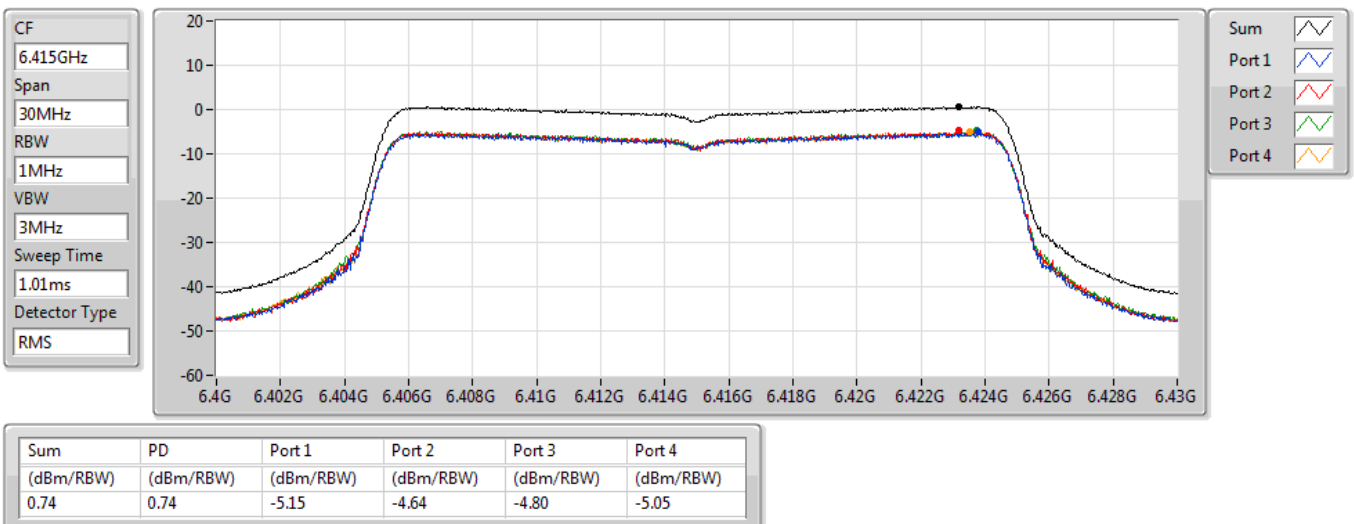
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802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

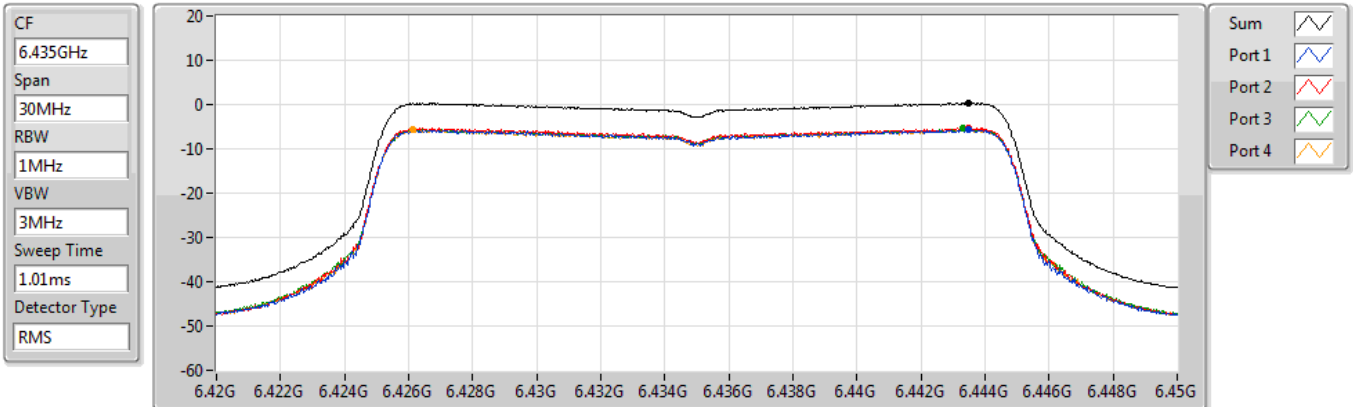
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802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

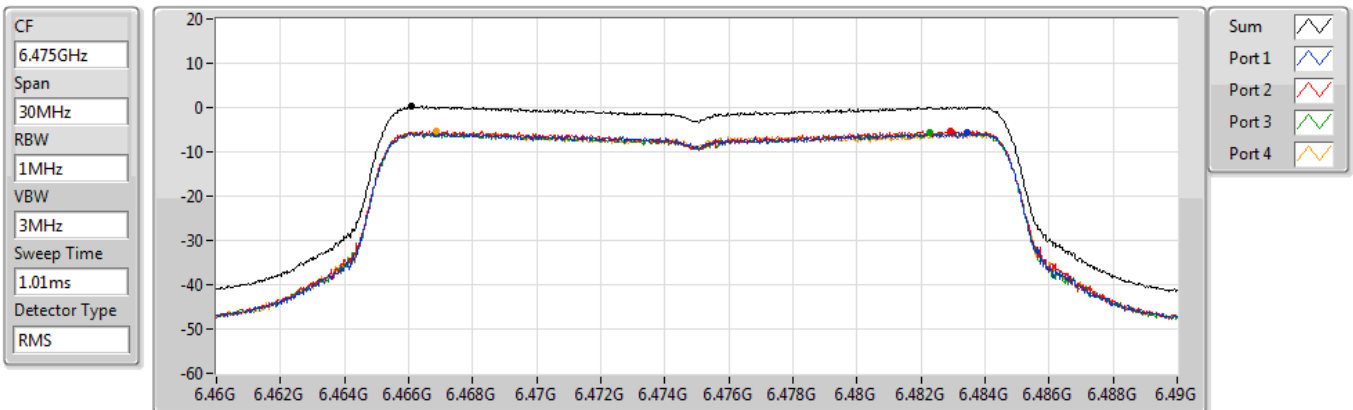
6435MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

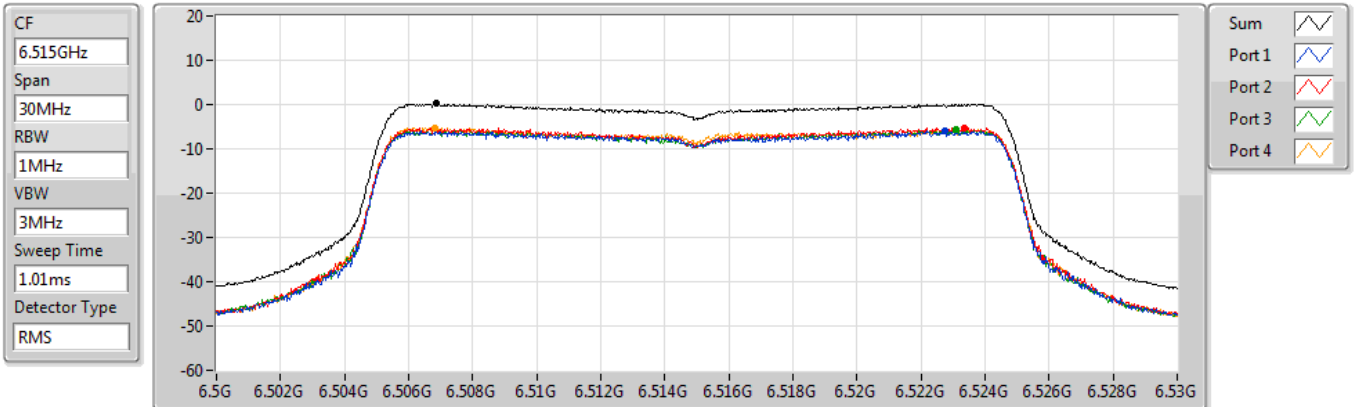
6475MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

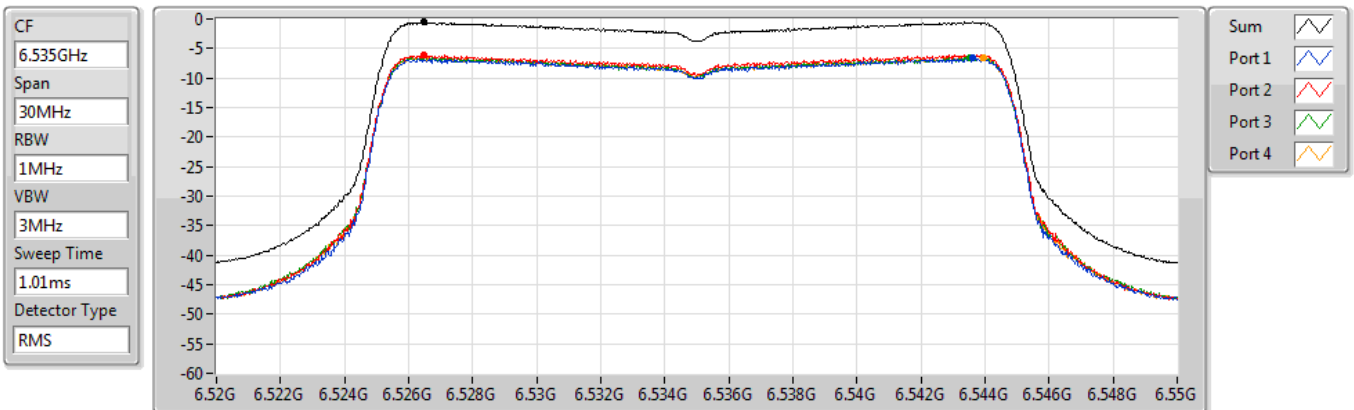
6515MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

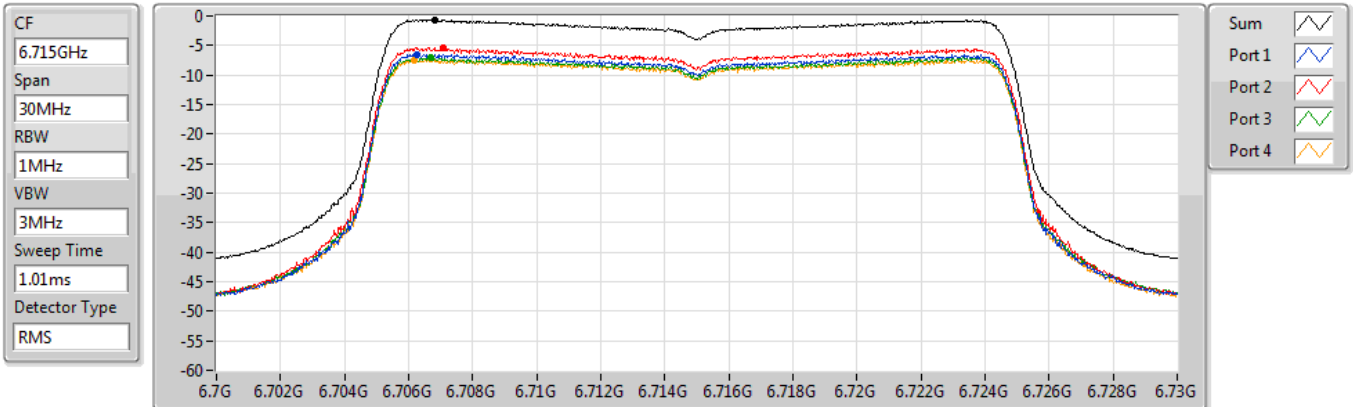
6535MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

6715MHz

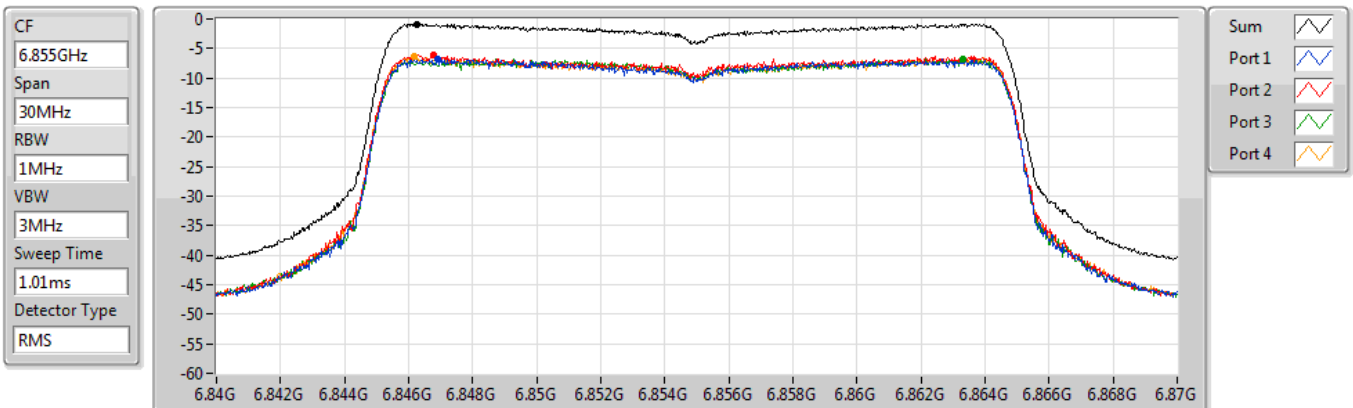


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.60	-0.60	-6.48	-5.41	-7.04	-7.41

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

6855MHz

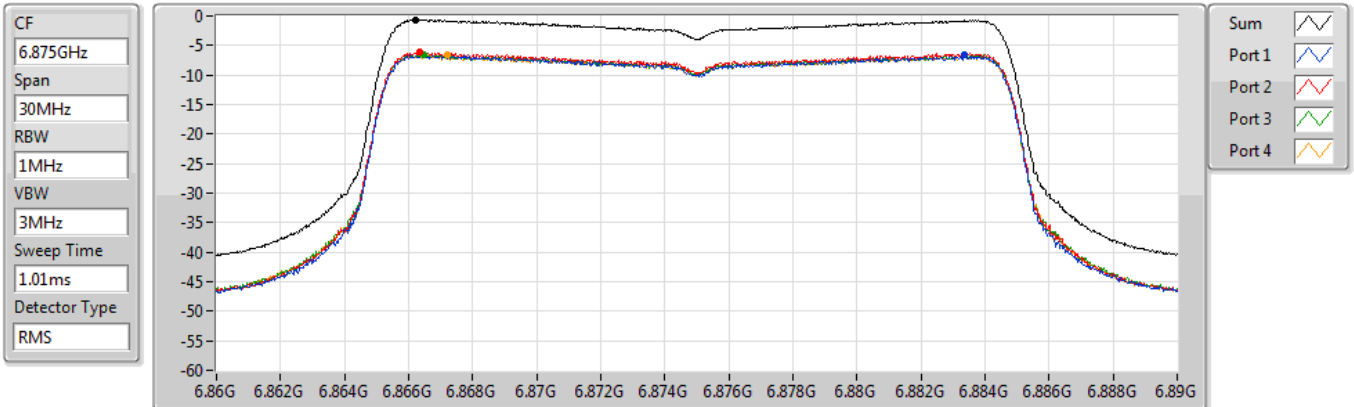


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.84	-0.84	-6.84	-6.06	-6.75	-6.41

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

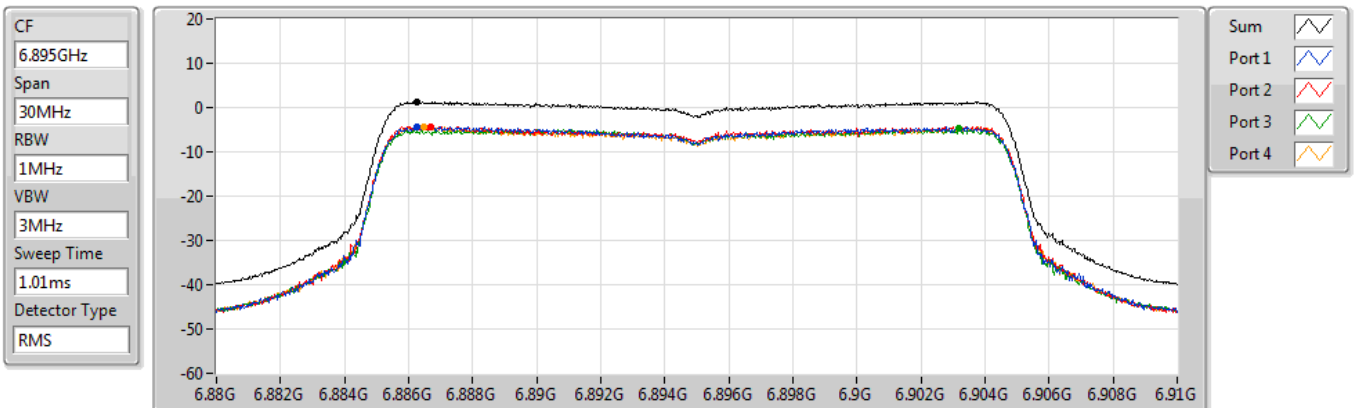
6875MHz Straddle 6.525-6.875GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

