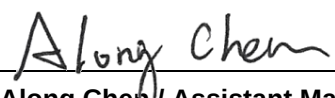


FCC Test Report

FCC ID : I88WX5610-B0
Equipment : AX7800 WiFi 6E Tri-Band Gigabit Wireless Extender
Model No. : WX5610-B0
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan
Standard : 47 CFR FCC Part 15.407
Equipment Class / Type : ☒ 6ID: Indoor access point
☒ 6PP: Subordinate device
☐ 6XD: Client device
Received Date : Dec. 26, 2022
Tested Date : Feb. 03 ~ Feb. 24, 2023

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

Reviewed by:


Along Chen / Assistant Manager

Approved by:

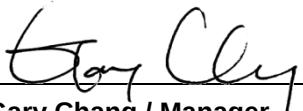

Gary Chang / Manager

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Appendix H. AC Power Line Conducted Emissions		

Release Record

Report No.	Version	Description	Issued Date
FR2D2801AO	Rev. 01	Initial issue	Mar. 22, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 4.672MHz 43.00 (Margin -13.00dB) - QP	Pass
15.407(b)(5) 15.209	Unwanted Emission	[dBuV/m at 3m]: 48.43MHz 31.40 (Margin -8.60dB) - QP	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 5925-6425MHz: 22.02 6425-6525MHz: 22.28 6525-6875MHz: 22.10 6875-7125MHz: 21.40 Beamforming mode 5925-6425MHz: 23.63 6425-6525MHz: 23.63 6525-6875MHz: 23.32 6875-7125MHz: 22.95	Pass
15.407(a)(5)	Power Spectral Density (e.i.r.p)	Meet the requirement of limit	Pass
15.407(d)(6)	Contention Based Protocol	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5925 ~ 7125	11a	6115 ~ 7095	33 ~ 229 [50]	4	MCS 0-11
5925 ~ 7125	ax (HE20)	6115 ~ 7095	33 ~ 229 [50]	4	MCS 0-11
5925 ~ 7125	ax (HE40)	6125 ~ 7085	35 ~ 227 [25]	4	MCS 0-11
5925 ~ 7125	ax (HE80)	6145 ~ 7025	39 ~ 215 [12]	4	MCS 0-11
5925 ~ 7125	ax (HE160)	6185 ~ 6985	47 ~ 207 [6]	4	MCS 0-11
Note 1: BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					
Note 2: 802.11ax supports beamforming function.					

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Gain (dBi)			
					5925~6425	6425~6525	6525~6875	6875~7125
5	Airgain	N06MSAME-PK1-E165U (Ant6_6G)	Dipole	ipex	4.9	4.0	4.7	5.3
6	Airgain	N06MSAMF-PK1-R175U (Ant7_6G)	Dipole	ipex	5.1	4.9	5.2	4.4
7	Airgain	N06MSAMG-PK1-Y190U (Ant8_6G)	Dipole	ipex	5.5	5.6	5.6	5.0
8	Airgain	N06MSAMH-PK1-P185U (Ant9_6G)	Dipole	ipex	5.9	5.9	5.7	5.8

1.1.3 Power Supply Type of Equipment under Test (EUT)

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

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: DVE Model: DSA-36PFN-12 FUS 120300 I/P: 100-240V~ 50-60Hz 1.0A O/P: 12.0V=3.0A, 36.0W Power Line: 1.5m non-shielded without core
2	Ethernet Cable	1.8m non-shielded without core

1.1.5 Channel List

a / ax HE20							
UNII 5		UNII 6		UNII 7		UNII 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
33	6115	97	6435	117	6535	189	6895
37	6135	101	6455	121	6555	193	6915
41	6155	105	6475	125	6575	197	6935
45	6175	109	6495	129	6595	201	6955
49	6195	113	6515	133	6615	205	6975
53	6215	--	--	137	6635	209	6995
57	6235	--	--	141	6655	213	7015
61	6255	--	--	145	6675	217	7035
65	6275	--	--	149	6695	221	7055
69	6295	--	--	153	6715	225	7075
73	6315	--	--	157	6735	229	7095
77	6335	--	--	161	6755	--	--
81	6355	--	--	165	6775	--	--
85	6375	--	--	169	6795	--	--
89	6395	--	--	173	6815	--	--
93	6415	--	--	177	6835	--	--
--	--	--	--	181	6855	--	--
--	--	--	--	185	6875	--	--

ax HE40							
UNII 5		UNII 6		UNII 7		UNII 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
35	6125	99	6445	123	6565	187	6885
43	6165	107	6485	131	6605	195	6925
51	6205	115	6525	139	6645	203	6965
59	6245	---	---	147	6685	211	7005
67	6285	---	---	155	6725	219	7045
75	6325	---	---	163	6765	227	7085
83	6365	---	---	171	6805	---	---
91	6405	---	---	179	6845	---	---

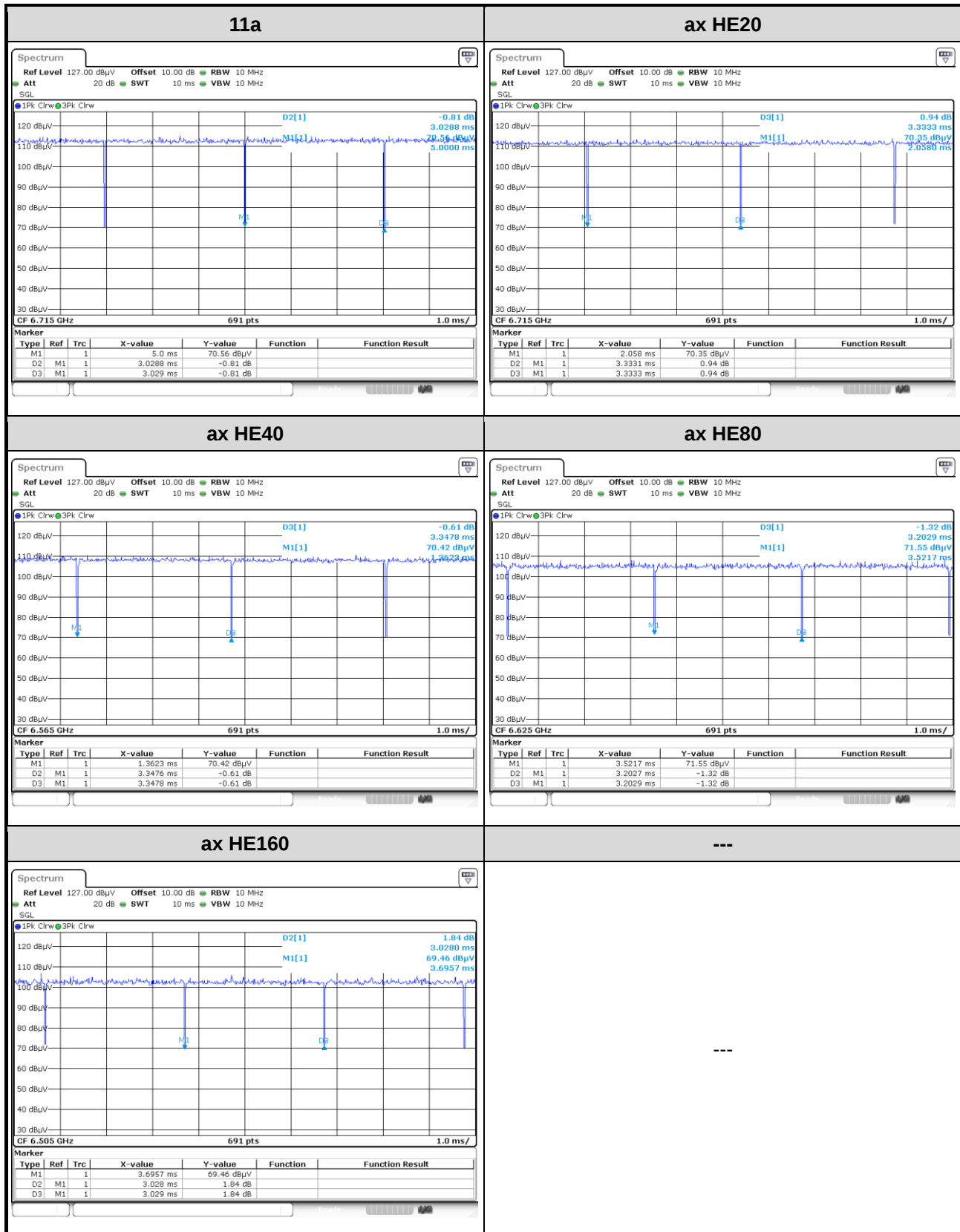
ax HE80							
UNII 5		UNII 6		UNII 7		UNII 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
39	6145	103	6465	119	6545	199	6945
55	6225	---	---	135	6625	215	7025
71	6305	---	---	151	6705	---	---
87	6385	---	---	167	6785	---	---
---	---	---	---	183	6865	---	---

ax HE160							
UNII 5		UNII 6		UNII 7		UNII 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
47	6185	111	6505	143	6665	207	6985
79	6345	---	---	175	6825	---	---

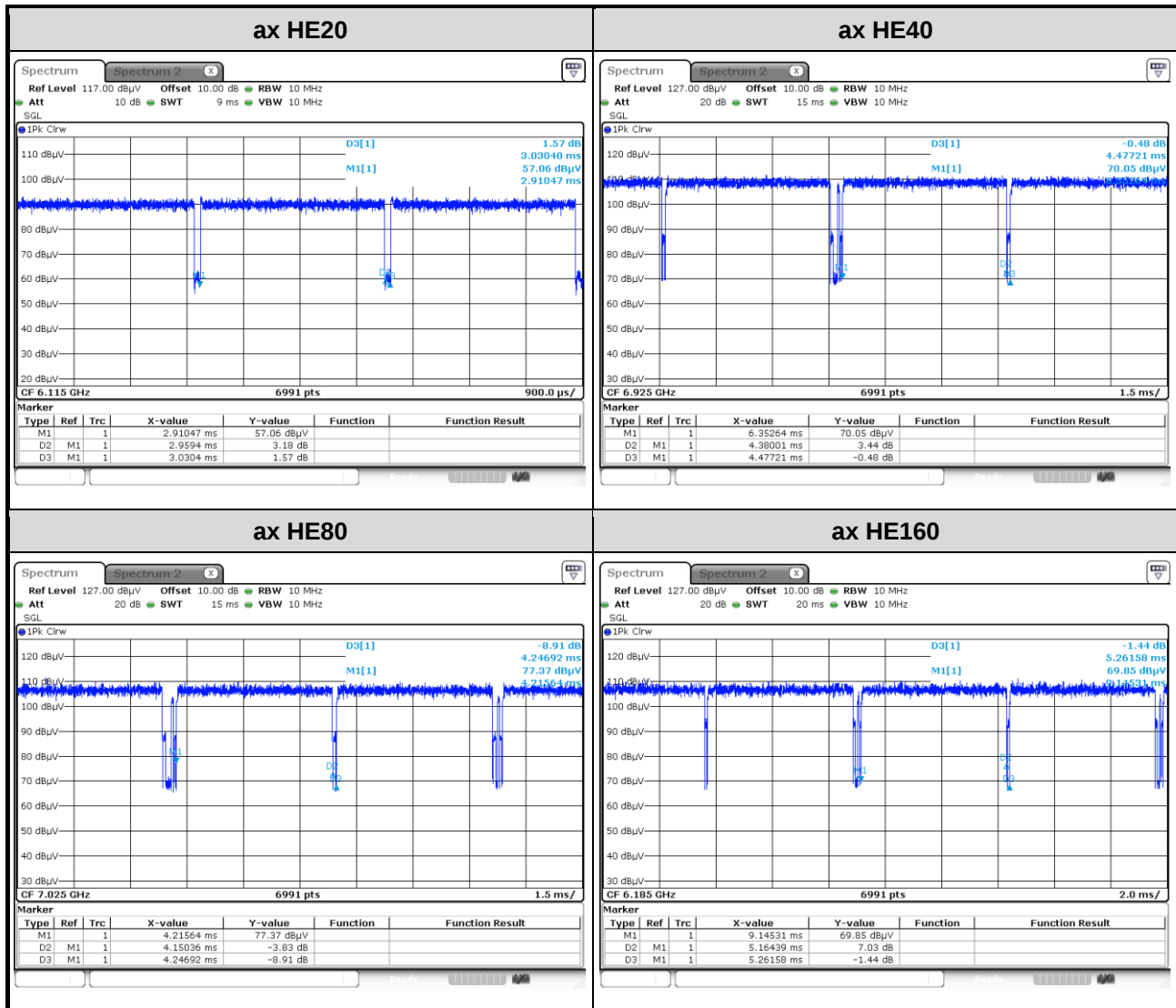
1.1.6 Test Tool and Duty Cycle

Test Tool	accessMtool, version: 3.2.1.5				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	99.99%	0.00	---	---
	ax HE20	99.99%	0.00	97.66%	0.10
	ax HE40	99.99%	0.00	97.83%	0.10
	ax HE80	99.99%	0.00	97.73%	0.10
	ax HE160	99.97%	0.00	98.15%	0.08

Non-beamforming mode



Beamforming mode

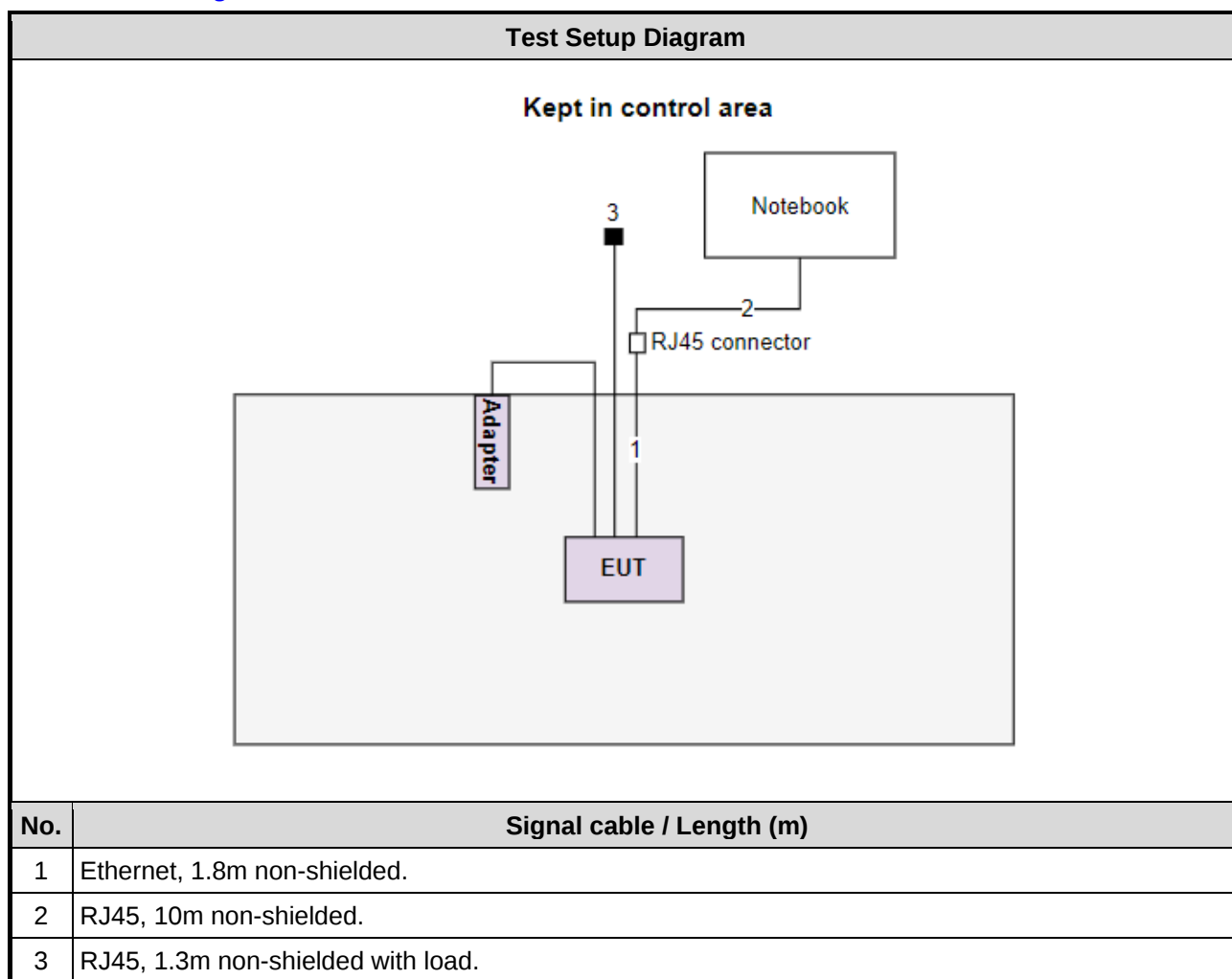


1.2 Local Support Equipment List

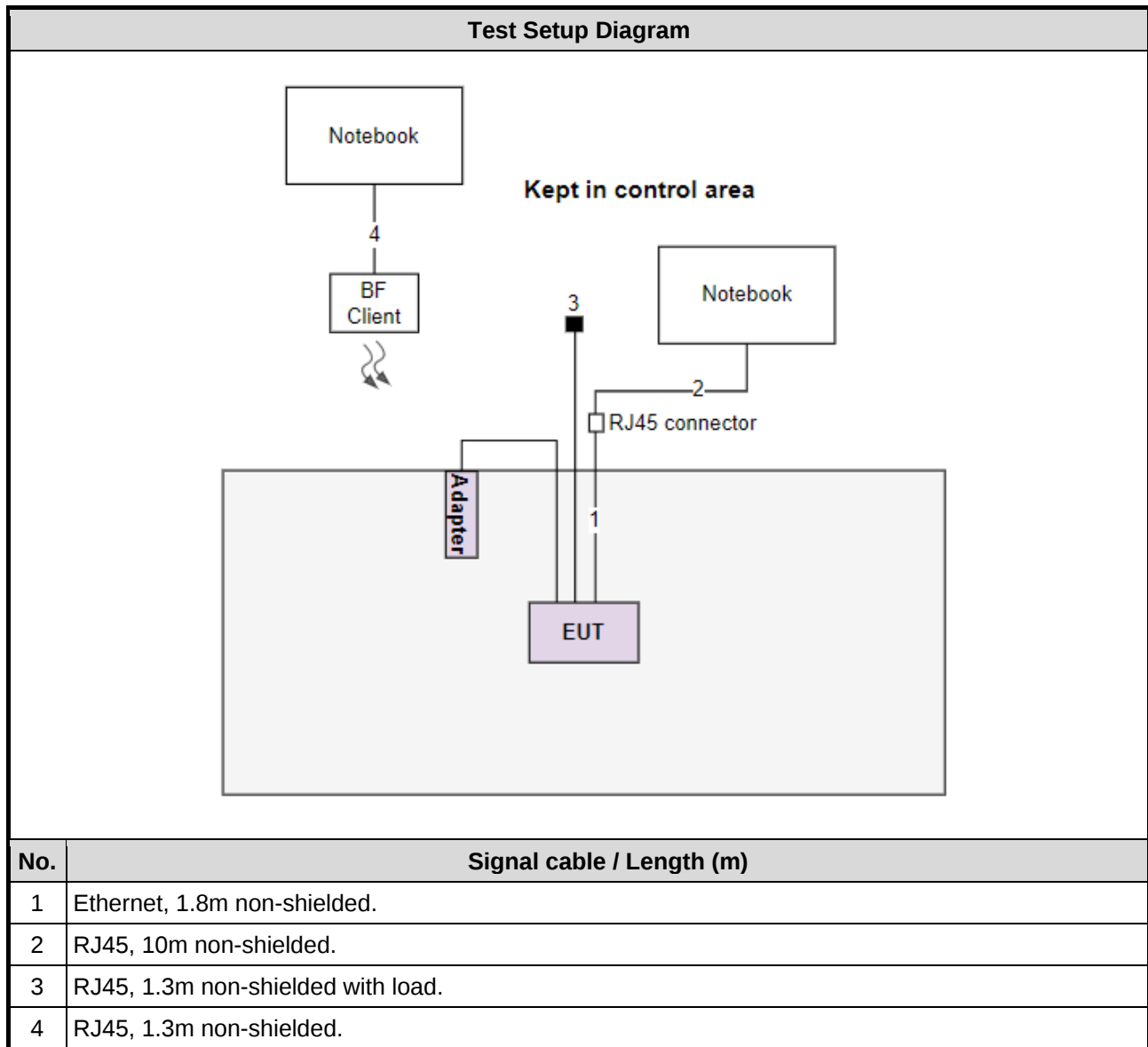
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Load	ICC	---	---	---
3	Notebook	DELL	Latitude E5400	DoC	For Beamforming mode only.
4	BF Client	ASUS	ET8	---	For Beamforming mode only. (Provided by applicant.)