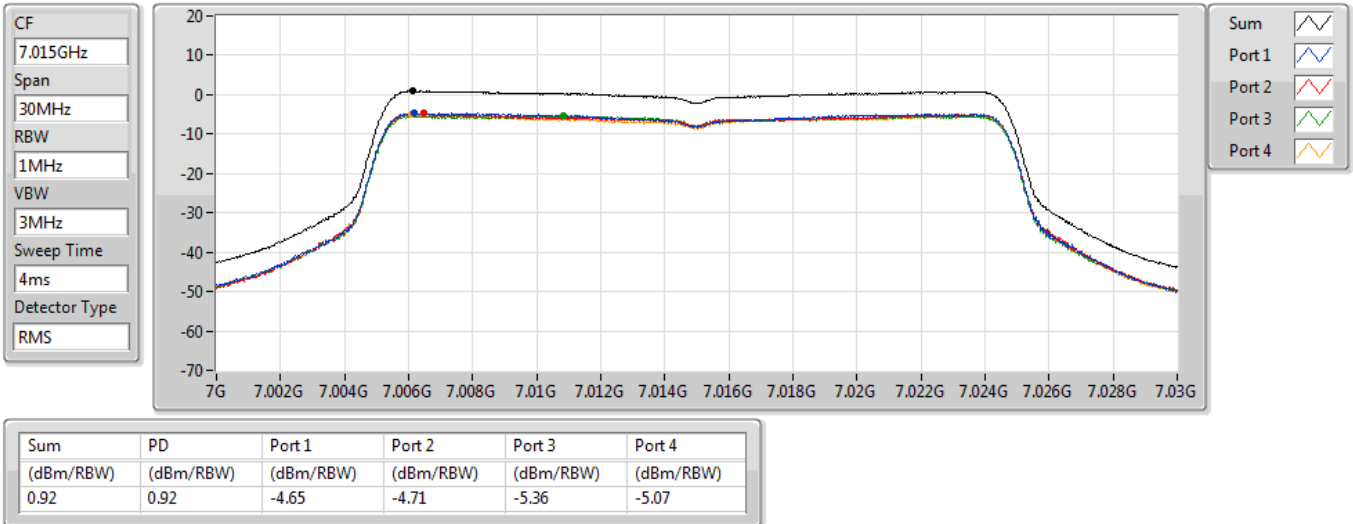
6895MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

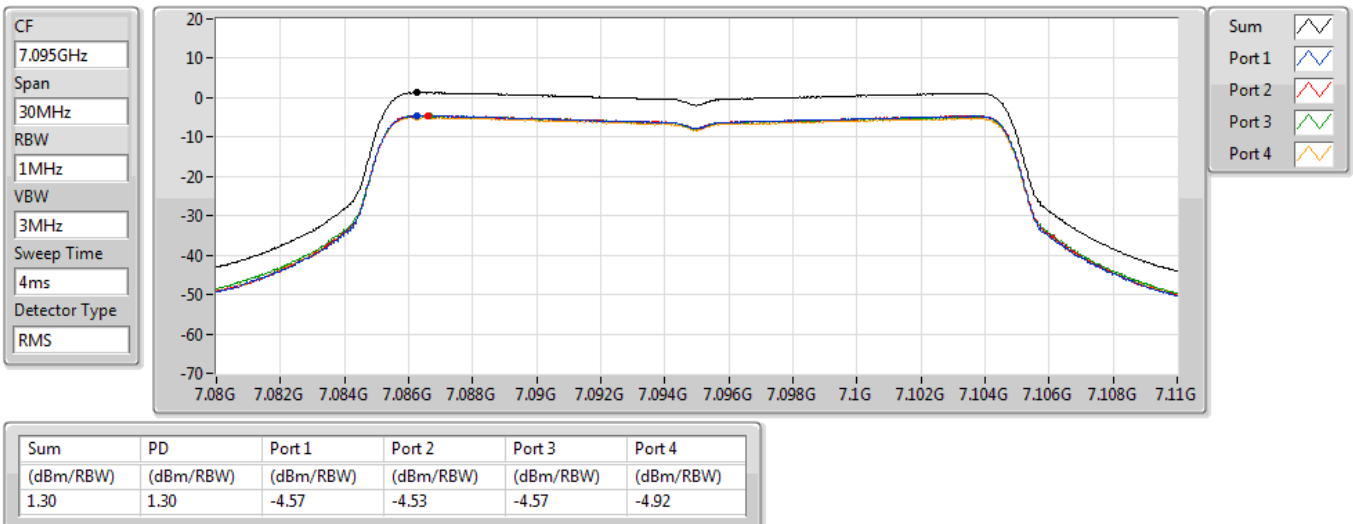
7015MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

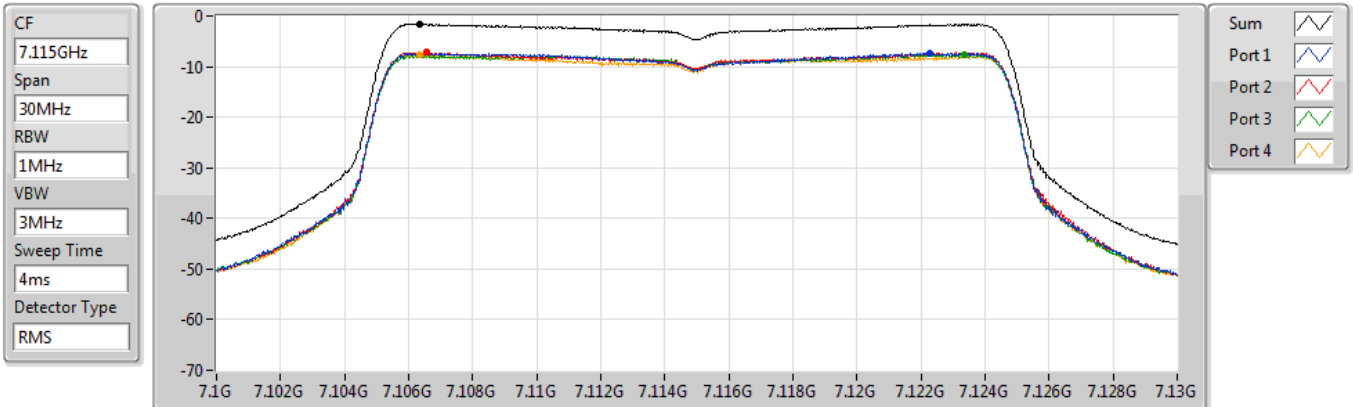
7095MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

7115MHz

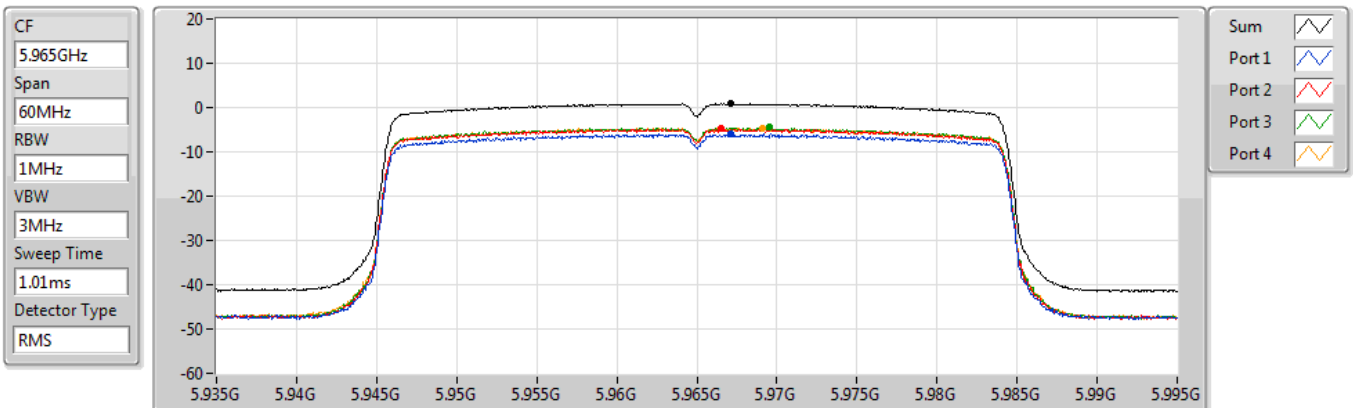


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.55	-1.55	-7.30	-7.12	-7.59	-7.70

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5965MHz

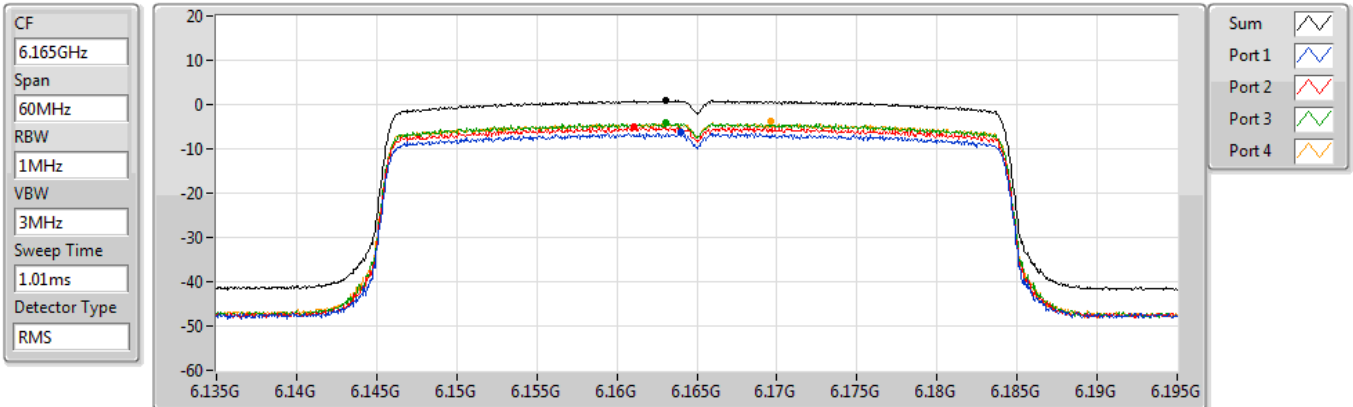


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.91	0.91	-5.98	-4.84	-4.50	-4.69

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6165MHz

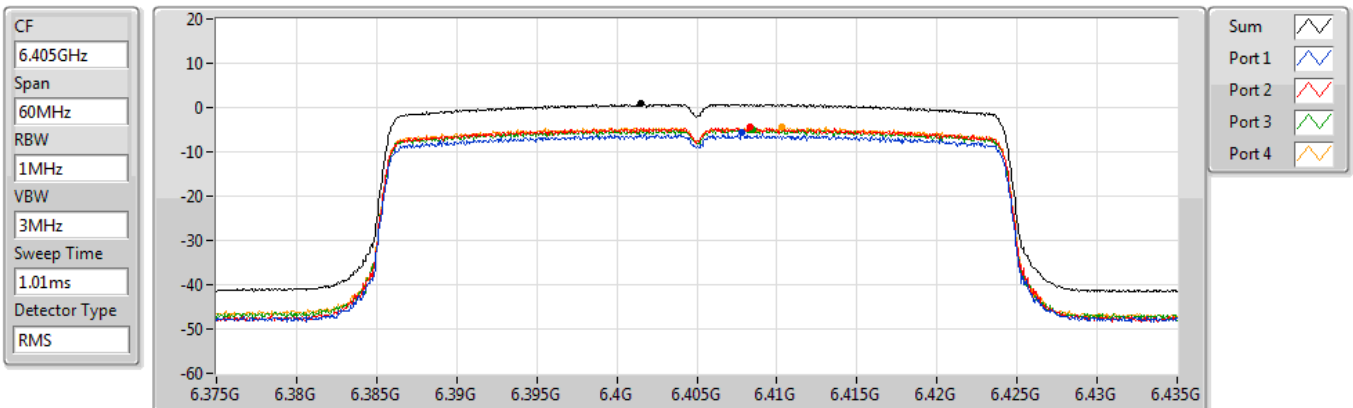


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.00	1.00	-6.40	-4.98	-4.05	-3.84

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6405MHz

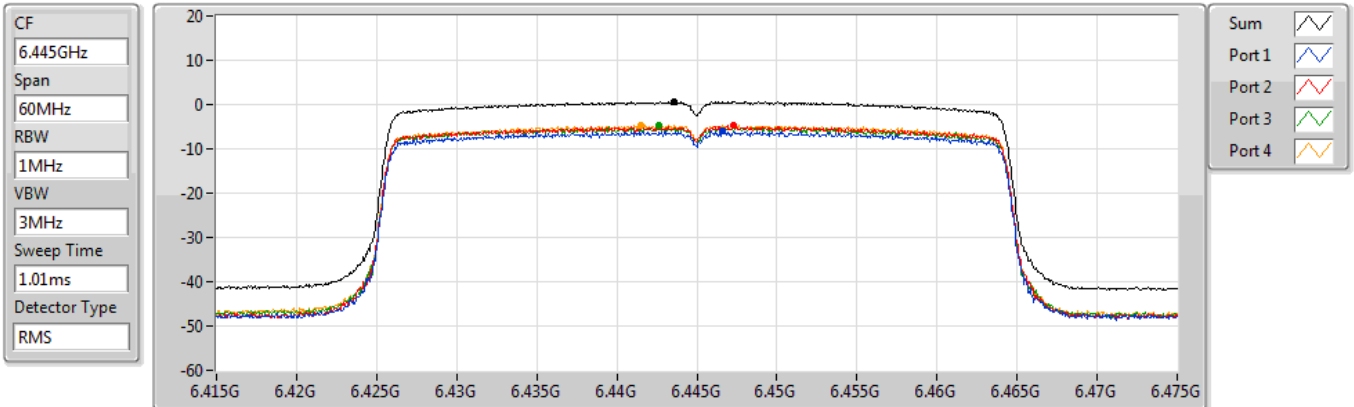


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.80	0.80	-5.72	-4.38	-4.91	-4.39

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

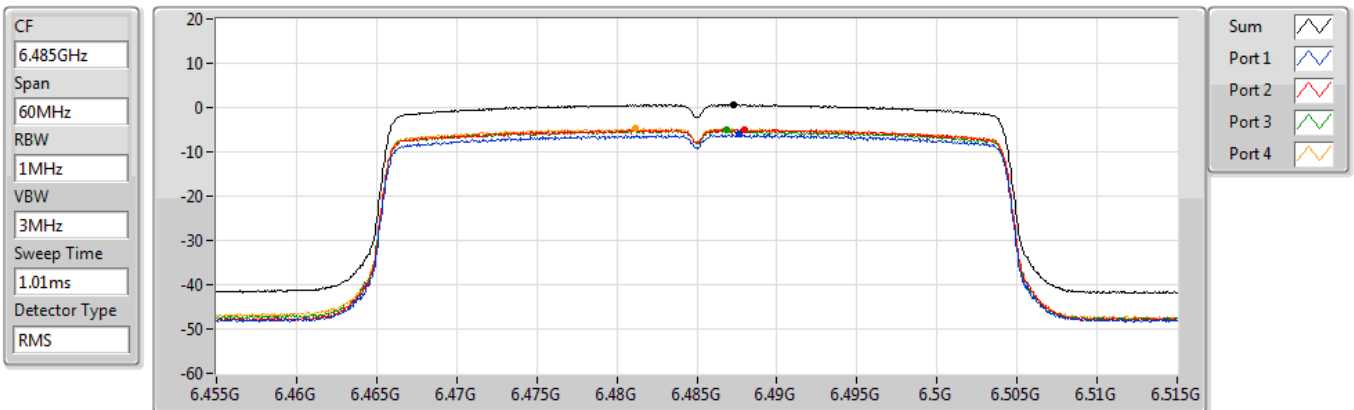
6445MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