1.3 Test Setup Chart

Non-beamforming mode



Beamforming mode



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Feb. 15, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 02, 2023	Jan. 01, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
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	Feb. 03 ~ Feb. 20, 2023				
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. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 15, 2022	Dec. 14, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980897	Aug. 01, 2022	Jul. 31, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 23, 2022	Sep. 22, 2023
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 23, 2022	Sep. 22, 2023
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 23, 2022	Sep. 22, 2023
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 23, 2022	Sep. 22, 2023
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 23, 2022	Sep. 22, 2023
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	Feb. 21 ~ Feb. 24, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 08, 2022	Apr. 07, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 22, 2022	Jun. 21, 2023
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 09, 2022	Dec. 08, 2023
Measurement Software	Sporton	SENSE-15407_NII	V5.10.8.9	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Contention Based Protocol				
Test Site	(TH01-WS)				
Tested Date	Feb. 07 ~ Feb. 08, 2023				
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. 26, 2022	Jul. 25, 2023
Splitter	woken	0120A02201801O	DOM2AEW1A23	Oct. 13, 2022	Oct. 12, 2023
Directional Coupler	KRYTAR	180120	146890	Oct. 14, 2022	Oct. 13, 2023
RF Cable	WOKEN	woken-S05	S05-141231-110	Aug. 31, 2022	Aug. 30, 2023
RF Cable	EMC	EMC105SFF-SM-SM-2000	210816	Aug. 31, 2022	Aug. 30, 2023
RF Cable	EMC	EMC104-SM-SM-8000	181106	Aug. 31, 2022	Aug. 30, 2023
Attenuator	woken	PE7013-10	10-1	Oct. 14, 2022	Oct. 13, 2023
Attenuator	woken	PE7013-20	20-1	Oct. 14, 2022	Oct. 13, 2023
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 33381, 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 33381, 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	6505	MCS 0	---
Unwanted Emissions ≤1GHz	ax HE160	6505	MCS 0	---
Unwanted Emissions >1GHz RF Output Power Emission Bandwidth Power Spectral Density	11a	6115 / 6255 / 6415 / 6435 / 6475 / 6515 / 6535 / 6715 / 6855 / 6875 / 6895 / 7015 / 7095	MCS 0	
	ax HE20	6115 / 6255 / 6415 / 6435 / 6475 / 6515 / 6535 / 6715 / 6855 / 6875 / 6895 / 7015 / 7095	MCS 0	---
	ax HE40	6125 / 6245 / 6405 / 6445 / 6485 / 6525 / 6565 / 6725 / 6845 / 6885 / 6925 / 7005 / 7085	MCS 0	---
	ax HE80	6145 / 6225 / 6385 / 6465 / 6545 / 6625 / 6705 / 6785 / 6865 / 6945 / 7025	MCS 0	---
	ax HE160	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	---	---
Beamforming mode				
RF Output Power Power Spectral Density	ax HE20	6115 / 6255 / 6415 / 6435 / 6475 / 6515 / 6535 / 6715 / 6855 / 6875 / 6895 / 7015 / 7095	MCS 0	
	ax HE40	6125 / 6245 / 6405 / 6445 / 6485 / 6525 / 6565 / 6725 / 6845 / 6885 / 6925 / 7005 / 7085	MCS 0	---
	ax HE80	6145 / 6225 / 6385 / 6465 / 6545 / 6625 / 6705 / 6785 / 6865 / 6945 / 7025	MCS 0	---
	ax HE160	6185 / 6345 / 6505 / 6665 / 6825 / 6985	MCS 0	---
NOTE:				
- 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. - For radiated emission test, non-beamforming and beamforming mode had been covered during the pretest. The worst mode was found at non-beamforming mode, thus the test results came out from this. - CDD mode and beamforming had been investigated and found CDD mode is worst case thus all test items are performed under CDD mode and only EIRP and PSD test items for beamforming. - Test items and limit is same for 6ID and 6PP thus only one test report but covers 2 categories. - Device supports MIMO transmission only.				

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

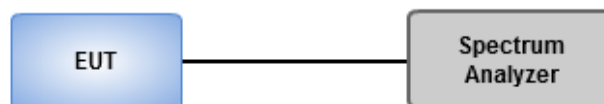
26dB Bandwidth

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	22-23°C / 63-65%	Tested By	Akun Chung
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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

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. 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.
4. Follow below formula to convert measured value to EIRP

$$\text{EIRP [dBm]} = \text{E [dBuV/m]} - 95.2$$

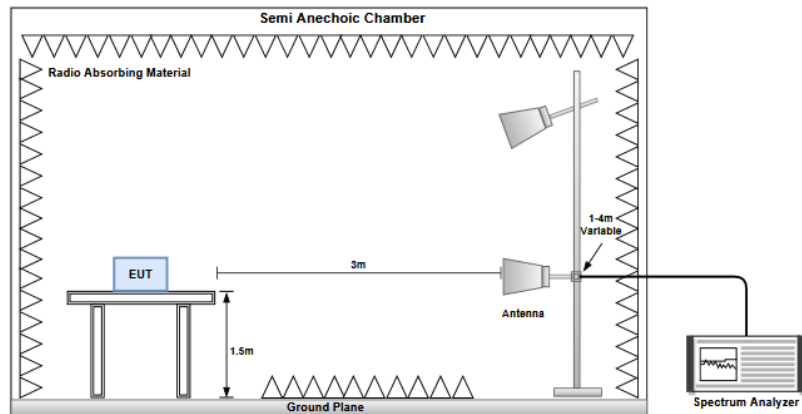
Setting of Spectrum analyser (Non-Beamforming)

1. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
2. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
3. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
4. Trace average at least 100 traces in power averaging mode.
5. Compute power by integrating the spectrum across the 26 dB EBW.

Setting of Spectrum analyser (Beamforming)

1. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
2. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
3. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
4. Trace average at least 100 traces in power averaging mode.
5. Compute power by integrating the spectrum across the 26 dB EBW.
6. Add $10 \log (1/x)$, where x is the duty cycle

3.2.3 Test Setup



3.2.4 Test Result

Ambient Condition	23-25°C / 64-66%	Tested By	Paul Lin
-------------------	------------------	-----------	----------

Refer to Appendix B.

3.3 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

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. 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.
4. Follow below formula to convert measured value to EIRP

$$\text{EIRP [dBm]} = \text{E [dBuV/m]} - 95.2$$

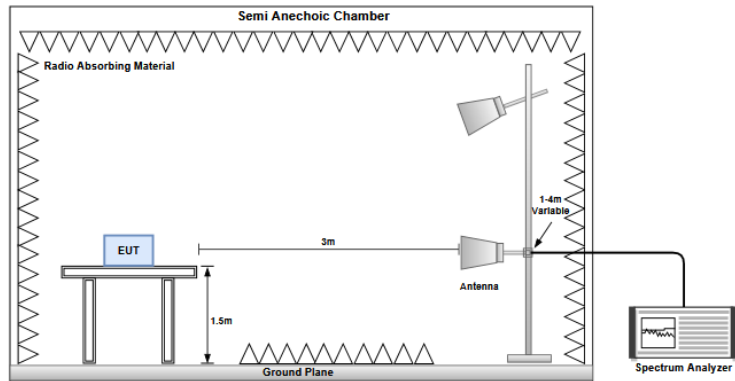
Setting of Spectrum analyser (Non-Beamforming, method SA-1)

1. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
2. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
3. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
4. Trace average at least 100 traces in power averaging mode.

Setting of Spectrum analyser (Beamforming, method SA-2)

1. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
2. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
3. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
4. Trace average at least 100 traces in power averaging mode.
6. Add $10 \log (1/x)$, where x is the duty cycle

3.3.3 Test Setup



3.3.4 Test Result

Ambient Condition	23-25°C / 64-66%	Tested By	Paul Lin
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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

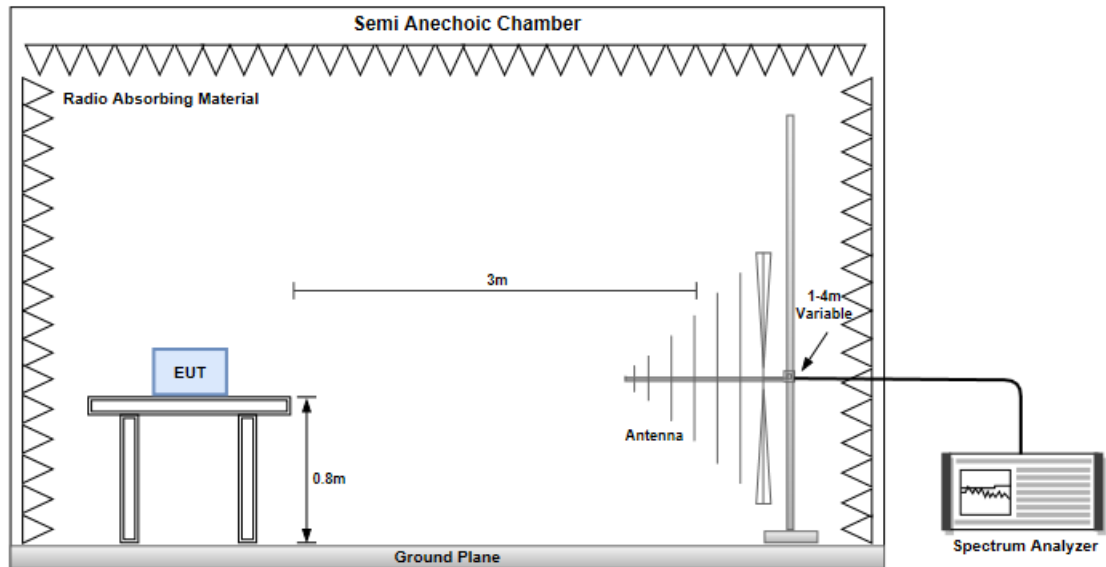
5. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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
6. 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.
7. 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:

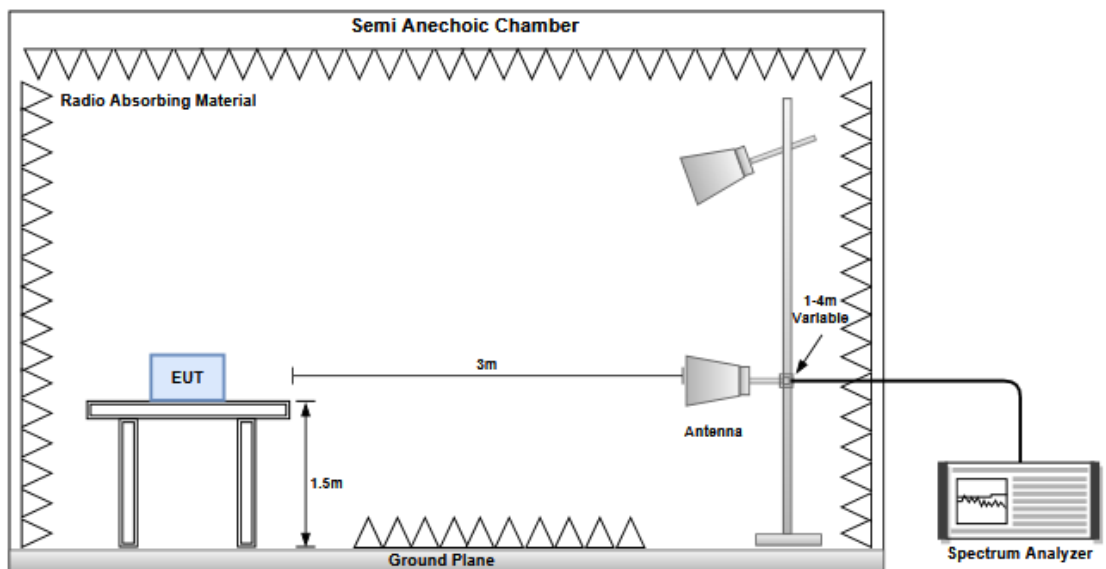
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



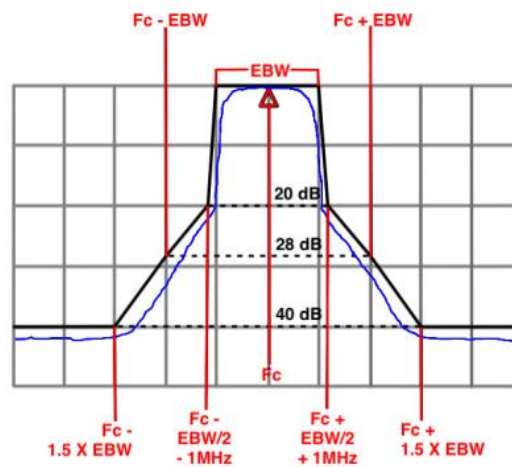
3.4.4 Test Results

Refer to Appendix D.

3.5 In-Band Emissions

3.5.1 Limit

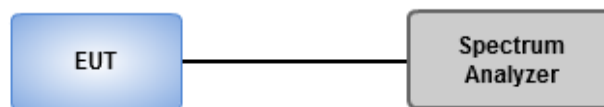
Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel 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-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	22-23°C / 63-65%	Tested By	Akun Chung
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Refer to Appendix E.

3.6 Frequency Stability

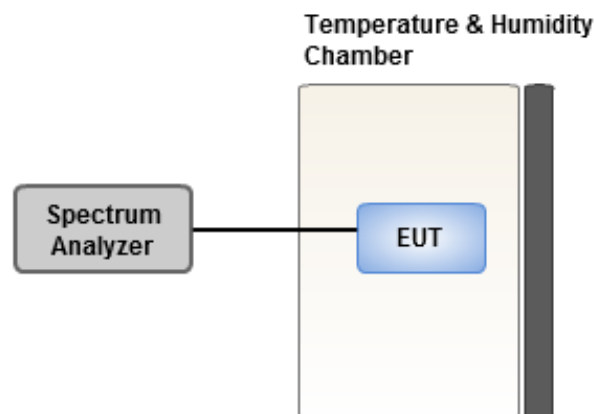
3.6.1 Limit of Frequency Stability

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	22-23°C / 63-65%	Tested By	Akun Chung
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Refer to Appendix F.

3.7 Contention Based Protocol

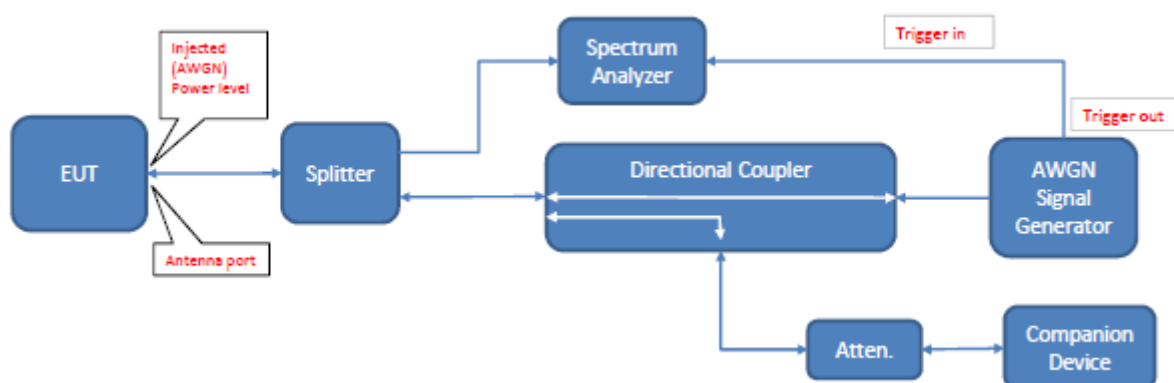
3.7.1 Limit

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	22°C / 68%	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

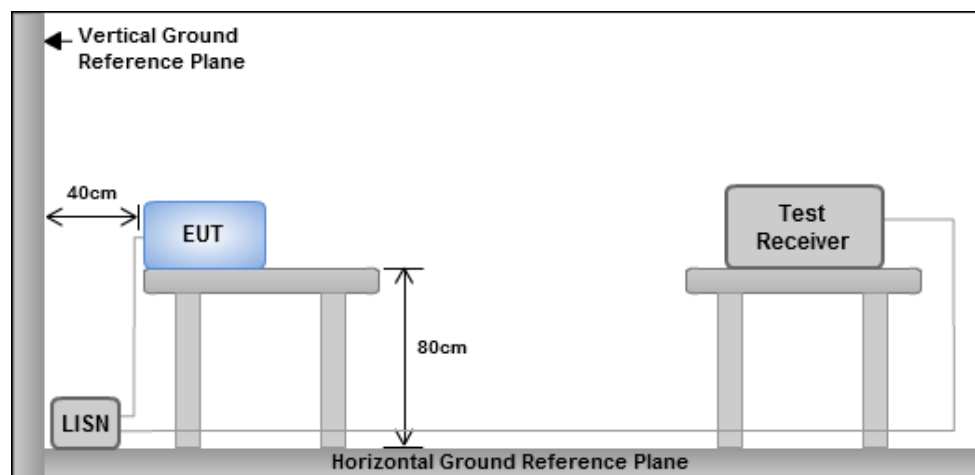
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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 33381, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.968M	17.099M	17M1D1D	21.714M	16.993M
802.11ax HEW20_Nss1,(MCS0)_4TX	25.542M	19.19M	19M2D1D	22.11M	19.1M
802.11ax HEW40_Nss1,(MCS0)_4TX	50.292M	37.901M	37M9D1D	40.788M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	86.328M	77.601M	77M6D1D	81.84M	77.361M
802.11ax HEW160_Nss1,(MCS0)_4TX	166.32M	156.642M	157MD1D	164.208M	156.162M
6.425-6.525GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.024M	17.099M	17M1D1D	21.912M	16.967M
802.11ax HEW20_Nss1,(MCS0)_4TX	24.75M	19.19M	19M2D1D	21.78M	19.13M
802.11ax HEW40_Nss1,(MCS0)_4TX	42.636M	37.901M	37M9D1D	40.92M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	85.8M	77.481M	77M5D1D	82.104M	77.361M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.4M	156.522M	157MD1D	164.2M	156.122M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.288M	17.125M	17M1D1D	21.846M	16.967M
802.11ax HEW20_Nss1,(MCS0)_4TX	24.948M	19.22M	19M2D1D	21.516M	19.16M
802.11ax HEW40_Nss1,(MCS0)_4TX	47.124M	37.961M	38M0D1D	41.184M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	85.536M	77.601M	77M6D1D	82.104M	77.361M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.792M	156.642M	157MD1D	164.208M	156.402M
6.875-7.125GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.775M	17.125M	17M1D1D	21.648M	16.967M
802.11ax HEW20_Nss1,(MCS0)_4TX	24.75M	19.19M	19M2D1D	21.846M	19.13M
802.11ax HEW40_Nss1,(MCS0)_4TX	47.256M	37.901M	37M9D1D	41.052M	37.831M
802.11ax HEW80_Nss1,(MCS0)_4TX	85.536M	77.601M	77M6D1D	82.368M	77.261M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.264M	156.522M	157MD1D	164.208M	155.682M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
6115MHz	Pass	Inf	21.846M	17.072M	22.506M	17.072M	21.912M	17.019M	22.374M	17.099M
6255MHz	Pass	Inf	21.714M	17.072M	22.968M	17.046M	22.044M	16.993M	21.912M	17.046M
6415MHz	Pass	Inf	22.77M	17.099M	22.176M	17.046M	22.11M	17.019M	22.176M	17.019M
6435MHz	Pass	Inf	22.308M	17.099M	22.836M	17.019M	24.024M	16.967M	22.308M	16.993M
6475MHz	Pass	Inf	21.912M	17.072M	22.902M	17.019M	22.044M	17.019M	22.176M	17.019M
6515MHz	Pass	Inf	23.562M	17.046M	22.176M	16.993M	21.978M	16.993M	22.968M	16.993M
6535MHz	Pass	Inf	21.978M	17.099M	22.836M	17.019M	22.44M	16.967M	21.912M	17.019M
6715MHz	Pass	Inf	22.902M	17.072M	21.978M	17.072M	22.044M	17.019M	21.846M	17.072M
6855MHz	Pass	Inf	22.836M	17.125M	24.288M	17.072M	23.034M	17.099M	22.308M	17.099M
6875MHz Straddle 6.875-7.125GHz	Pass	Inf	23.3M	17.091M	25.775M	17.091M	25.1M	17.041M	24.45M	17.066M
6895MHz	Pass	Inf	23.43M	17.125M	23.298M	17.072M	22.44M	17.072M	22.836M	17.046M
7015MHz	Pass	Inf	22.11M	17.072M	22.242M	17.019M	22.704M	16.993M	21.648M	16.967M
7095MHz	Pass	Inf	22.572M	17.072M	22.242M	17.019M	22.638M	16.967M	22.11M	16.967M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6115MHz	Pass	Inf	25.542M	19.19M	22.836M	19.16M	22.44M	19.16M	24.486M	19.16M
6255MHz	Pass	Inf	24.684M	19.19M	22.11M	19.13M	22.176M	19.16M	23.562M	19.13M
6415MHz	Pass	Inf	22.77M	19.1M	24.222M	19.19M	23.694M	19.16M	22.308M	19.19M
6435MHz	Pass	Inf	24.222M	19.16M	24.684M	19.16M	21.912M	19.16M	23.76M	19.19M
6475MHz	Pass	Inf	24.552M	19.19M	22.308M	19.19M	21.78M	19.16M	23.628M	19.16M
6515MHz	Pass	Inf	22.308M	19.16M	24.75M	19.16M	23.496M	19.16M	24.222M	19.13M
6535MHz	Pass	Inf	21.516M	19.19M	22.836M	19.16M	24.948M	19.19M	23.76M	19.19M
6715MHz	Pass	Inf	22.374M	19.16M	24.024M	19.19M	21.912M	19.19M	24.156M	19.19M
6855MHz	Pass	Inf	23.496M	19.22M	24.156M	19.19M	23.298M	19.16M	22.176M	19.19M
6875MHz Straddle 6.875-7.125GHz	Pass	Inf	23.675M	19.165M	24.675M	19.165M	24.175M	19.14M	22.6M	19.14M
6895MHz	Pass	Inf	24.618M	19.16M	21.978M	19.19M	23.496M	19.16M	22.374M	19.19M
7015MHz	Pass	Inf	24.75M	19.13M	23.232M	19.16M	23.364M	19.19M	24.156M	19.16M
7095MHz	Pass	Inf	22.242M	19.16M	21.846M	19.16M	24.486M	19.19M	22.44M	19.19M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6125MHz	Pass	Inf	41.844M	37.901M	42.108M	37.781M	41.448M	37.901M	40.788M	37.841M
6245MHz	Pass	Inf	41.844M	37.901M	50.292M	37.841M	41.184M	37.901M	41.58M	37.901M
6405MHz	Pass	Inf	43.032M	37.901M	41.184M	37.901M	41.844M	37.901M	44.484M	37.901M
6445MHz	Pass	Inf	42.636M	37.901M	42.504M	37.901M	42.24M	37.841M	40.92M	37.841M
6485MHz	Pass	Inf	41.712M	37.781M	42.108M	37.841M	42.24M	37.901M	41.58M	37.781M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	42.6M	37.831M	41.65M	37.831M	41.7M	37.831M	42.15M	37.781M
6565MHz	Pass	Inf	42.9M	37.901M	41.58M	37.841M	47.124M	37.781M	43.032M	37.961M
6725MHz	Pass	Inf	41.58M	37.901M	42.768M	37.841M	42.636M	37.901M	41.976M	37.901M