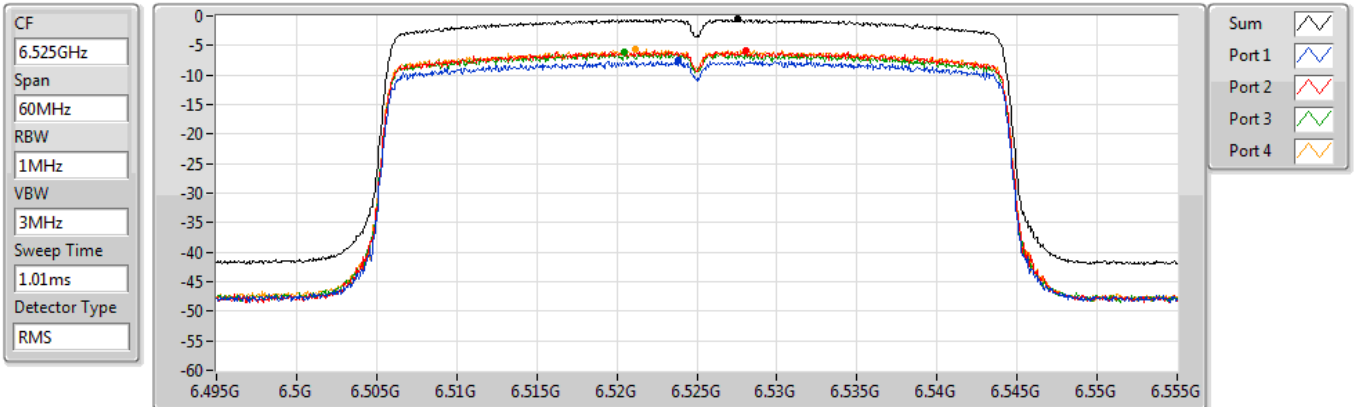
6485MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6525MHz Straddle 6.525-6.875GHz

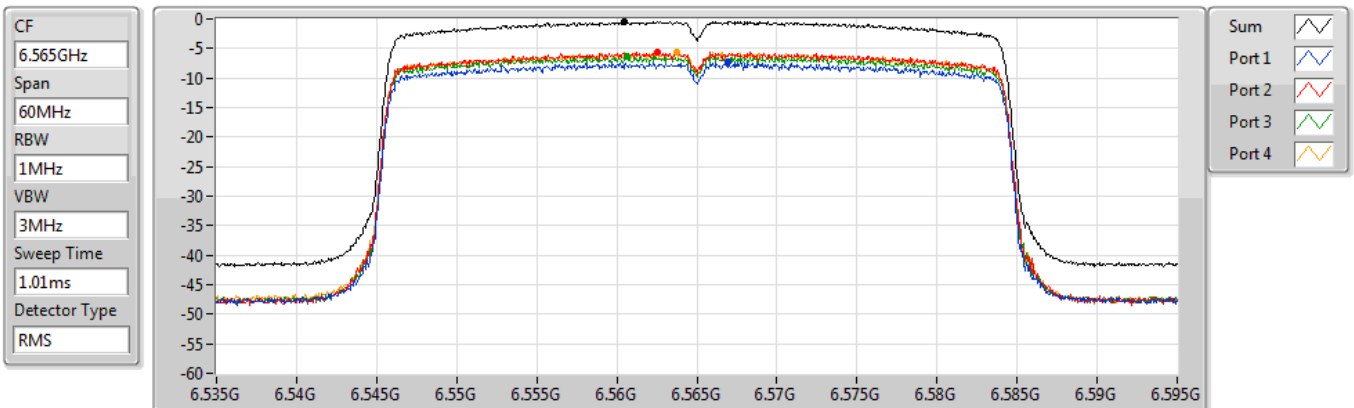


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.56	-0.56	-7.53	-5.94	-6.13	-5.62

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6565MHz

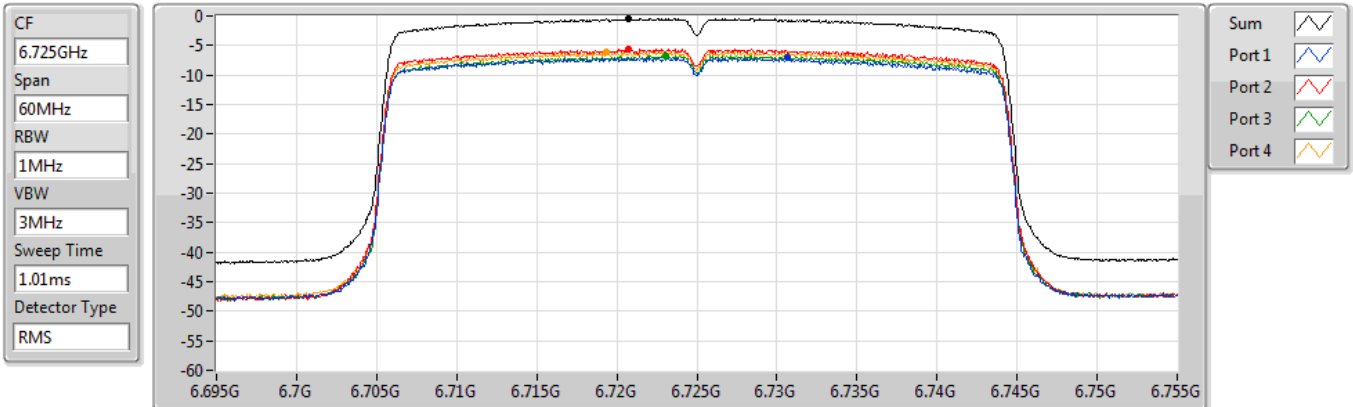


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.44	-0.44	-7.29	-5.57	-6.27	-5.55

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6725MHz

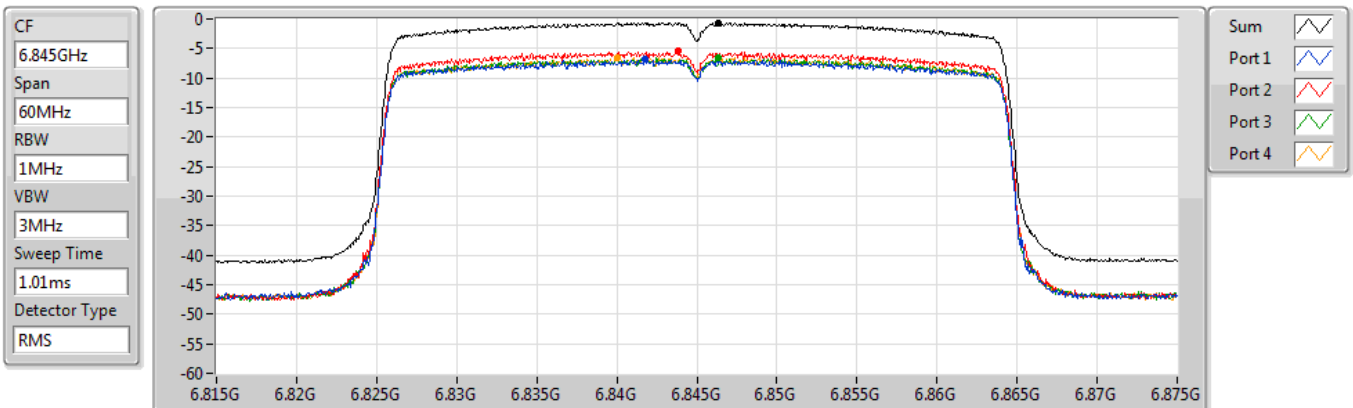


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.48	-0.48	-7.04	-5.54	-6.71	-6.04

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

6845MHz

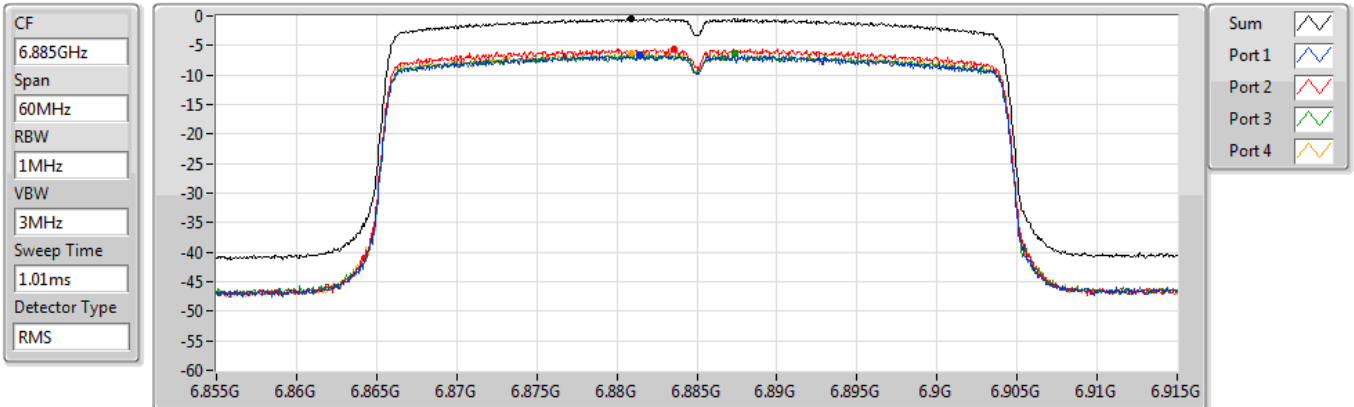


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.61	-0.61	-6.84	-5.34	-6.54	-6.57

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

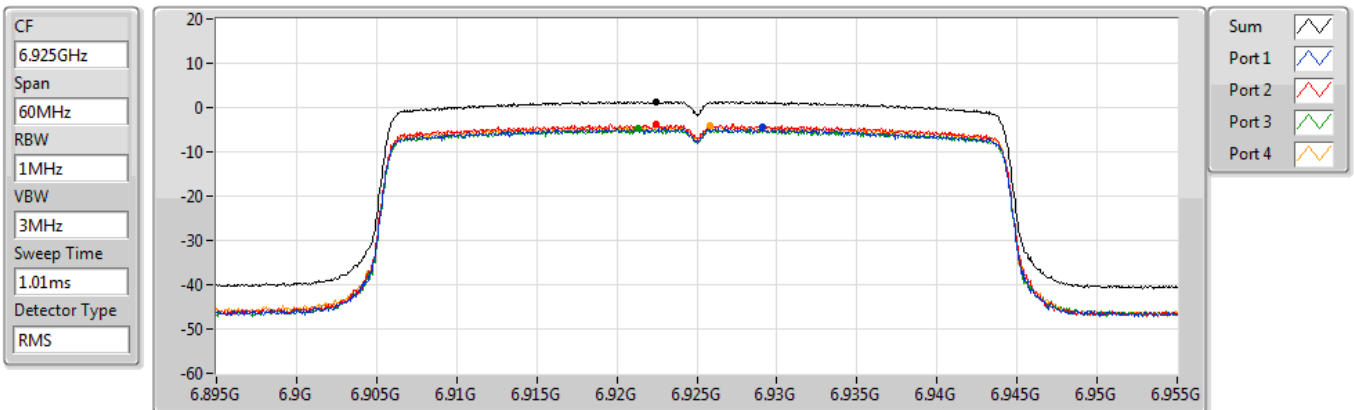
6885MHz Straddle 6.525-6.875GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

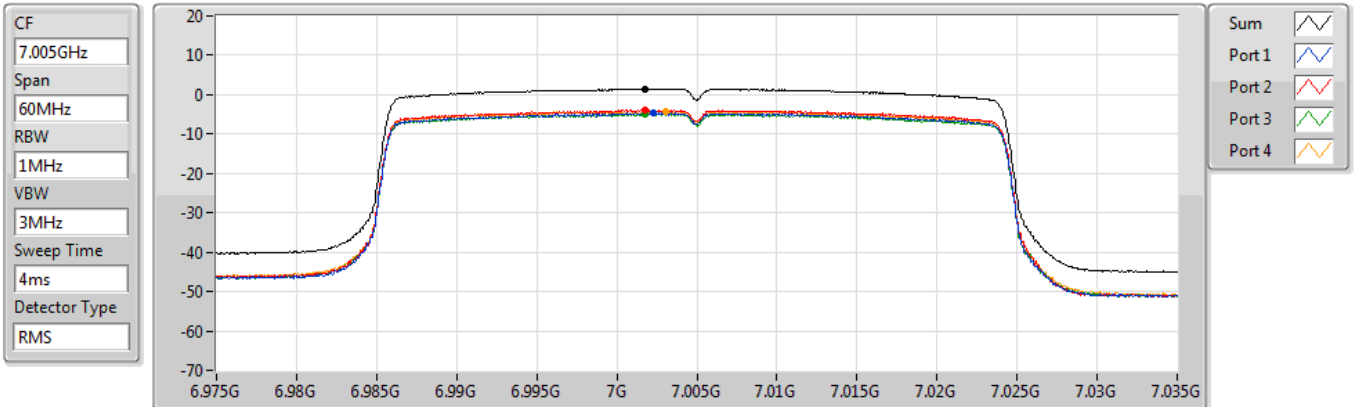
6925MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

7005MHz

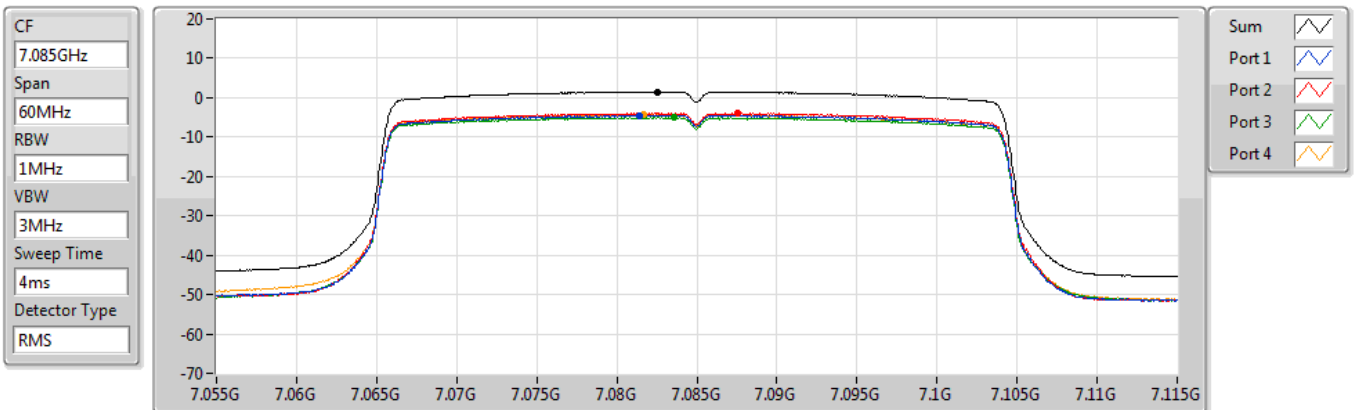


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.49	1.49	-4.64	-3.84	-4.89	-4.15

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

7085MHz

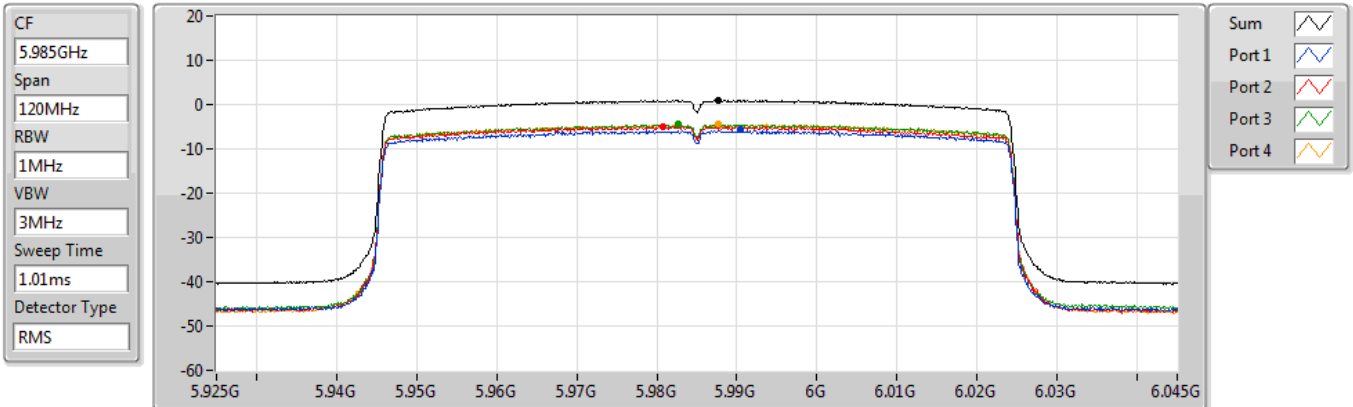


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.50	1.50	-4.49	-3.94	-4.97	-4.28