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)
6845MHz	Pass	Inf	41.976M	37.901M	41.184M	37.901M	41.316M	37.841M	42.504M	37.841M
6885MHz Straddle 6.875-7.125GHz	Pass	Inf	44.6M	37.881M	42.25M	37.831M	41.7M	37.831M	44.05M	37.831M
6925MHz	Pass	Inf	42.636M	37.901M	45.672M	37.901M	45.144M	37.841M	41.316M	37.901M
7005MHz	Pass	Inf	47.256M	37.901M	41.052M	37.901M	41.976M	37.841M	45.54M	37.841M
7085MHz	Pass	Inf	46.068M	37.901M	45.804M	37.901M	44.352M	37.901M	43.824M	37.901M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6145MHz	Pass	Inf	83.16M	77.361M	83.688M	77.361M	84.48M	77.481M	82.896M	77.601M
6225MHz	Pass	Inf	82.896M	77.481M	83.424M	77.361M	82.104M	77.481M	81.84M	77.481M
6385MHz	Pass	Inf	86.328M	77.481M	83.952M	77.481M	82.896M	77.481M	82.896M	77.481M
6465MHz	Pass	Inf	82.104M	77.481M	85.8M	77.481M	82.368M	77.481M	83.952M	77.481M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	83.8M	77.461M	82.6M	77.361M	84M	77.461M	83M	77.461M
6625MHz	Pass	Inf	82.104M	77.481M	82.632M	77.481M	82.896M	77.361M	83.424M	77.481M
6705MHz	Pass	Inf	83.688M	77.601M	85.008M	77.361M	82.896M	77.601M	82.632M	77.361M
6785MHz	Pass	Inf	85.536M	77.601M	85.536M	77.481M	84.48M	77.481M	84.48M	77.481M
6865MHz Straddle 6.875-7.125GHz	Pass	Inf	82.4M	77.561M	82.5M	77.261M	83M	77.361M	83.2M	77.361M
6945MHz	Pass	Inf	85.536M	77.601M	82.368M	77.481M	84.216M	77.361M	82.632M	77.361M
7025MHz	Pass	Inf	84.216M	77.481M	82.368M	77.601M	83.424M	77.481M	82.368M	77.481M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6185MHz	Pass	Inf	164.208M	156.162M	165.264M	156.402M	164.736M	156.162M	165.792M	156.642M
6345MHz	Pass	Inf	165.264M	156.402M	165.792M	156.642M	166.32M	156.402M	164.208M	156.642M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	164.8M	156.522M	165.4M	156.522M	164.2M	156.322M	164.8M	156.122M
6665MHz	Pass	Inf	164.736M	156.402M	165.264M	156.642M	164.208M	156.402M	165.792M	156.642M
6825MHz Straddle 6.875-7.125GHz	Pass	Inf	165.2M	156.522M	164.8M	156.322M	164.4M	156.522M	165M	156.322M
6985MHz	Pass	Inf	164.208M	155.922M	164.208M	155.922M	164.208M	155.682M	165.264M	156.162M

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

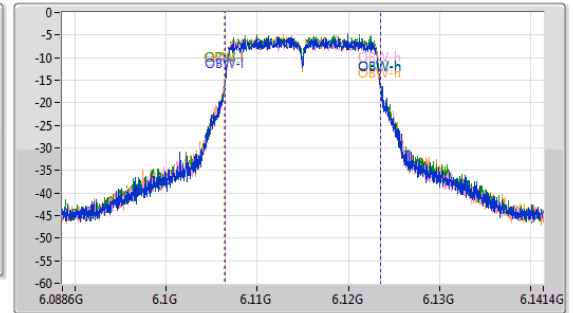
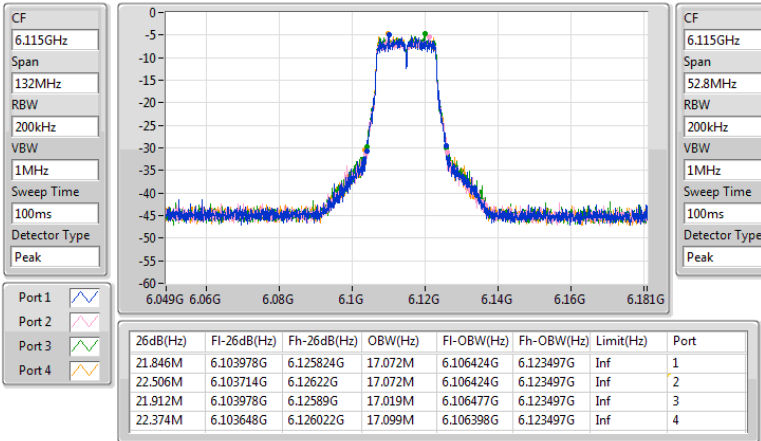
Port X-OBW = Port X 99% occupied bandwidth



5.925-6.425GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

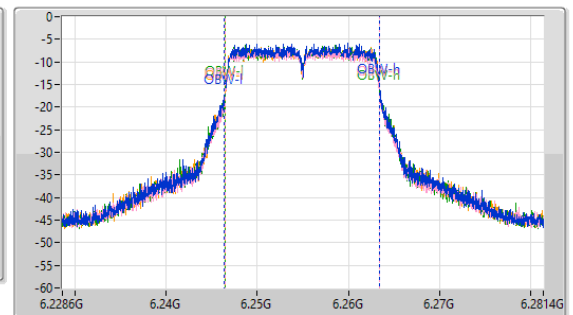
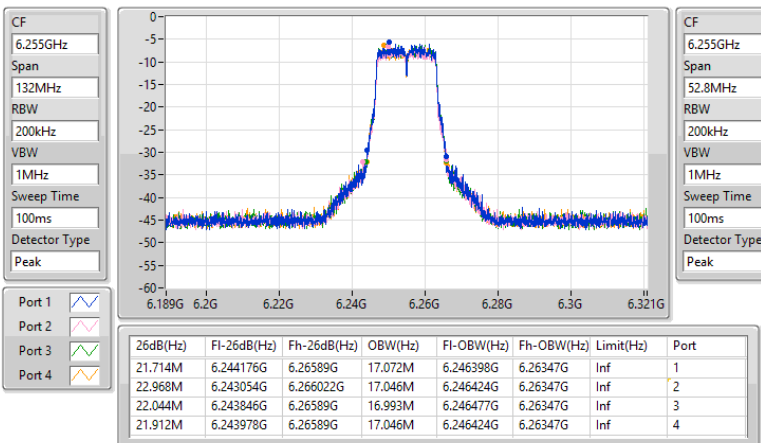
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5.925-6.425GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

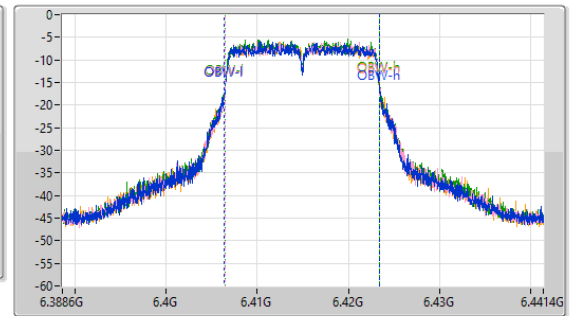
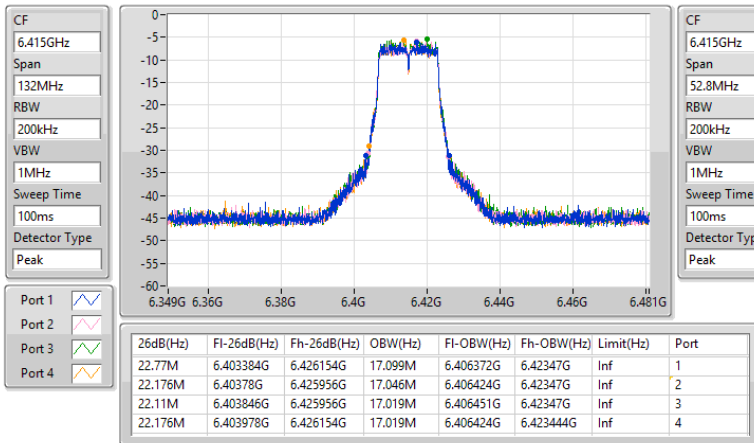
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5.925-6.425GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