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5985MHz

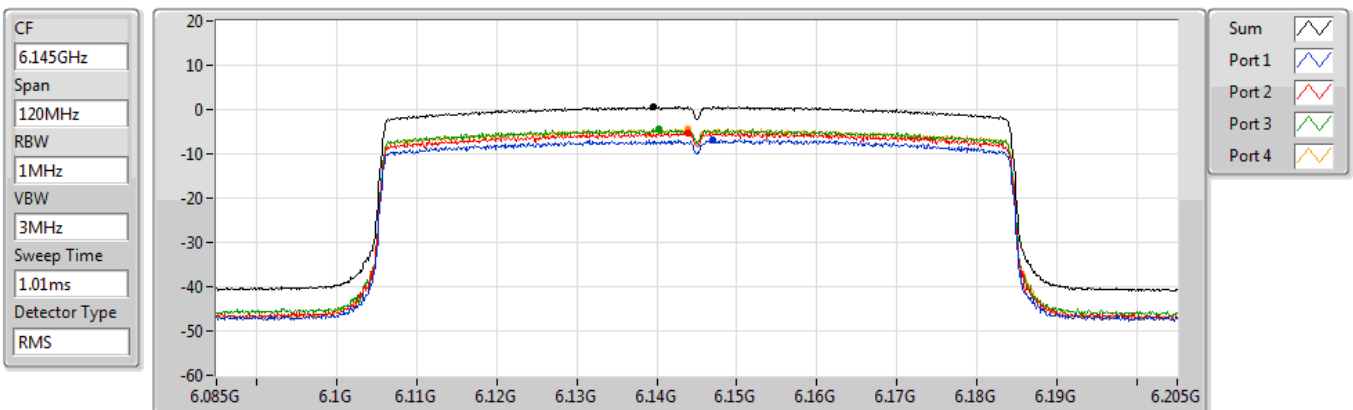


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.97	0.97	-5.76	-5.02	-4.43	-4.48

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

6145MHz

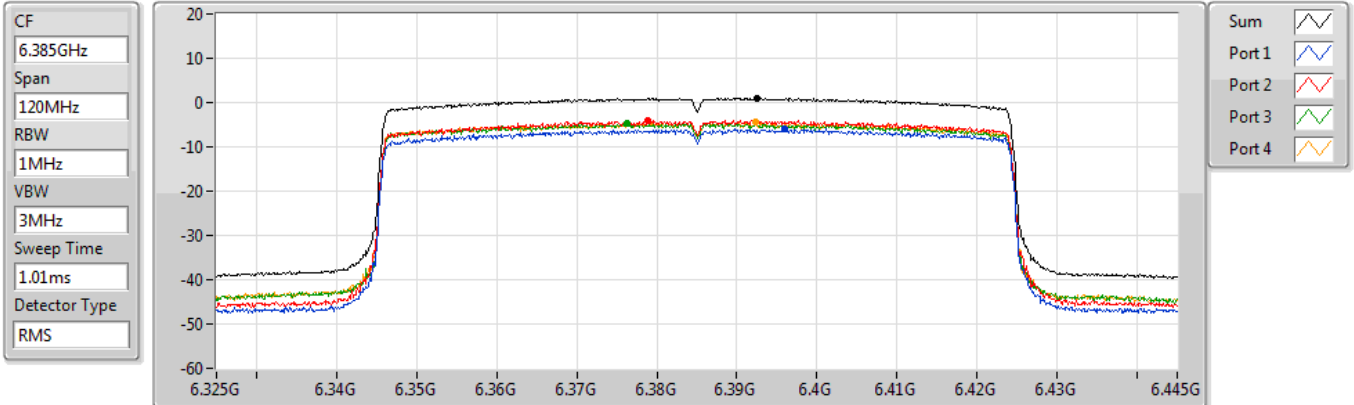


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.62	0.62	-6.74	-5.26	-4.42	-4.44

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

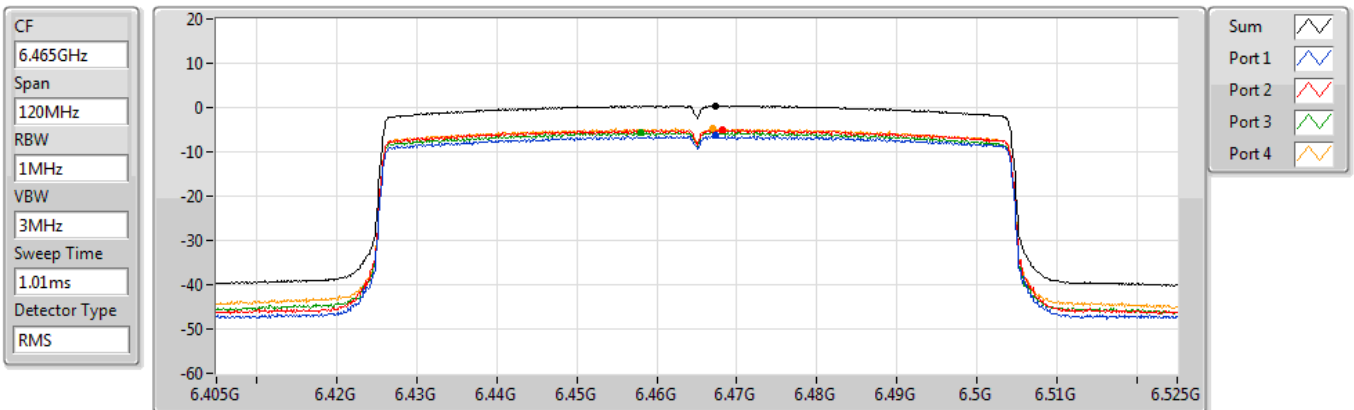
6385MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

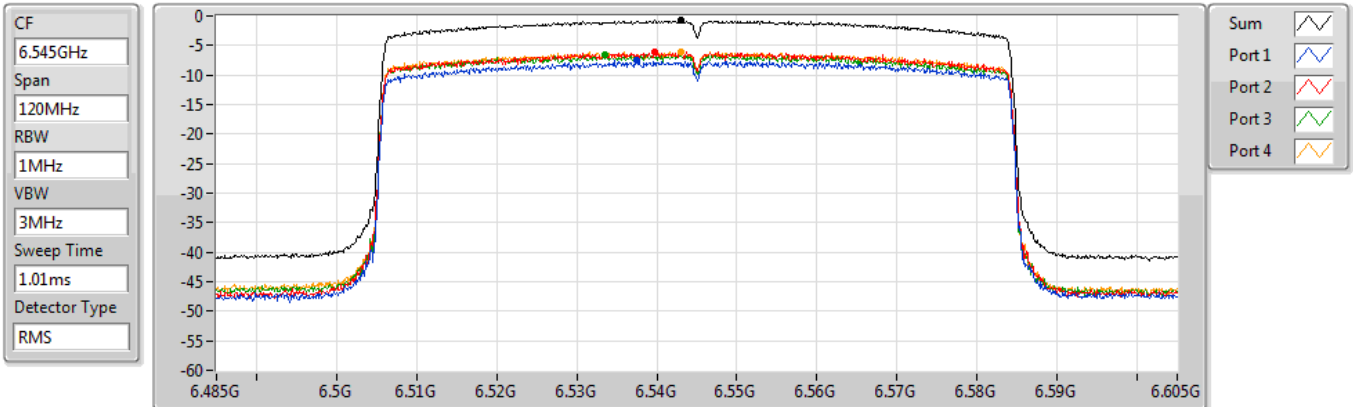
6465MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

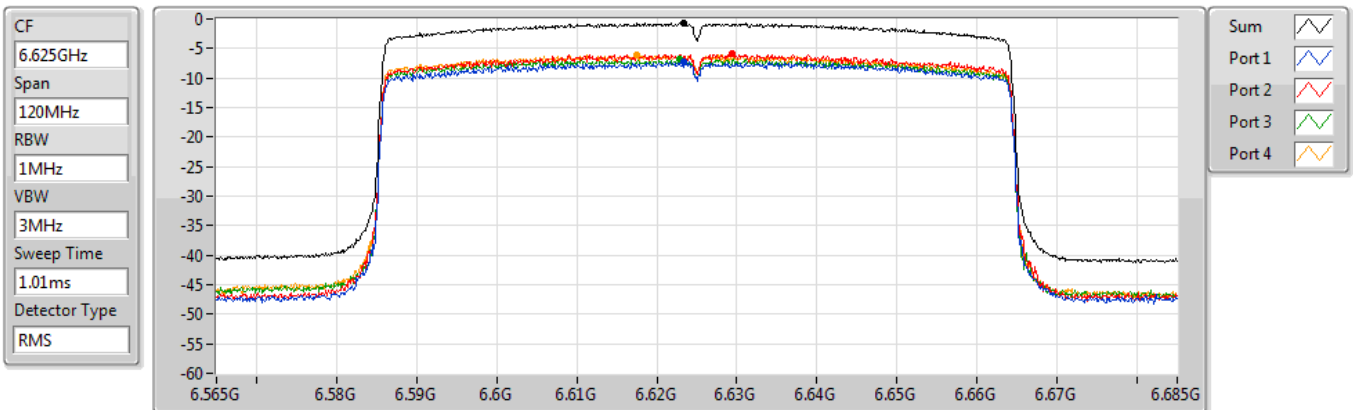
6545MHz Straddle 6.525-6.875GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

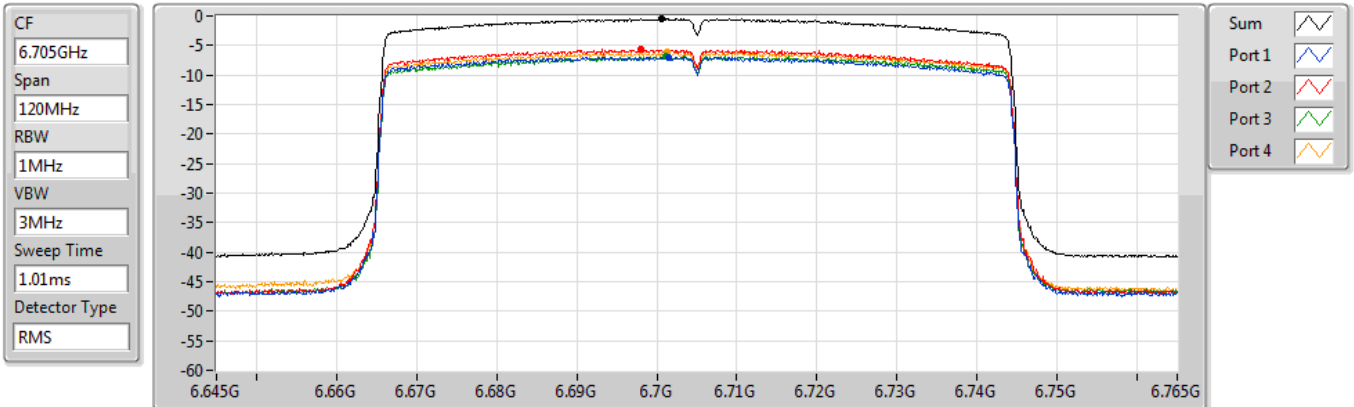
6625MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

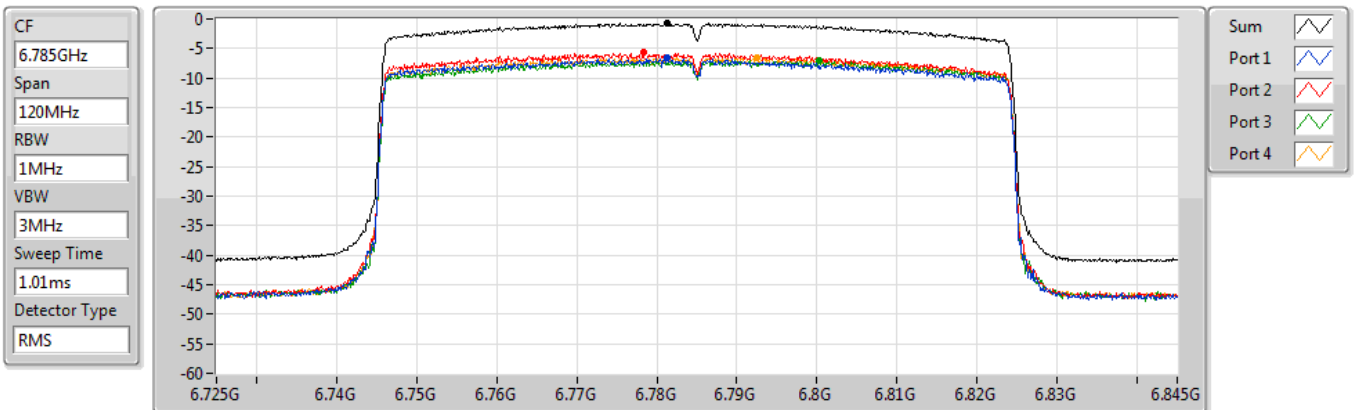
6705MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

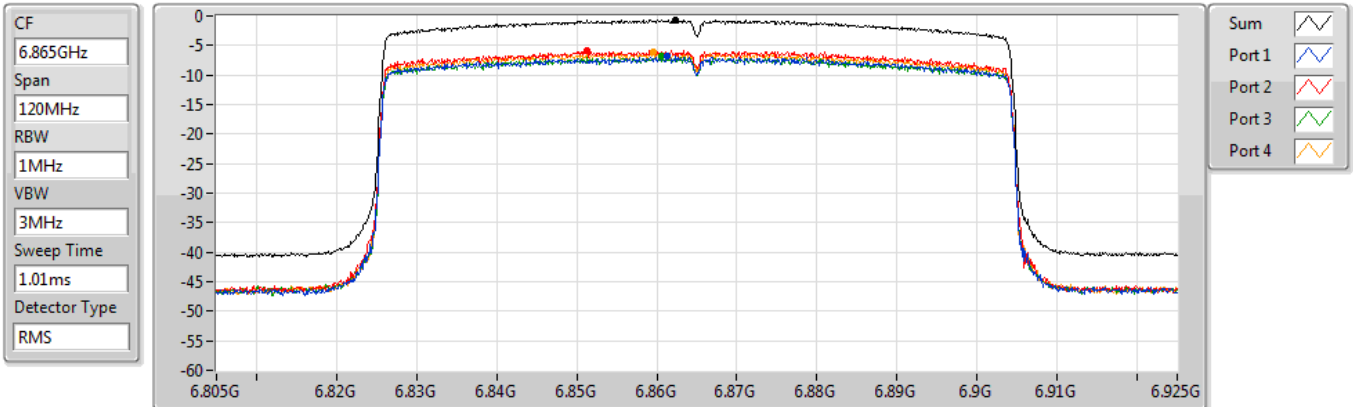
6785MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

6865MHz Straddle 6.525-6.875GHz

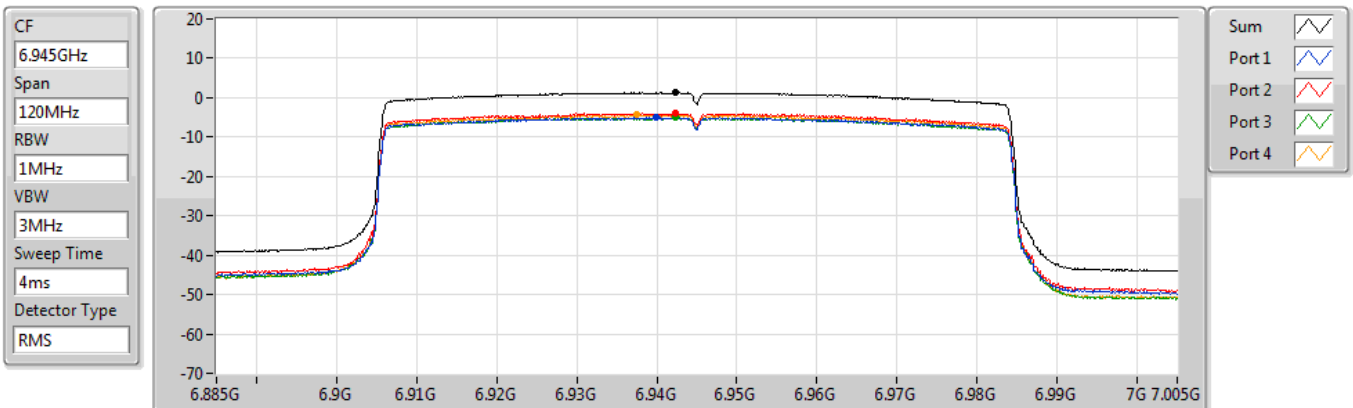


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-0.59	-0.59	-6.84	-5.82	-6.84	-6.14

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

6945MHz

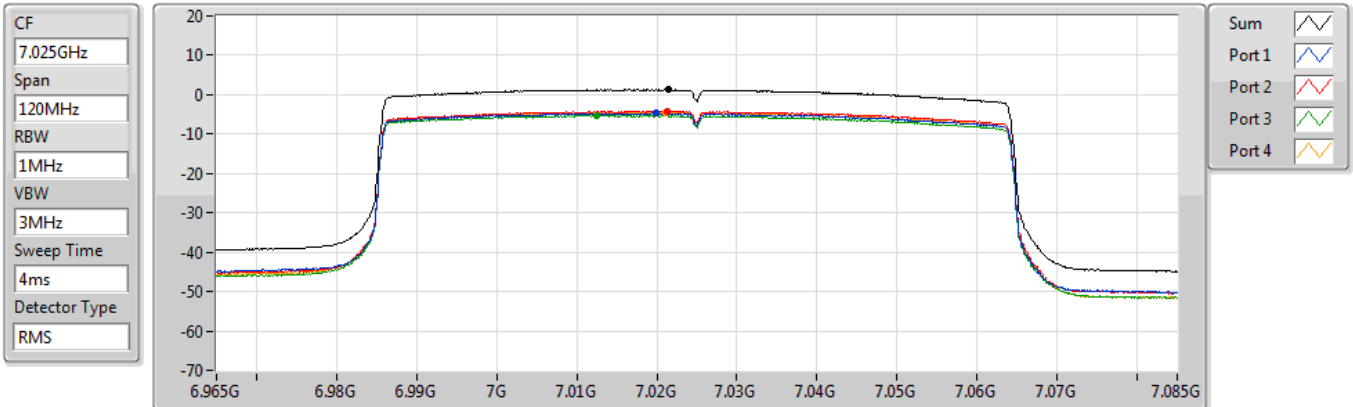


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
1.34	1.34	-4.96	-4.05	-5.08	-4.26

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

7025MHz

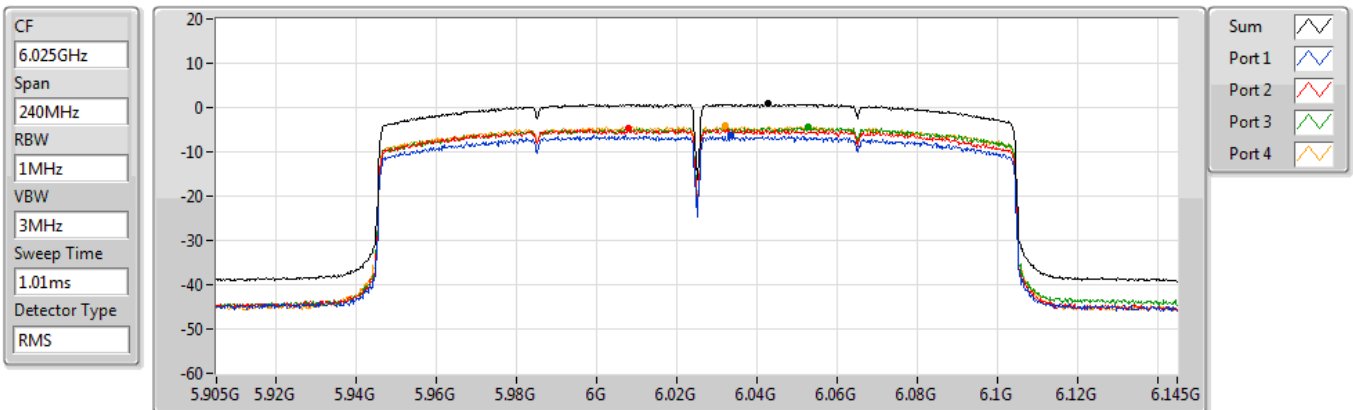


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.28	1.28	-4.77	-4.24	-5.24	-4.48

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6025MHz

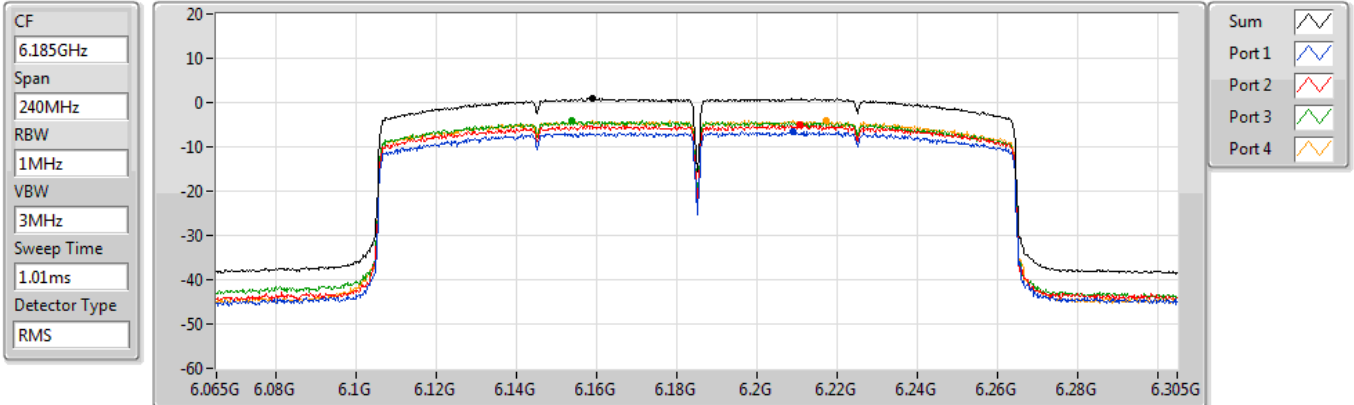


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.80	0.80	-6.29	-4.84	-4.42	-4.19

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6185MHz

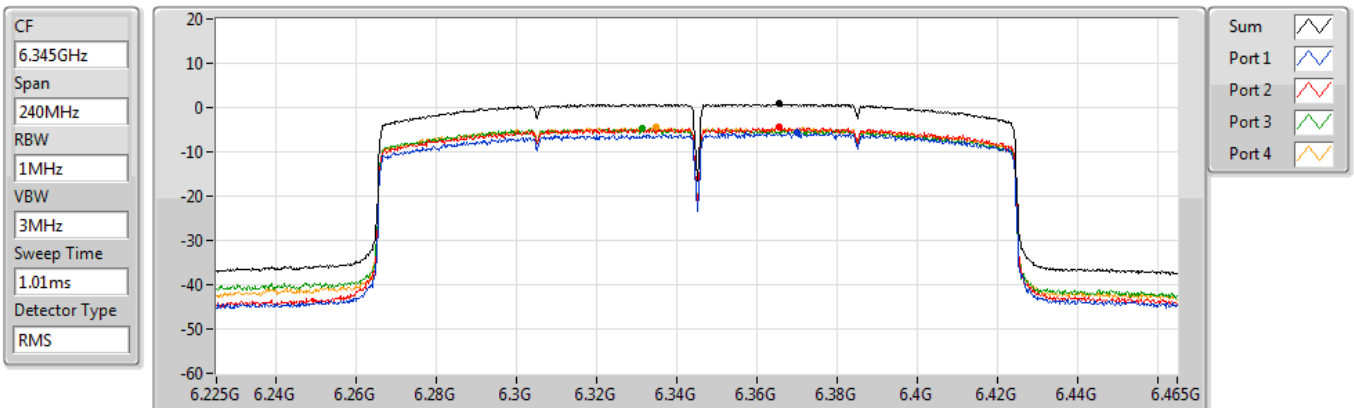


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.90	0.90	-6.57	-5.13	-3.94	-3.98

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6345MHz

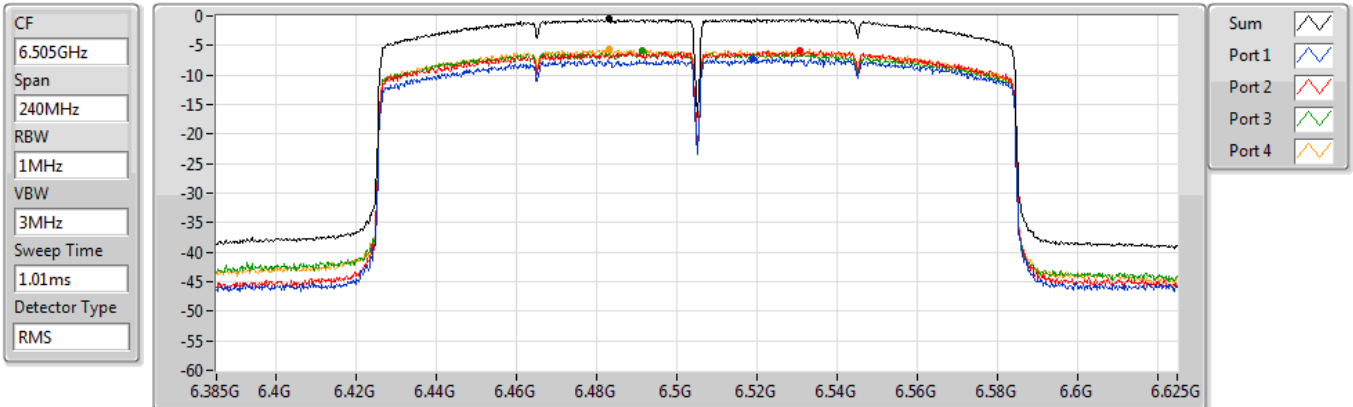


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.85	0.85	-5.59	-4.53	-4.64	-4.44

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6505MHz Straddle 6.525-6.875GHz

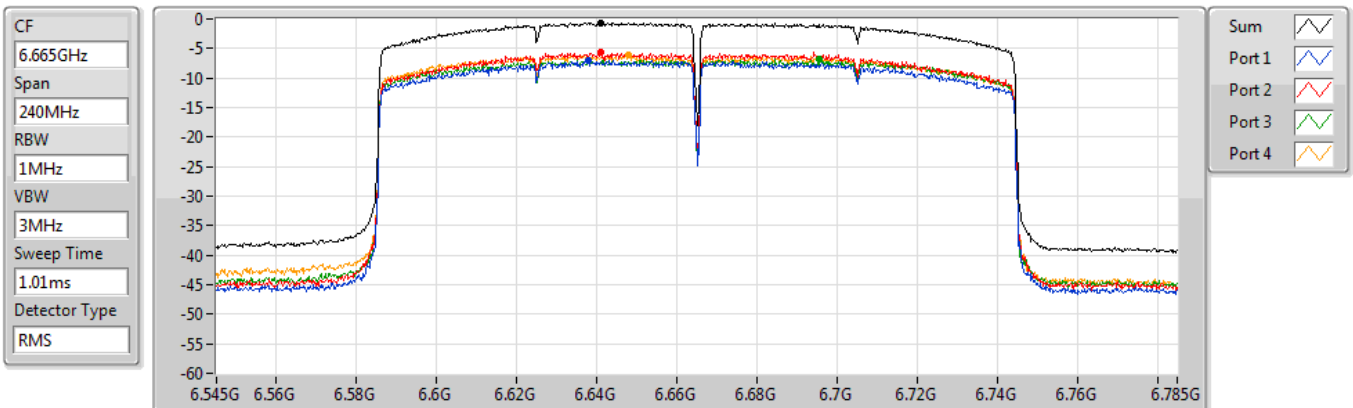


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.51	-0.51	-7.23	-5.79	-5.96	-5.58

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6665MHz

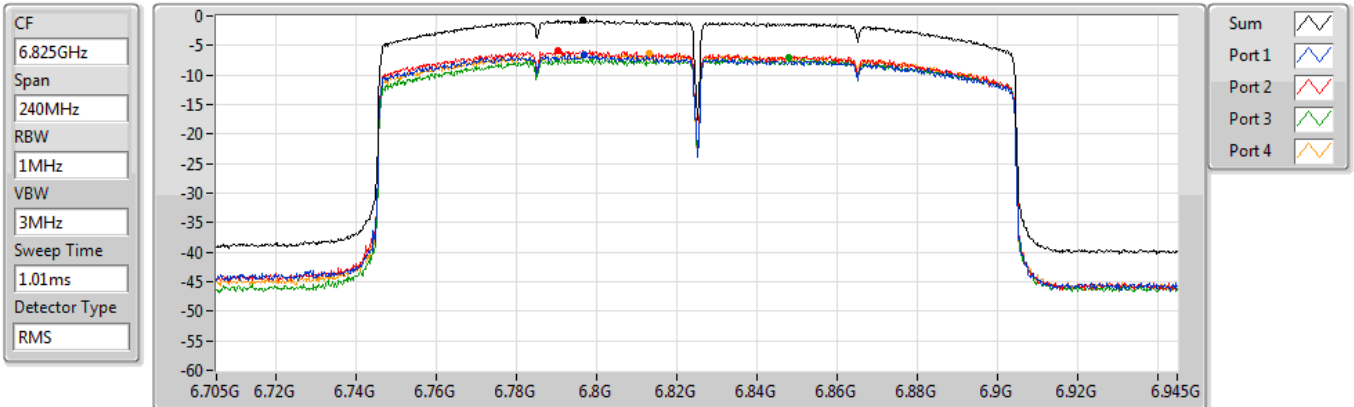


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.64	-0.64	-7.06	-5.56	-6.77	-6.21

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

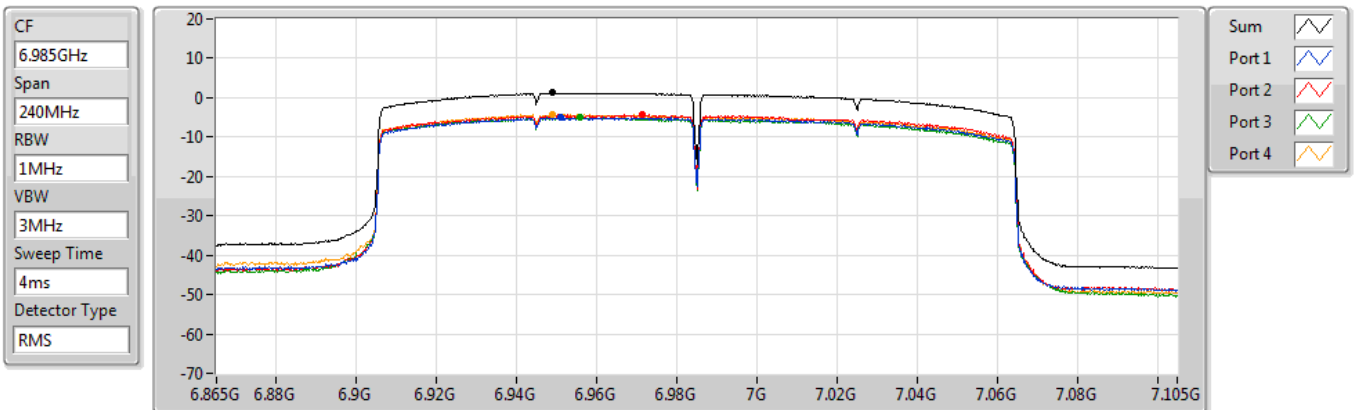
6825MHz Straddle 6.525-6.875GHz



802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

6985MHz





Adapter mode

Unwanted Emissions (Below 1GHz)