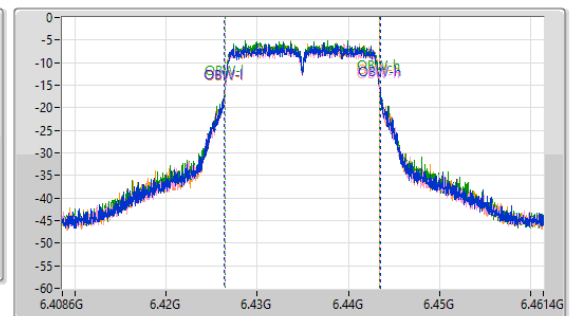
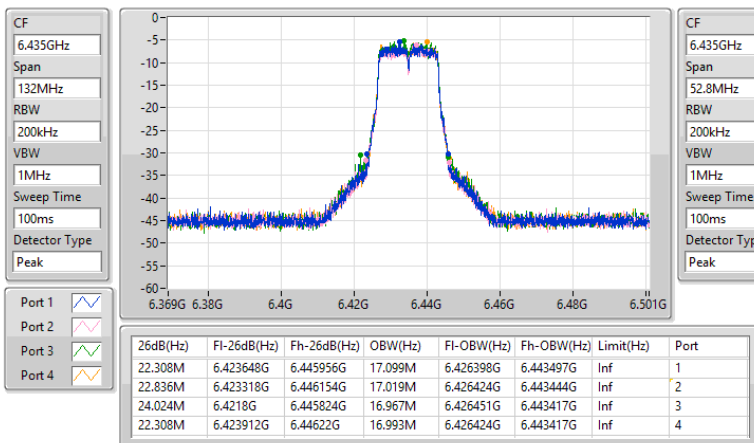
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6.425-6.525GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

6435MHz

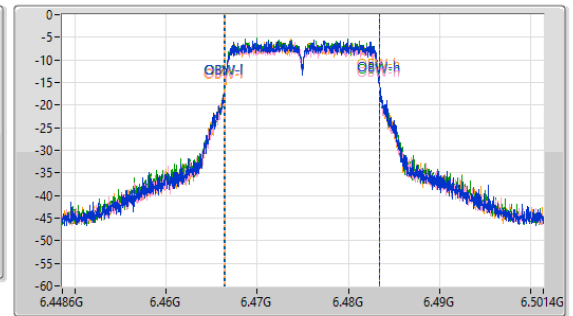
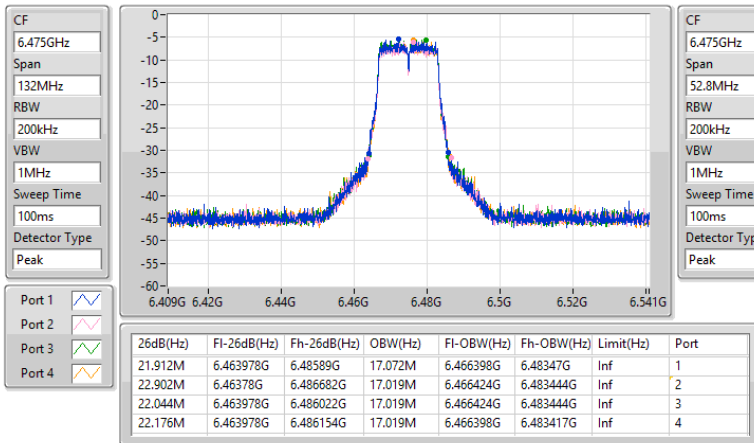




6.425-6.525GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

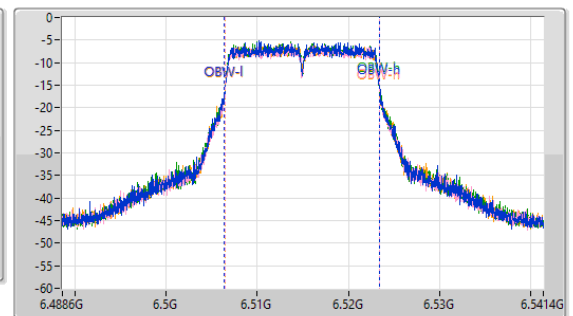
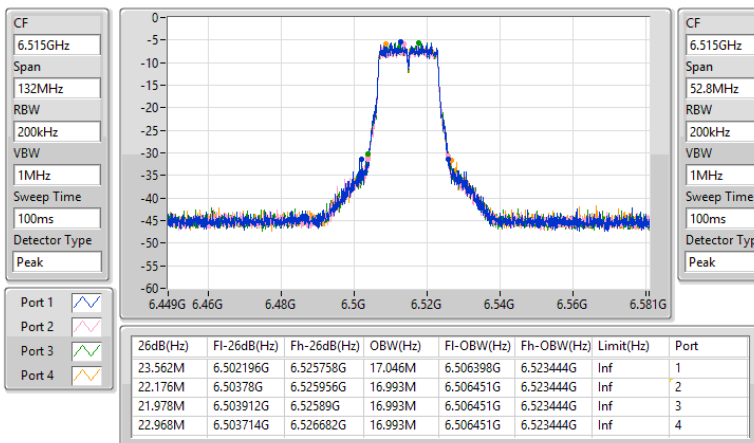
6475MHz



6.425-6.525GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

6515MHz

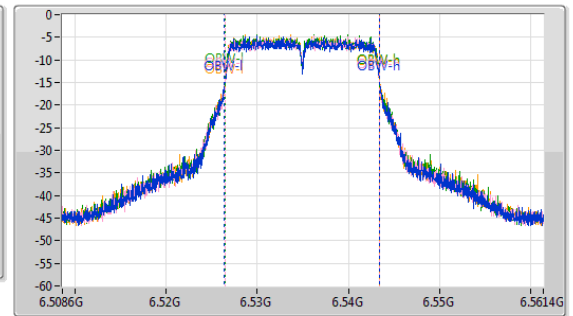
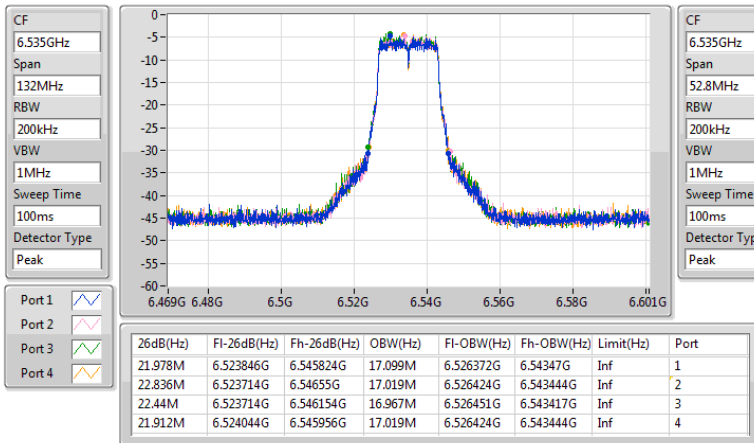




6.525-6.875GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

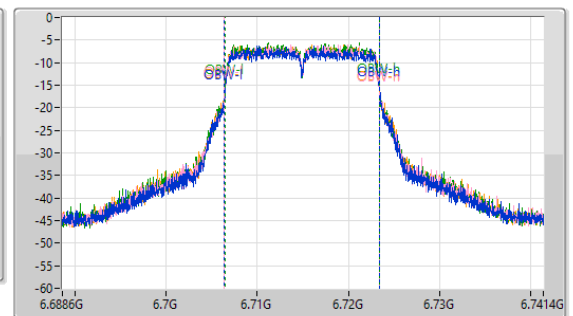
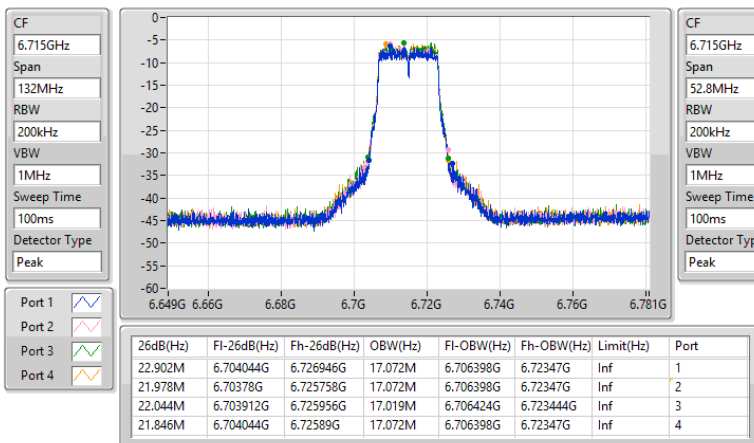
6535MHz



6.525-6.875GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

6715MHz

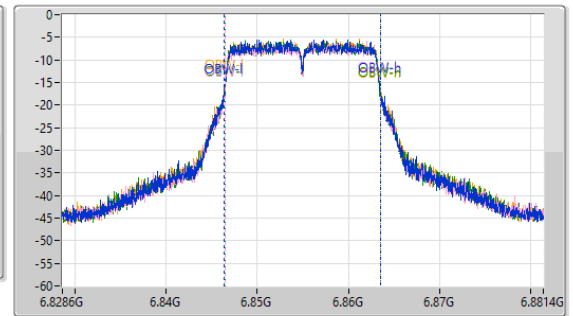
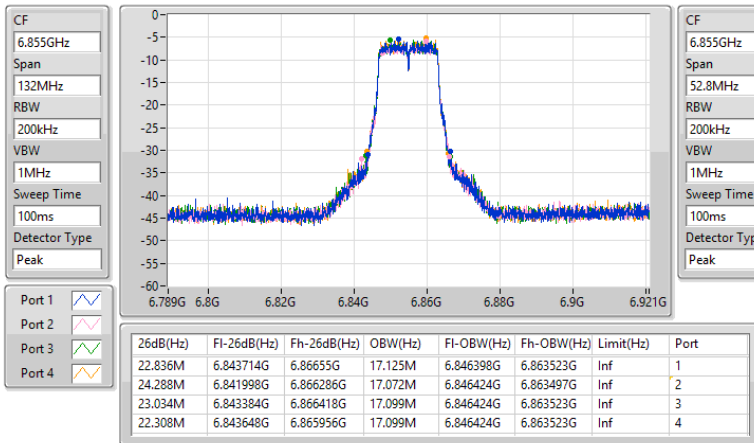