Modulation	ax HE160	Test Freq. (MHz)	6985																																																																						
Polarization	Horizontal																																																																								
Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																									
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>39.64</td><td>27.55</td><td>40.00</td><td>-12.45</td><td>36.31</td><td>-8.76</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>89.25</td><td>28.72</td><td>43.50</td><td>-14.78</td><td>43.23</td><td>-14.51</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>132.91</td><td>33.64</td><td>43.50</td><td>-9.86</td><td>43.03</td><td>-9.39</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>158.11</td><td>31.59</td><td>43.50</td><td>-11.91</td><td>40.08</td><td>-8.49</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>166.82</td><td>30.65</td><td>43.50</td><td>-12.85</td><td>39.32</td><td>-8.67</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>218.22</td><td>31.48</td><td>46.00</td><td>-14.52</td><td>43.04</td><td>-11.56</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	39.64	27.55	40.00	-12.45	36.31	-8.76	Peak	---	---	2	89.25	28.72	43.50	-14.78	43.23	-14.51	Peak	---	---	3	132.91	33.64	43.50	-9.86	43.03	-9.39	Peak	---	---	4	158.11	31.59	43.50	-11.91	40.08	-8.49	Peak	---	---	5	166.82	30.65	43.50	-12.85	39.32	-8.67	Peak	---	---	6	218.22	31.48	46.00	-14.52	43.04	-11.56	Peak	---	---
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2	89.25	28.72	43.50	-14.78	43.23	-14.51	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)	6985																																																																																										
Polarization	Vertical																																																																																												
Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																																													
Level (dBuV/m) The graph displays the emission level in dBuV/m across a frequency range from 30 to 1000 MHz. A red step-like line represents the CLASS-B limit, starting at 40 dBuV/m for frequencies below 100 MHz, rising to 45 dBuV/m between 100 and 200 MHz, and then to 50 dBuV/m for frequencies above 200 MHz. A blue line shows the measured emission spectrum, with several peaks labeled 1 through 6. Peak 1 is at 33.84 MHz, peak 2 at 42.81 MHz, peak 3 at 86.34 MHz, peak 4 at 133.88 MHz, peak 5 at 164.78 MHz, and peak 6 at 214.41 MHz. The emission levels for these peaks are 34.22, 33.94, 34.28, 29.65, 32.12, and 29.86 dBuV/m respectively. The margin for each peak is calculated as the emission level minus the limit, resulting in values of -5.78, -6.06, -5.72, -13.85, -11.38, and -13.64 dB. <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></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>33.84</td><td>34.22</td><td>40.00</td><td>-5.78</td><td>43.81</td><td>-9.59</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>42.81</td><td>33.94</td><td>40.00</td><td>-6.06</td><td>42.36</td><td>-8.42</td><td>QP</td><td>100</td><td>264</td></tr><tr><td>3</td><td>86.34</td><td>34.28</td><td>40.00</td><td>-5.72</td><td>48.67</td><td>-14.39</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>133.88</td><td>29.65</td><td>43.50</td><td>-13.85</td><td>38.86</td><td>-9.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>164.78</td><td>32.12</td><td>43.50</td><td>-11.38</td><td>40.68</td><td>-8.56</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>214.41</td><td>29.86</td><td>43.50</td><td>-13.64</td><td>41.43</td><td>-11.57</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	33.84	34.22	40.00	-5.78	43.81	-9.59	Peak	---	---	2	42.81	33.94	40.00	-6.06	42.36	-8.42	QP	100	264	3	86.34	34.28	40.00	-5.72	48.67	-14.39	Peak	---	---	4	133.88	29.65	43.50	-13.85	38.86	-9.21	Peak	---	---	5	164.78	32.12	43.50	-11.38	40.68	-8.56	Peak	---	---	6	214.41	29.86	43.50	-13.64	41.43	-11.57	Peak	---	---
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					dBuV			cm	deg																																																																																				
1	33.84	34.22	40.00	-5.78	43.81	-9.59	Peak	---	---																																																																																				
2	42.81	33.94	40.00	-6.06	42.36	-8.42	QP	100	264																																																																																				
3	86.34	34.28	40.00	-5.72	48.67	-14.39	Peak	---	---																																																																																				
4	133.88	29.65	43.50	-13.85	38.86	-9.21	Peak	---	---																																																																																				
5	164.78	32.12	43.50	-11.38	40.68	-8.56	Peak	---	---																																																																																				
6	214.41	29.86	43.50	-13.64	41.43	-11.57	Peak	---	---																																																																																				
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.																																																																																													

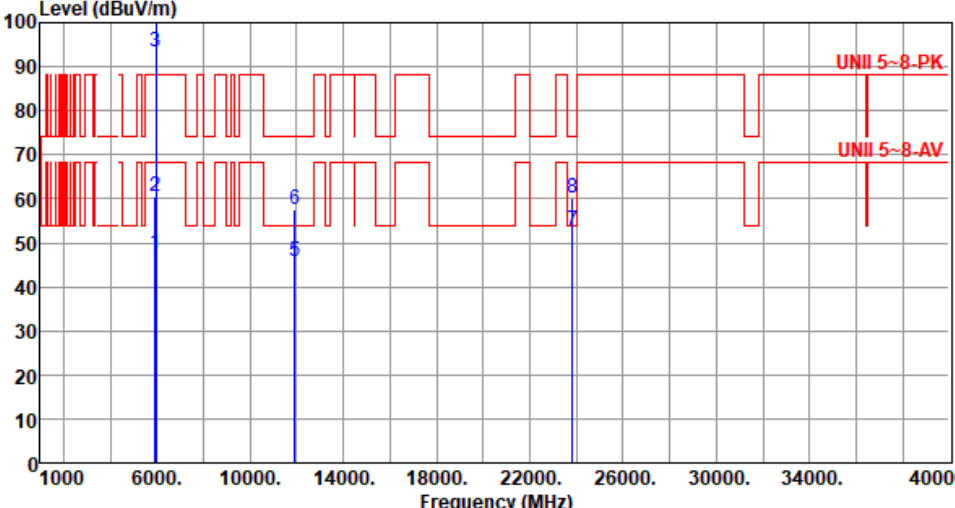
Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	5935
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):67			
Level (dBuV/m) <			



Modulation	ax HE20	Test Freq. (MHz)	5935																																																																																										
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Polarization	Horizontal																																																																																												
Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																																													
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Modulation		ax HE20		Test Freq. (MHz)		6415																																																																																																																													
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Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67																																																																																																																	
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Polarization	Horizontal																																																																																																																
Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																																																																	
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Modulation		ax HE20			Test Freq. (MHz)		6435			
Polarization		Vertical								
Test By		:Brad Wu			Temperature(°C):24		Humidity(%):67			
Level (dBuV/m)										

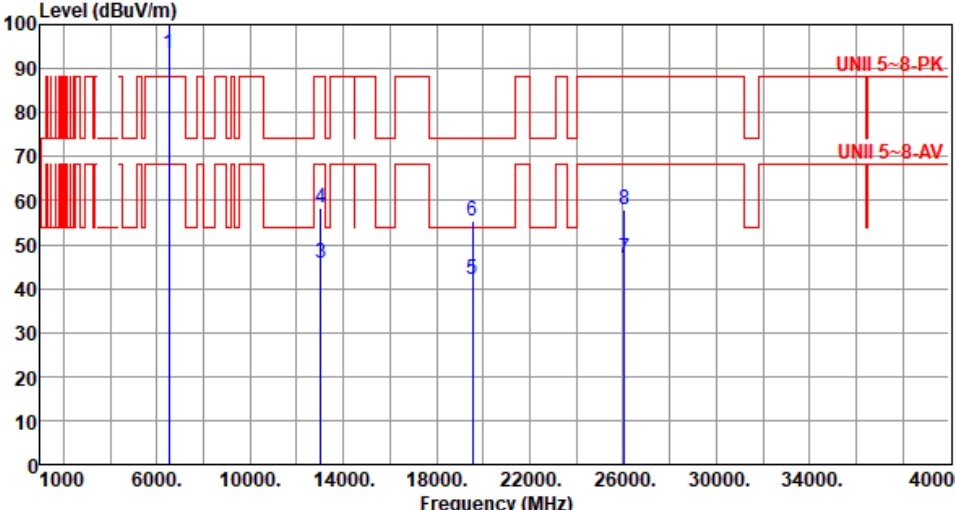


Modulation		ax HE20		Test Freq. (MHz)		6475																																																																																																																												
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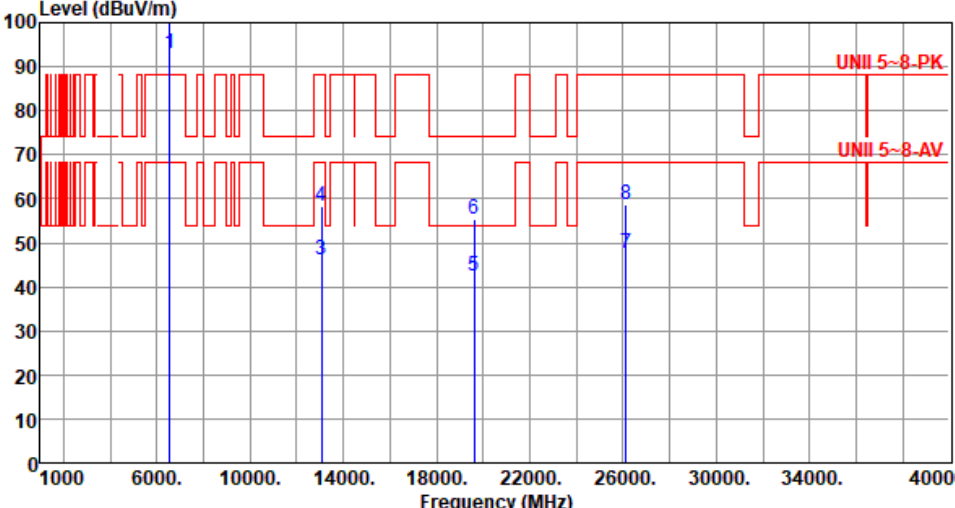


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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																														
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Modulation	ax HE20		Test Freq. (MHz)		6535					
Polarization	Vertical									
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67				
										
		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	*	6535.00	92.84			83.94	8.90	Average	218	50
2	*	6535.00	105.79			96.89	8.90	Peak	218	50
3		13070.00	46.24	68.20	-21.96	30.62	15.62	Average	100	26
4		13070.00	58.19	88.20	-30.01	42.57	15.62	Peak	100	26
5		19605.00	42.61	54.00	-11.39	37.56	5.05	Average	100	34
6		19605.00	55.38	74.00	-18.62	50.33	5.05	Peak	100	34
7		26140.00	47.52	68.20	-20.68	35.40	12.12	Average	258	29
8		26140.00	58.55	88.20	-29.65	46.43	12.12	Peak	258	29

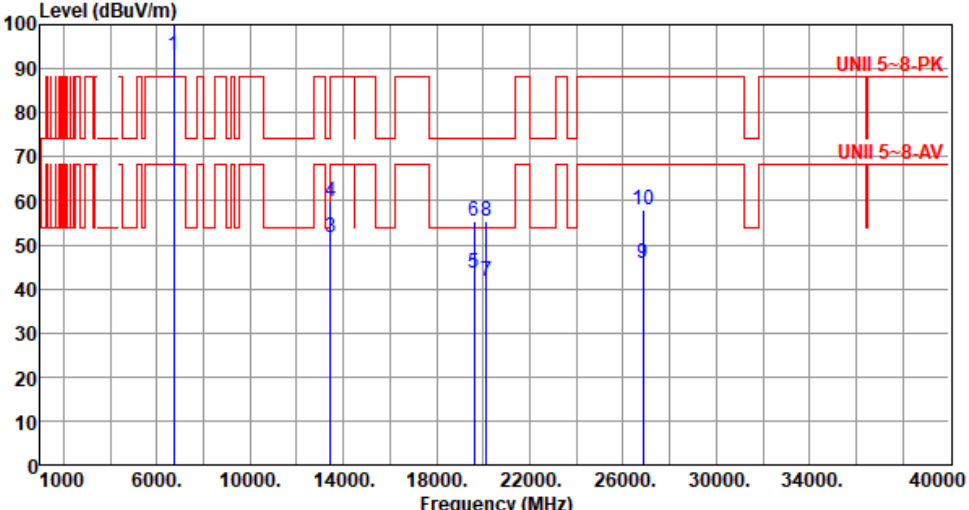
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)

*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)		6715																																																																																																																																																		
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Modulation		ax HE20		Test Freq. (MHz)		6715																																																																																																																																																		
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Modulation		ax HE20		Test Freq. (MHz)		6855																																																																																																																													
Polarization		Horizontal																																																																																																																																	
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67																																																																																																																													
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><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></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>6855.00</td><td>93.44</td><td></td><td></td><td>84.27</td><td>9.17</td><td>Average</td><td>226</td><td>35</td></tr><tr><td>2</td><td>*</td><td>6855.00</td><td>106.56</td><td>-----</td><td>-----</td><td>97.39</td><td>9.17</td><td>Peak</td><td>226</td><td>35</td></tr><tr><td>3</td><td></td><td>13710.00</td><td>46.14</td><td>68.20</td><td>-22.06</td><td>29.19</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>57.72</td><td>88.20</td><td>-30.48</td><td>40.77</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>42.31</td><td>54.00</td><td>-11.69</td><td>35.83</td><td>6.48</td><td>Average</td><td>102</td><td>51</td></tr><tr><td>6</td><td></td><td>20565.00</td><td>55.42</td><td>74.00</td><td>-18.58</td><td>48.94</td><td>6.48</td><td>Peak</td><td>102</td><td>51</td></tr><tr><td>7</td><td></td><td>27420.00</td><td>45.15</td><td>68.20</td><td>-23.05</td><td>31.85</td><td>13.30</td><td>Average</td><td>152</td><td>232</td></tr><tr><td>8</td><td></td><td>27420.00</td><td>58.38</td><td>88.20</td><td>-29.82</td><td>45.08</td><td>13.30</td><td>Peak</td><td>152</td><td>232</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.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn			MHz	level			reading			High	Table				dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	*	6855.00	93.44			84.27	9.17	Average	226	35	2	*	6855.00	106.56	-----	-----	97.39	9.17	Peak	226	35	3		13710.00	46.14	68.20	-22.06	29.19	16.95	Average	100	52	4		13710.00	57.72	88.20	-30.48	40.77	16.95	Peak	100	52	5		20565.00	42.31	54.00	-11.69	35.83	6.48	Average	102	51	6		20565.00	55.42	74.00	-18.58	48.94	6.48	Peak	102	51	7		27420.00	45.15	68.20	-23.05	31.85	13.30	Average	152	232	8		27420.00	58.38	88.20	-29.82	45.08	13.30	Peak	152	232
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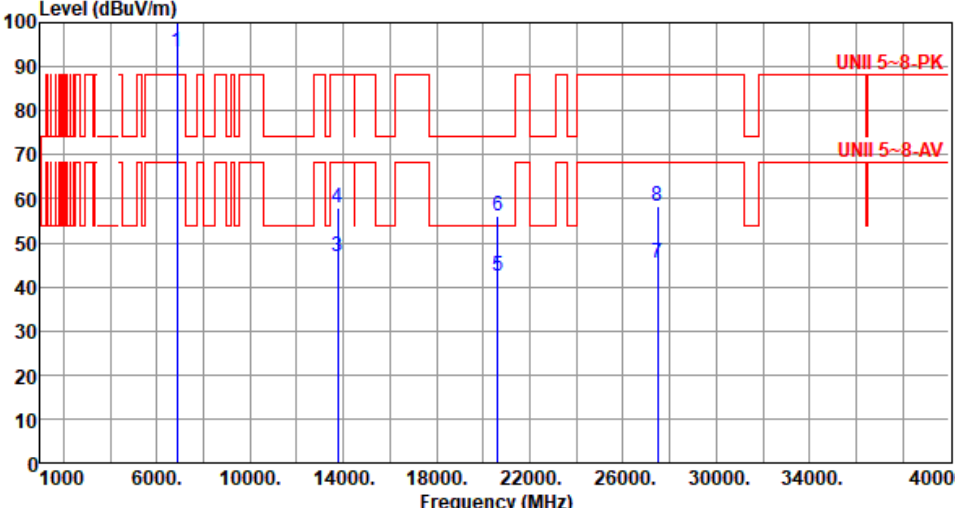


Modulation	ax HE20	Test Freq. (MHz)	6855
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):67			
Level (dBuV/m) </			



Modulation		ax HE20		Test Freq. (MHz)		6875																																																																																																																										
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Modulation		ax HE20		Test Freq. (MHz)		7015			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67			
Level (dBuV/m) </									



Modulation		ax HE20			Test Freq. (MHz)		7015			
Polarization		Vertical								
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67				
Level (dBUV/m) </										

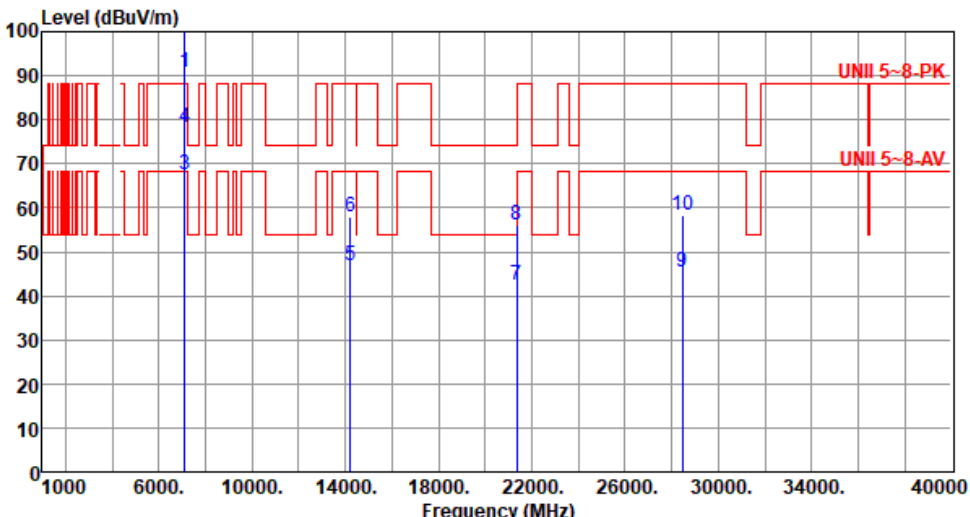


Modulation		ax HE20		Test Freq. (MHz)		7095																																																																																																																	
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Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																																													
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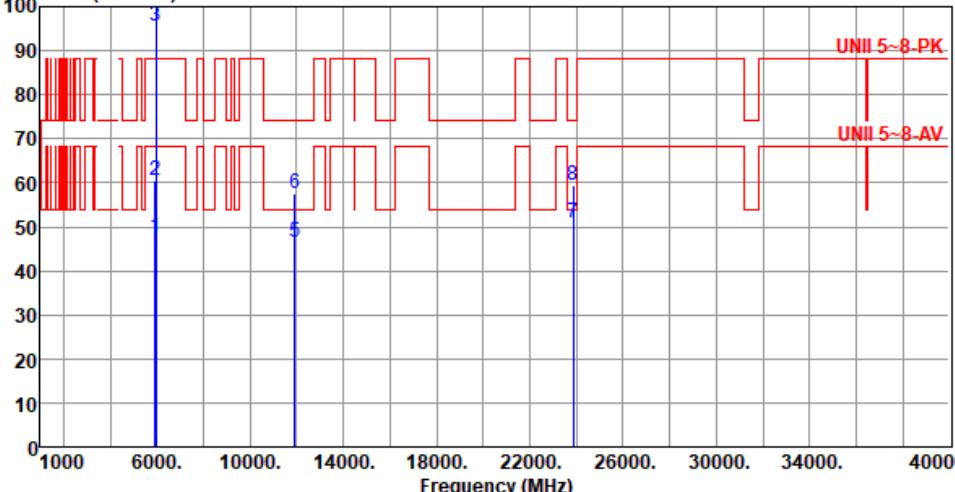


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Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40	Test Freq. (MHz)	5965
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):67			
Level (dBUV/m) </			



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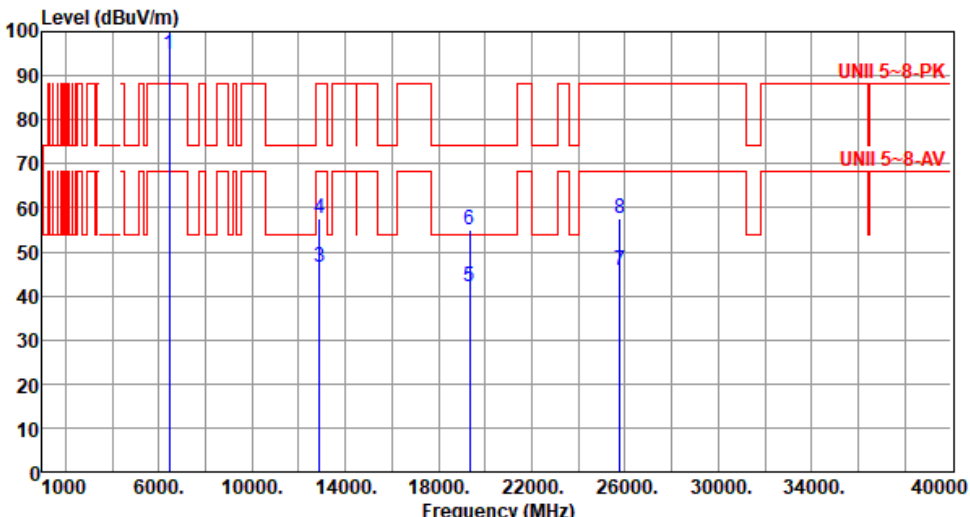


Modulation		ax HE40		Test Freq. (MHz)		6405																																																																																																																												
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Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67																																																																																																																												
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Polarization		Horizontal								
Test By		:Brad Wu		Temperature(°C):24			Humidity(%):67			
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Modulation		ax HE40		Test Freq. (MHz)		6485				
Polarization		Vertical								
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67				
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	*	6485.00	94.49			85.83	8.66	Average	229	50
2	*	6485.00	107.98			99.32	8.66	Peak	229	50
3		12970.00	46.24	68.20	-21.96	30.75	15.49	Average	100	33
4		12970.00	58.29	88.20	-29.91	42.80	15.49	Peak	100	33
5		19455.00	42.60	54.00	-11.40	37.77	4.83	Average	100	37
6		19455.00	55.51	74.00	-18.49	50.68	4.83	Peak	100	37
7		25940.00	47.52	68.20	-20.68	35.72	11.80	Average	100	48
8		25940.00	58.55	88.20	-29.65	46.75	11.80	Peak	100	48

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

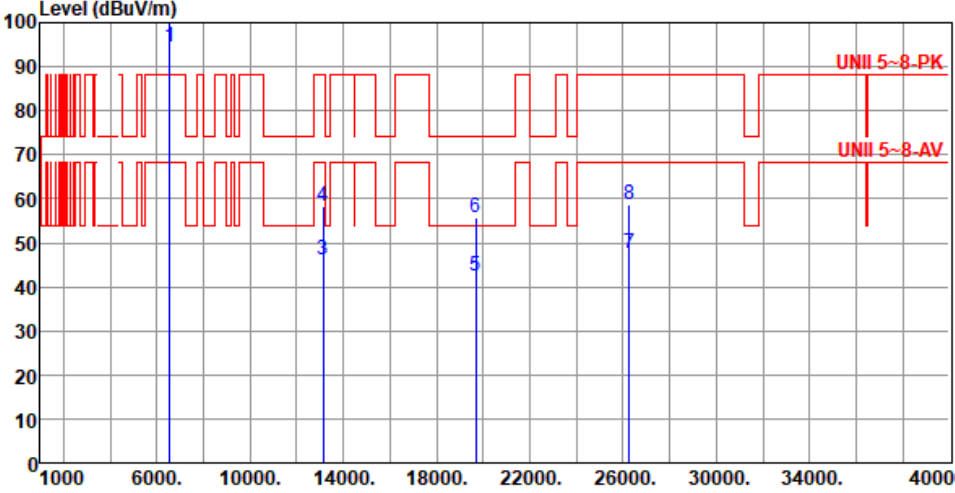


Modulation		ax HE40		Test Freq. (MHz)		6525			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67			
Level (dBuV/m) <									

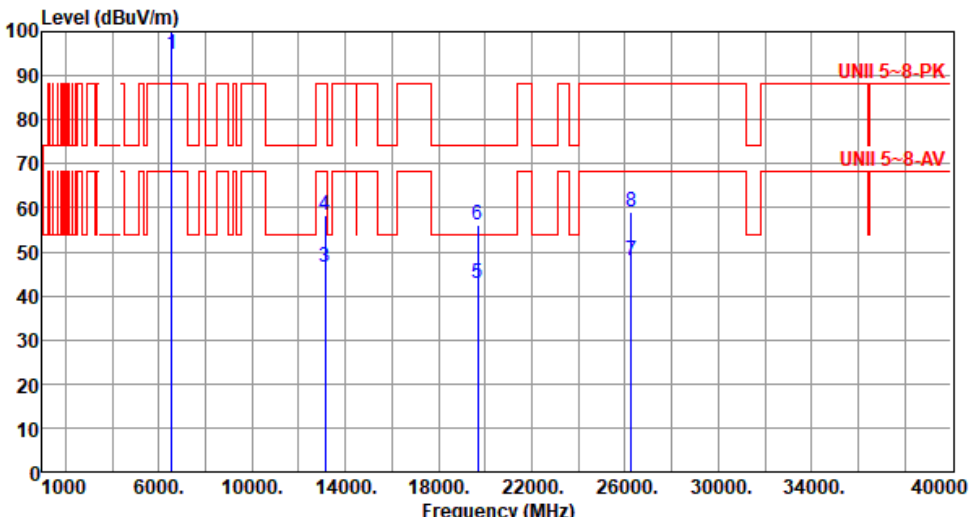


Modulation		ax HE40			Test Freq. (MHz)		6525			
Polarization		Vertical								
Test By		:Brad Wu			Temperature(°C):24		Humidity(%):67			
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Modulation	ax HE40		Test Freq. (MHz)		6565																																																																																																																														
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Modulation		ax HE40		Test Freq. (MHz)		6725			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67			
Level (dBuV/m)									



Modulation		ax HE40		Test Freq. (MHz)		6725			
Polarization		Vertical							
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67			
Level (dBUV/m) <									



Modulation	ax HE40		Test Freq. (MHz)		6845																																																																																																																														
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9		28340.00	45.42	68.20 -22.78	31.88	13.54	Average	294	58																																																																																																																																			
10		28340.00	58.47	88.20 -29.73	44.93	13.54	Peak	294	58																																																																																																																																			
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																																																																																																																																												

Unwanted Emissions (Above 1GHz) for ax HE80

Modulation	ax HE80	Test Freq. (MHz)	5985
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):67			
Level (dBuV/m)			



Modulation	ax HE80		Test Freq. (MHz)		5985																																																																																																																		
Polarization	Vertical																																																																																																																						
Test By :Brad Wu			Temperature(°C):24			Humidity(%):67																																																																																																																	
Level (dBuV/m) 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></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5925.00</td><td>50.44</td><td>68.20</td><td>-17.76</td><td>43.41</td><td>7.03</td><td>Average</td><td>206</td><td>8</td></tr><tr><td>2</td><td>5925.00</td><td>64.02</td><td>88.20</td><td>-24.18</td><td>56.99</td><td>7.03</td><td>Peak</td><td>206</td><td>8</td></tr><tr><td>3 *</td><td>5985.00</td><td>95.75</td><td></td><td></td><td>88.59</td><td>7.16</td><td>Average</td><td>206</td><td>8</td></tr><tr><td>4 *</td><td>5985.00</td><td>109.31</td><td></td><td></td><td>102.15</td><td>7.16</td><td>Peak</td><td>206</td><td>8</td></tr><tr><td>5</td><td>11970.00</td><td>46.40</td><td>54.00</td><td>-7.60</td><td>31.79</td><td>14.61</td><td>Average</td><td>102</td><td>25</td></tr><tr><td>6</td><td>11970.00</td><td>57.54</td><td>74.00</td><td>-16.46</td><td>42.93</td><td>14.61</td><td>Peak</td><td>102</td><td>25</td></tr><tr><td>7</td><td>23940.00</td><td>52.46</td><td>54.00</td><td>-1.54</td><td>42.47</td><td>9.99</td><td>Average</td><td>308</td><td>40</td></tr><tr><td>8</td><td>23940.00</td><td>59.97</td><td>74.00</td><td>-14.03</td><td>49.98</td><td>9.99</td><td>Peak</td><td>308</td><td>40</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	5925.00	50.44	68.20	-17.76	43.41	7.03	Average	206	8	2	5925.00	64.02	88.20	-24.18	56.99	7.03	Peak	206	8	3 *	5985.00	95.75			88.59	7.16	Average	206	8	4 *	5985.00	109.31			102.15	7.16	Peak	206	8	5	11970.00	46.40	54.00	-7.60	31.79	14.61	Average	102	25	6	11970.00	57.54	74.00	-16.46	42.93	14.61	Peak	102	25	7	23940.00	52.46	54.00	-1.54	42.47	9.99	Average	308	40	8	23940.00	59.97	74.00	-14.03	49.98	9.99	Peak	308	40
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																														
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																														
					dBuV			cm	deg																																																																																																														
1	5925.00	50.44	68.20	-17.76	43.41	7.03	Average	206	8																																																																																																														
2	5925.00	64.02	88.20	-24.18	56.99	7.03	Peak	206	8																																																																																																														
3 *	5985.00	95.75			88.59	7.16	Average	206	8																																																																																																														
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5	11970.00	46.40	54.00	-7.60	31.79	14.61	Average	102	25																																																																																																														
6	11970.00	57.54	74.00	-16.46	42.93	14.61	Peak	102	25																																																																																																														
7	23940.00	52.46	54.00	-1.54	42.47	9.99	Average	308	40																																																																																																														
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Modulation	ax HE80	Test Freq. (MHz)	6145																																																																																																																									
Polarization	Horizontal																																																																																																																											
Test By :Brad Wu Temperature(°C):25 Humidity(%):65																																																																																																																												
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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Modulation	ax HE80	Test Freq. (MHz)	6145						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):25 Humidity(%):65									
Level (dBUV/m) Frequency (MHz)									
	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	*	6145.00	95.62		88.27	7.35	Average	205	11
2	*	6145.00	109.25		101.90	7.35	Peak	205	11
3		12130.00	46.49	54.00	-7.51	31.45	Average	100	38
4		12130.00	57.61	74.00	-16.39	42.57	Peak	100	38
5		19245.00	41.62	54.00	-12.38	36.77	Average	100	52
6		19245.00	55.59	74.00	-18.41	50.74	Peak	100	52
7		24580.00	50.72	68.20	-17.48	39.67	Average	322	39
8		24580.00	58.93	88.20	-29.27	47.88	Peak	322	39

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 HE80		Test Freq. (MHz)		6385																																																																																																																														
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Test By :Brad Wu Temperature(°C):25 Humidity(%):65																																																																																																																																			
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																									
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Modulation		ax HE80		Test Freq. (MHz)		6385																																																																																																																												
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Test By		:Brad Wu		Temperature(°C):25		Humidity(%):65																																																																																																																												
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																								
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6		19155.00	55.19	74.00	-18.81	50.28	4.91	Peak	110	66																																																																																																																								
7		25540.00	47.65	68.20	-20.55	35.96	11.69	Average	312	29																																																																																																																								
8		25540.00	59.26	88.20	-28.94	47.57	11.69	Peak	312	29																																																																																																																								



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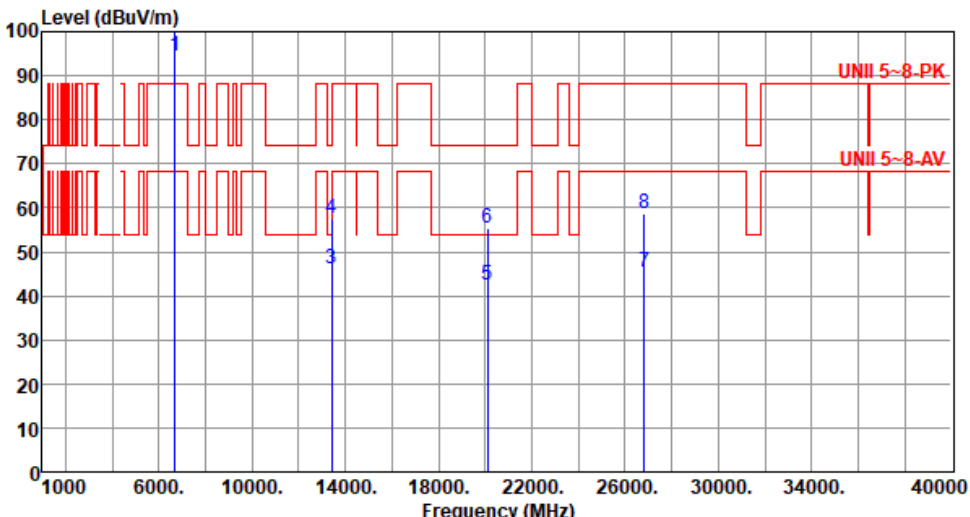


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Modulation		ax HE80		Test Freq. (MHz)		6625			
Polarization		Vertical							
Test By		:Brad Wu		Temperature(°C):25		Humidity(%):65			
Level (dBuV/m) <									