6.525-6.875GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

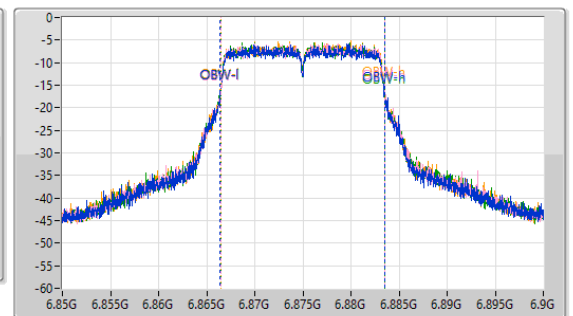
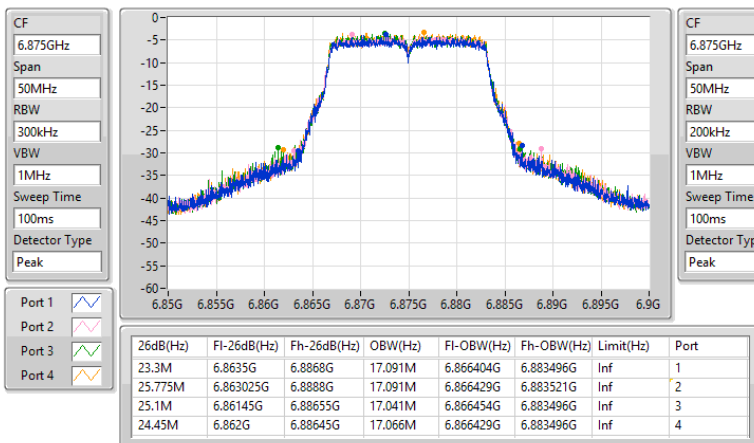
6855MHz



6.875-7.125GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

6875MHz Straddle 6.875-7.125GHz

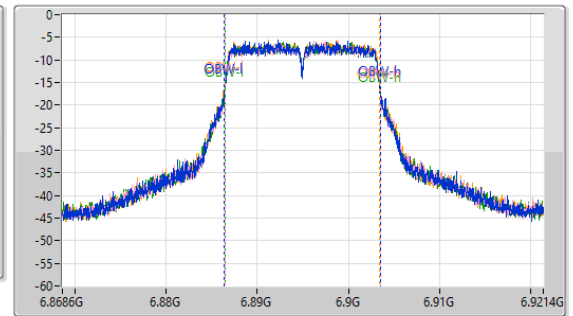
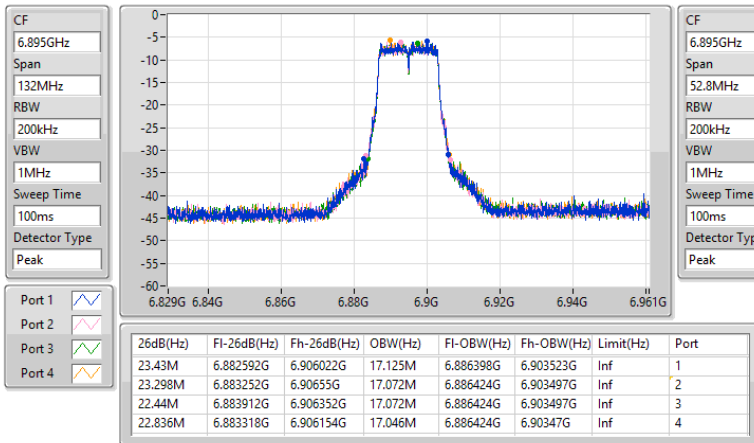




6.875-7.125GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

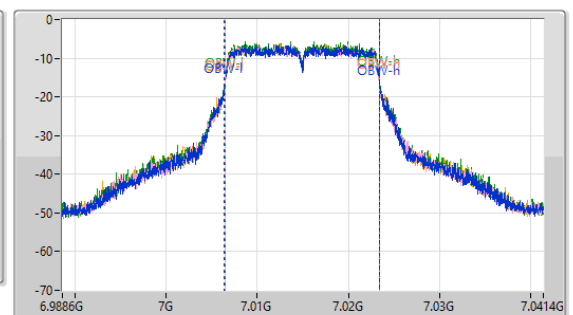
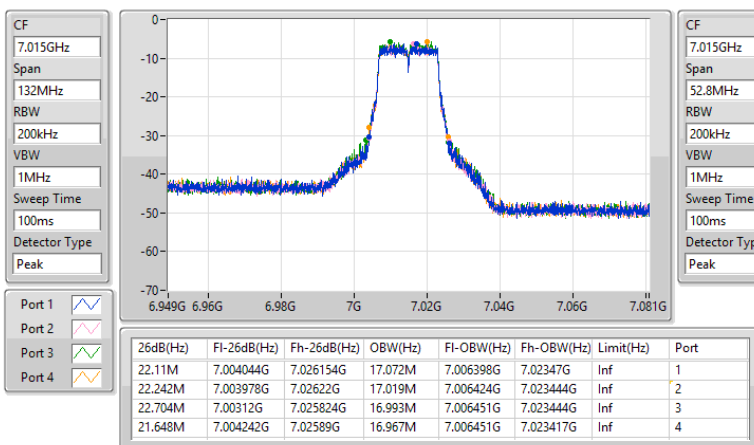
6895MHz



6.875-7.125GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

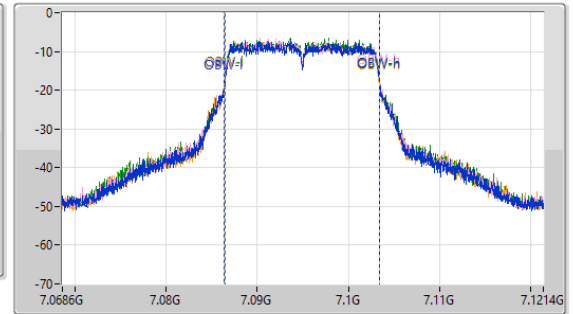
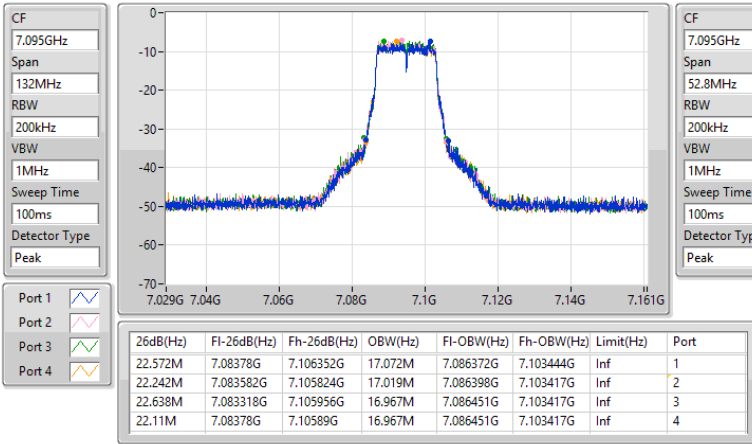
7015MHz



6.875-7.125GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

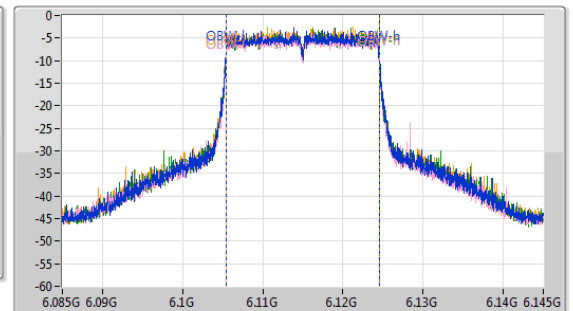
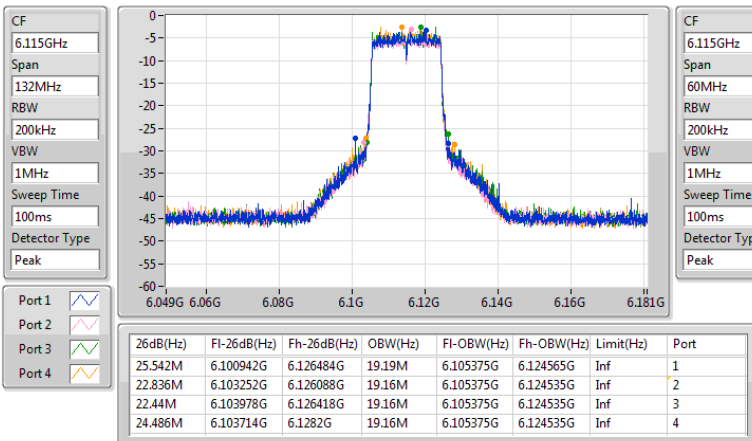
7095MHz



5.925-6.425GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

EBW

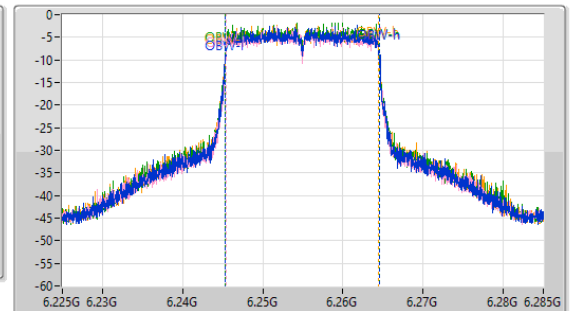
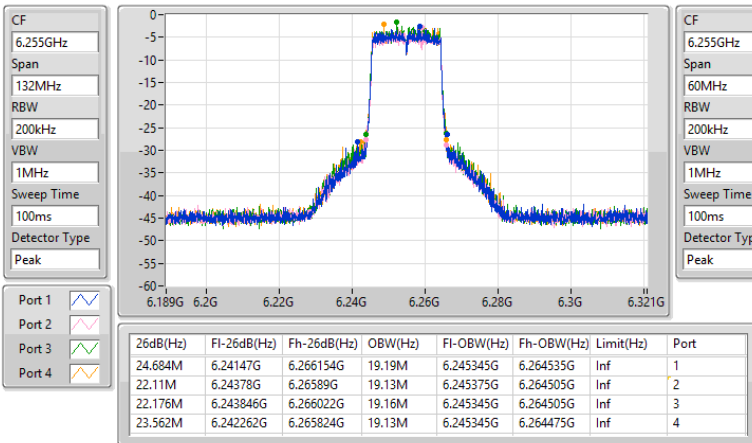
6115MHz