Modulation		ax HE80		Test Freq. (MHz)		6705																																																																																																																												
Polarization		Horizontal																																																																																																																																
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67																																																																																																																												
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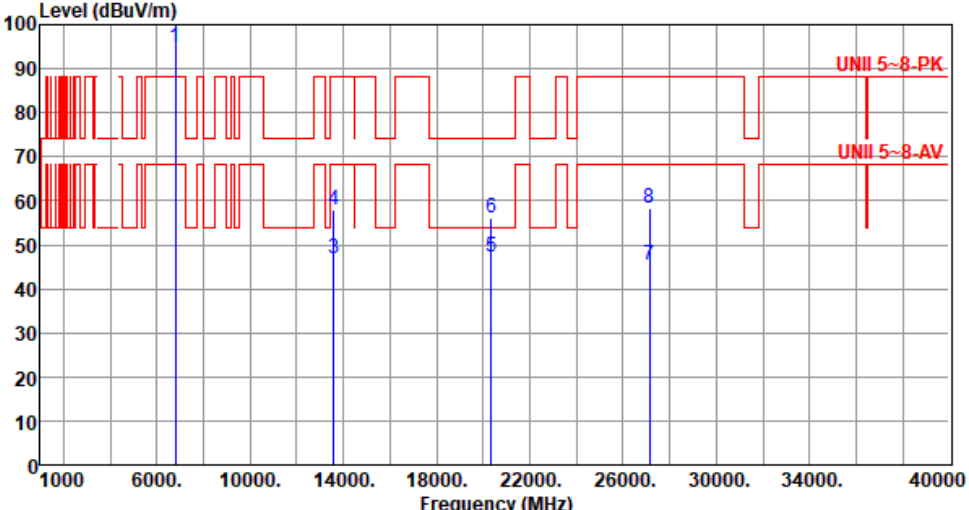


Modulation	ax HE80	Test Freq. (MHz)	6705																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																																																																	
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Modulation		ax HE80		Test Freq. (MHz)		6785	
Polarization		Horizontal					
Test By		:Brad Wu		Temperature(°C):25		Humidity(%):65	
Level (dBUV/m) </							



Modulation	ax HE80		Test Freq. (MHz)		6785				
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):25 Humidity(%):65									
									
	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 *	6785.00	94.86			86.09	8.77	Average	214	45
2 *	6785.00	108.12			99.35	8.77	Peak	214	45
3	13570.00	46.81	68.20	-21.39	29.96	16.85	Average	100	72
4	13570.00	57.96	88.20	-30.24	41.11	16.85	Peak	100	72
5	20355.00	47.28	54.00	-6.72	41.18	6.10	Average	100	51
6	20355.00	56.14	74.00	-17.86	50.04	6.10	Peak	100	51
7	27140.00	45.42	68.20	-22.78	32.56	12.86	Average	100	66
8	27140.00	58.41	88.20	-29.79	45.55	12.86	Peak	100	66

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 HE80	Test Freq. (MHz)	6865																																																																																																														
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	ax HE80	Test Freq. (MHz)	6865																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Brad Wu Temperature(°C):25 Humidity(%):65																																																																																																																	
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Modulation	ax HE80	Test Freq. (MHz)	6945																																																																																																														
Polarization	Horizontal																																																																																																																
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Modulation	ax HE80	Test Freq. (MHz)	6945						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):25 Humidity(%):65									
	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 *	6945.00	95.81			86.21	9.60	Average	215	42
2 *	6945.00	108.32	-----	-----	98.72	9.60	Peak	215	42
3	13890.00	46.81	68.20	-21.39	29.51	17.30	Average	101	53
4	13890.00	57.96	88.20	-30.24	40.66	17.30	Peak	101	53
5	20835.00	42.35	54.00	-11.65	35.83	6.52	Average	100	77
6	20835.00	56.16	74.00	-17.84	49.64	6.52	Peak	100	77
7	27780.00	45.44	68.20	-22.76	32.36	13.08	Average	295	61
8	27780.00	58.49	88.20	-29.71	45.41	13.08	Peak	295	61

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

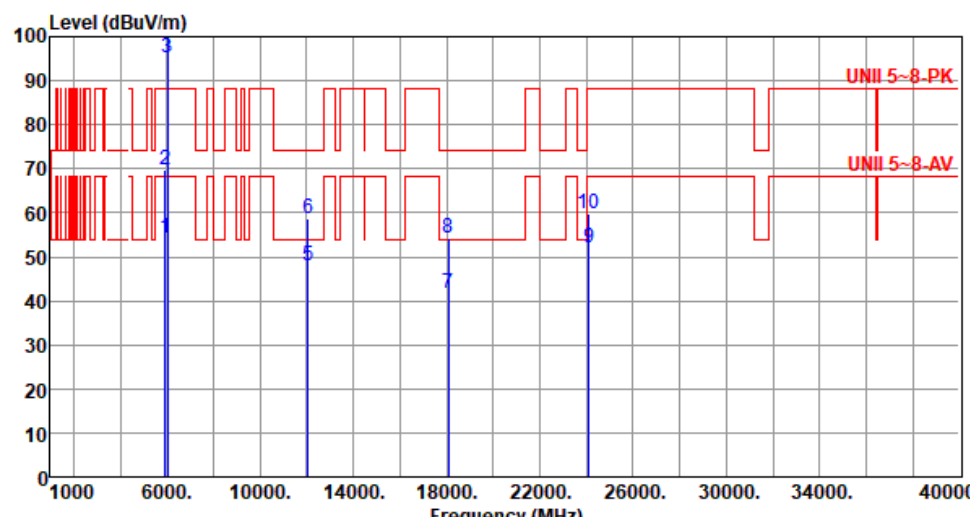


Modulation		ax HE80		Test Freq. (MHz)		7025																																																																																																																																																			
Polarization		Horizontal																																																																																																																																																							
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):67																																																																																																																																																			
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Modulation		ax HE80			Test Freq. (MHz)		7025			
Polarization		Vertical								
Test By		:Brad Wu			Temperature(°C):24		Humidity(%):67			
Level (dBUV/m) </										

Unwanted Emissions (Above 1GHz) for ax HE160

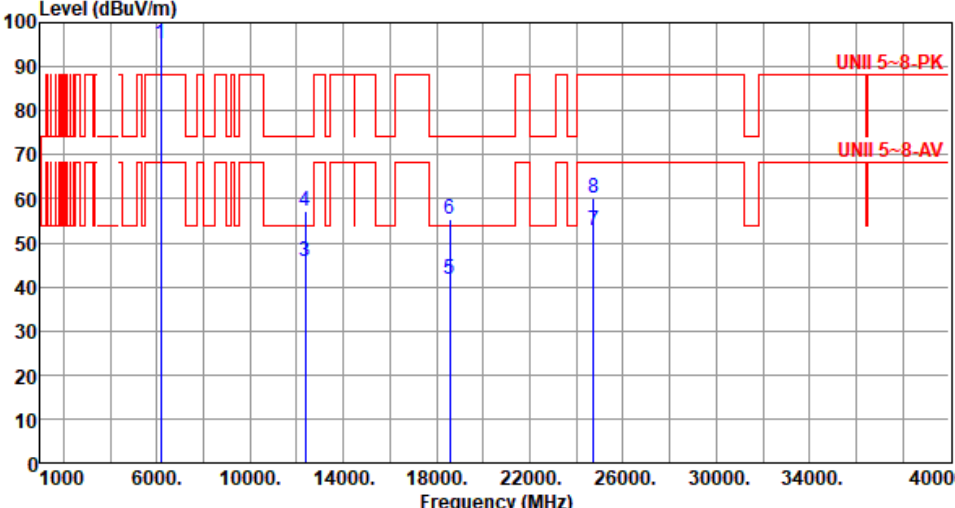
Modulation	ax HE160	Test Freq. (MHz)	6025						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):67									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5925.00	54.31	68.20	-13.89	47.28	7.03	Average	179	15
2	5925.00	69.58	88.20	-18.62	62.55	7.03	Peak	179	15
3 *	6025.00	95.15			87.92	7.23	Average	179	15
4 *	6025.00	108.02			100.79	7.23	Peak	179	15
5	12050.00	47.80	54.00	-6.20	32.89	14.91	Average	100	12
6	12050.00	58.53	74.00	-15.47	43.62	14.91	Peak	100	12
7	18075.00	41.60	54.00	-12.40	38.48	3.12	Average	100	45
8	18075.00	54.08	74.00	-19.92	50.96	3.12	Peak	100	45
9	24100.00	51.96	68.20	-16.24	41.66	10.30	Average	181	225
10	24100.00	59.88	88.20	-28.32	49.58	10.30	Peak	181	225

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

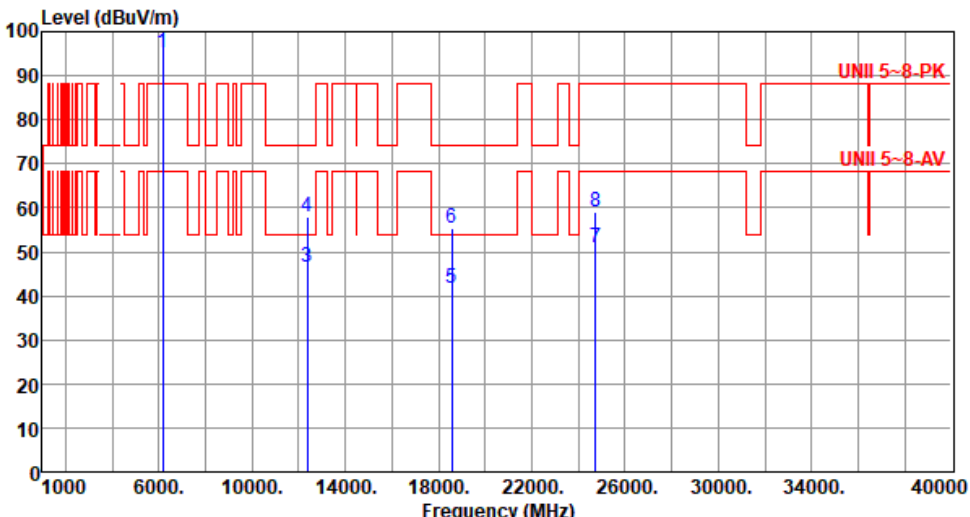


Modulation	ax HE160	Test Freq. (MHz)	6025
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):67			
Level (dBUV/m) <			



Modulation	ax HE160	Test Freq. (MHz)	6185																																																																																										
Polarization	Horizontal																																																																																												
Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																																													
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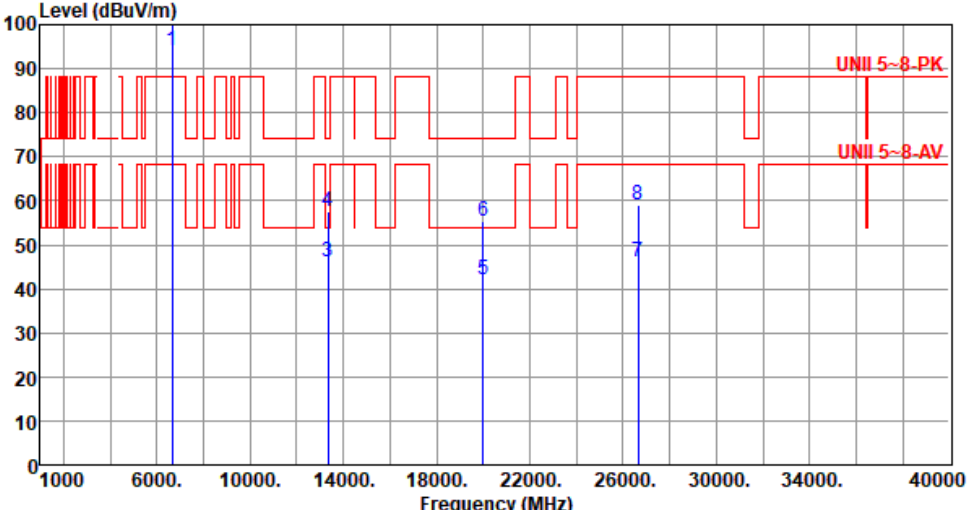


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Level (dBUV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBUV/m</th><th>dB</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></thead><tbody><tr><td>1 *</td><td>6505.00</td><td>94.23</td><td></td><td></td><td>85.49</td><td>8.74</td><td>Average</td><td>181</td><td>12</td></tr><tr><td>2 *</td><td>6505.00</td><td>107.21</td><td></td><td></td><td>98.47</td><td>8.74</td><td>Peak</td><td>181</td><td>12</td></tr><tr><td>3</td><td>13010.00</td><td>46.24</td><td>68.20</td><td>-21.96</td><td>30.68</td><td>15.56</td><td>Average</td><td>108</td><td>66</td></tr><tr><td>4</td><td>13010.00</td><td>57.61</td><td>88.20</td><td>-30.59</td><td>42.05</td><td>15.56</td><td>Peak</td><td>108</td><td>66</td></tr><tr><td>5</td><td>19515.00</td><td>42.13</td><td>54.00</td><td>-11.87</td><td>37.27</td><td>4.86</td><td>Average</td><td>100</td><td>47</td></tr><tr><td>6</td><td>19515.00</td><td>55.26</td><td>74.00</td><td>-18.74</td><td>50.40</td><td>4.86</td><td>Peak</td><td>100</td><td>47</td></tr><tr><td>7</td><td>26020.00</td><td>46.77</td><td>68.20</td><td>-21.43</td><td>34.86</td><td>11.91</td><td>Average</td><td>201</td><td>244</td></tr><tr><td>8</td><td>26020.00</td><td>58.52</td><td>88.20</td><td>-29.68</td><td>46.61</td><td>11.91</td><td>Peak</td><td>201</td><td>244</td></tr></tbody></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 *	6505.00	94.23			85.49	8.74	Average	181	12	2 *	6505.00	107.21			98.47	8.74	Peak	181	12	3	13010.00	46.24	68.20	-21.96	30.68	15.56	Average	108	66	4	13010.00	57.61	88.20	-30.59	42.05	15.56	Peak	108	66	5	19515.00	42.13	54.00	-11.87	37.27	4.86	Average	100	47	6	19515.00	55.26	74.00	-18.74	50.40	4.86	Peak	100	47	7	26020.00	46.77	68.20	-21.43	34.86	11.91	Average	201	244	8	26020.00	58.52	88.20	-29.68	46.61	11.91	Peak	201	244
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Modulation	ax HE160	Test Freq. (MHz)	6505																																																																																																														
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Test By :Brad Wu Temperature(°C):24 Humidity(%):67																																																																																																																	
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Modulation	ax HE160		Test Freq. (MHz)		6665																																																																																																				
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Test By		:Brad Wu			Temperature(°C):24		Humidity(%):67																																																																																																																												
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Modulation		ax HE160			Test Freq. (MHz)		6825																																																																																																																												
Polarization		Horizontal																																																																																																																																	
Test By		:Brad Wu			Temperature(°C):24		Humidity(%):67																																																																																																																												
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><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></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>6825.00</td><td>93.75</td><td></td><td></td><td>84.79</td><td>8.96</td><td>Average</td><td>179</td><td>17</td></tr><tr><td>2</td><td>*</td><td>6825.00</td><td>106.92</td><td>-----</td><td>-----</td><td>97.96</td><td>8.96</td><td>Peak</td><td>179</td><td>17</td></tr><tr><td>3</td><td></td><td>13650.00</td><td>46.14</td><td>68.20</td><td>-22.06</td><td>29.23</td><td>16.91</td><td>Average</td><td>105</td><td>26</td></tr><tr><td>4</td><td></td><td>13650.00</td><td>57.68</td><td>88.20</td><td>-30.52</td><td>40.77</td><td>16.91</td><td>Peak</td><td>105</td><td>26</td></tr><tr><td>5</td><td></td><td>20475.00</td><td>42.86</td><td>54.00</td><td>-11.14</td><td>36.42</td><td>6.44</td><td>Average</td><td>100</td><td>33</td></tr><tr><td>6</td><td></td><td>20475.00</td><td>55.58</td><td>74.00</td><td>-18.42</td><td>49.14</td><td>6.44</td><td>Peak</td><td>100</td><td>33</td></tr><tr><td>7</td><td></td><td>27300.00</td><td>44.98</td><td>68.20</td><td>-23.22</td><td>31.92</td><td>13.06</td><td>Average</td><td>195</td><td>221</td></tr><tr><td>8</td><td></td><td>27300.00</td><td>58.86</td><td>88.20</td><td>-29.34</td><td>45.80</td><td>13.06</td><td>Peak</td><td>195</td><td>221</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.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn			MHz	level			reading			High	Table				dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	*	6825.00	93.75			84.79	8.96	Average	179	17	2	*	6825.00	106.92	-----	-----	97.96	8.96	Peak	179	17	3		13650.00	46.14	68.20	-22.06	29.23	16.91	Average	105	26	4		13650.00	57.68	88.20	-30.52	40.77	16.91	Peak	105	26	5		20475.00	42.86	54.00	-11.14	36.42	6.44	Average	100	33	6		20475.00	55.58	74.00	-18.42	49.14	6.44	Peak	100	33	7		27300.00	44.98	68.20	-23.22	31.92	13.06	Average	195	221	8		27300.00	58.86	88.20	-29.34	45.80	13.06	Peak	195	221
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