5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

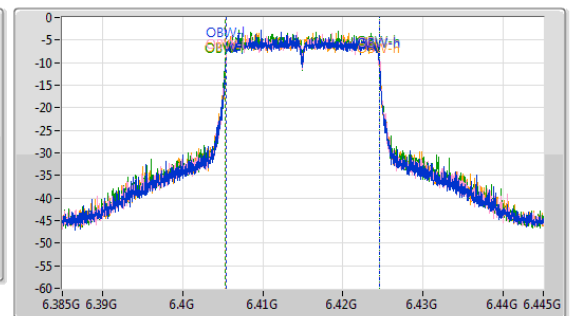
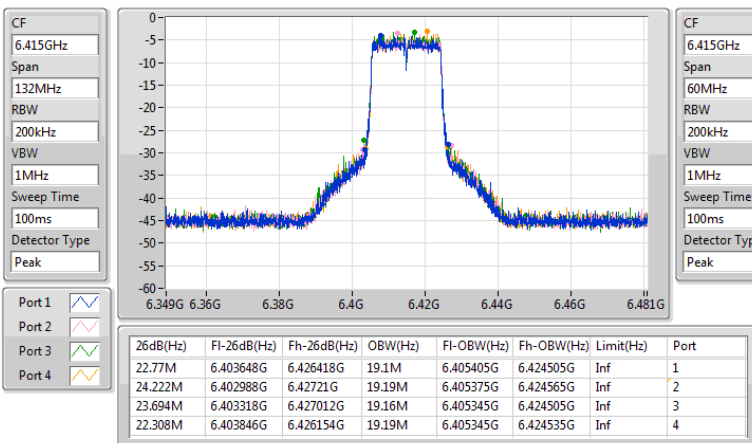
6255MHz



5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

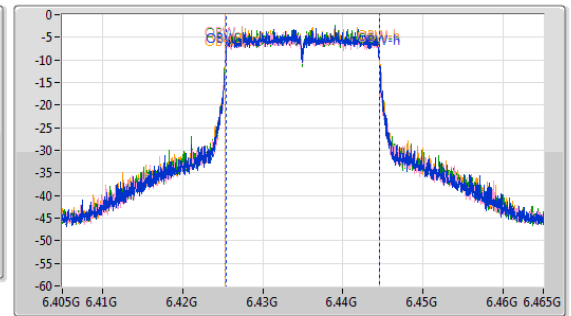
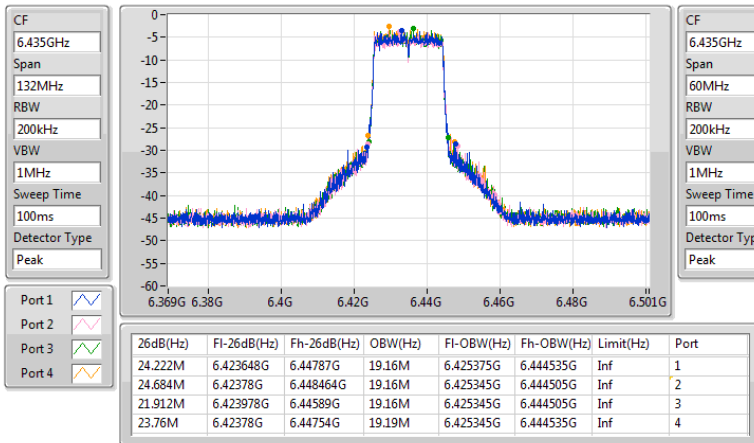
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6.425-6.525GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

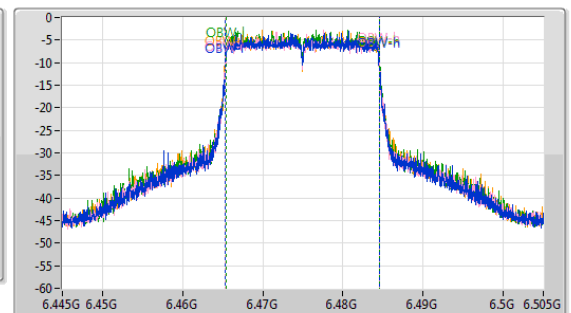
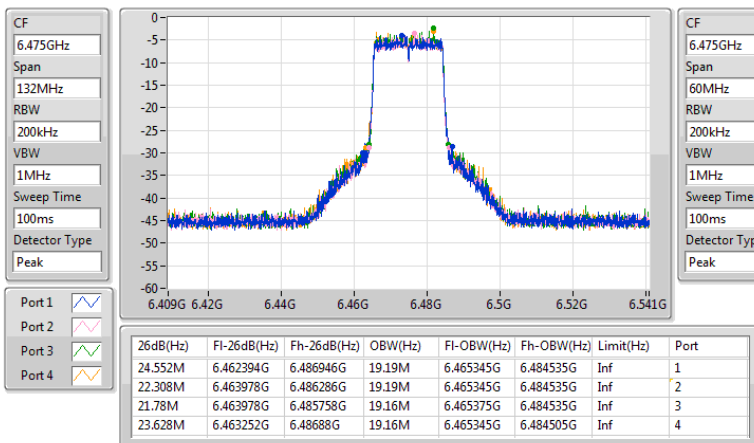
6435MHz



6.425-6.525GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6475MHz

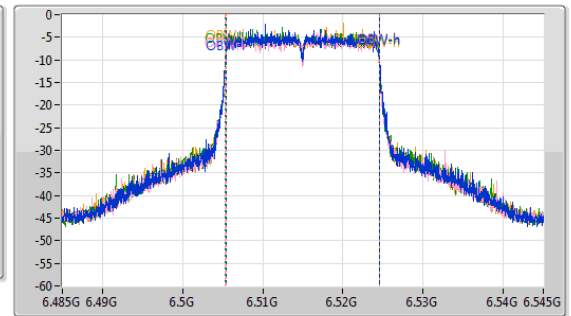
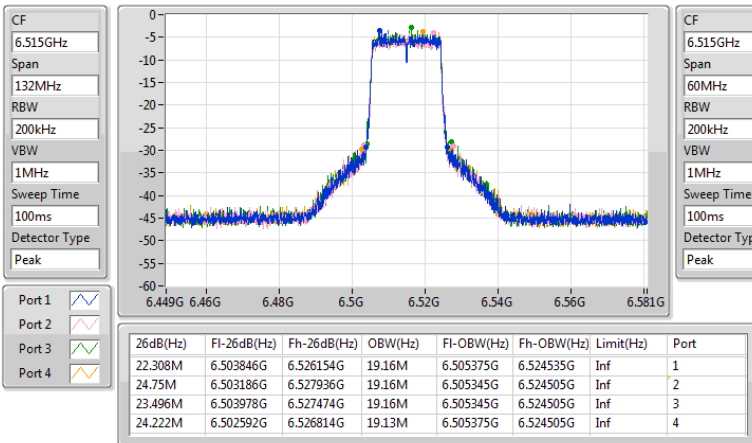




6.425-6.525GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

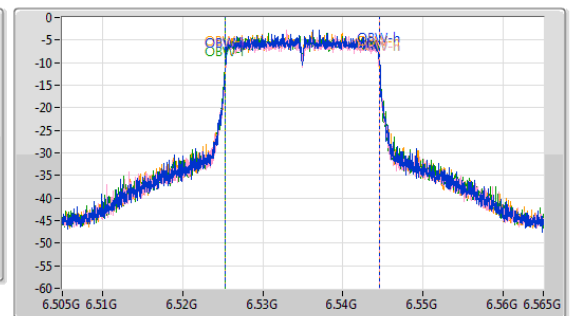
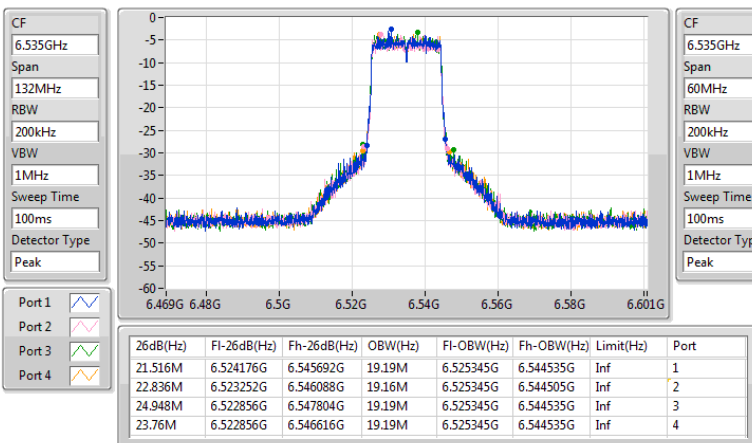
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6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6535MHz

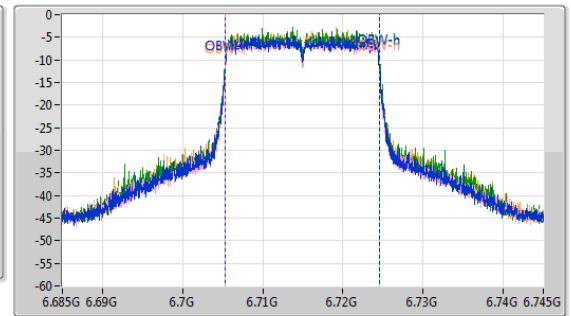
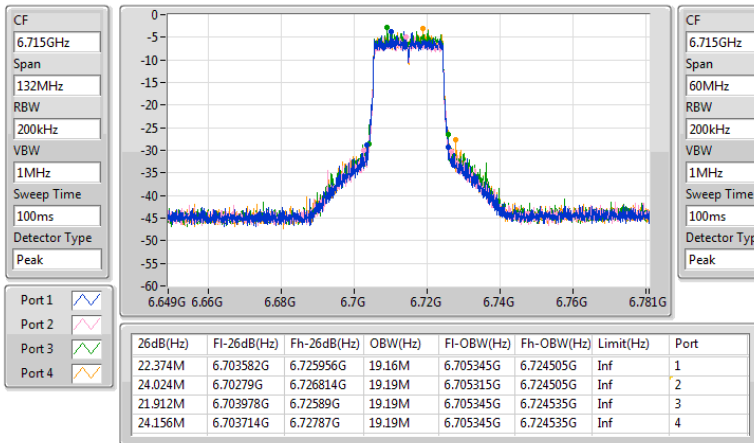




6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

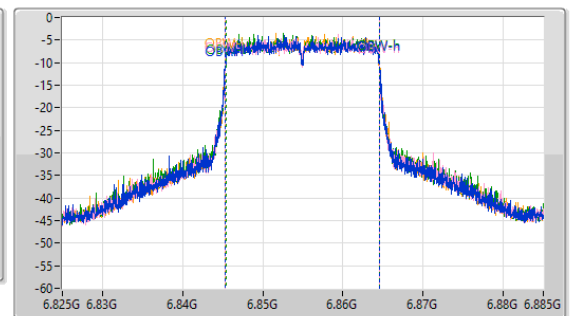
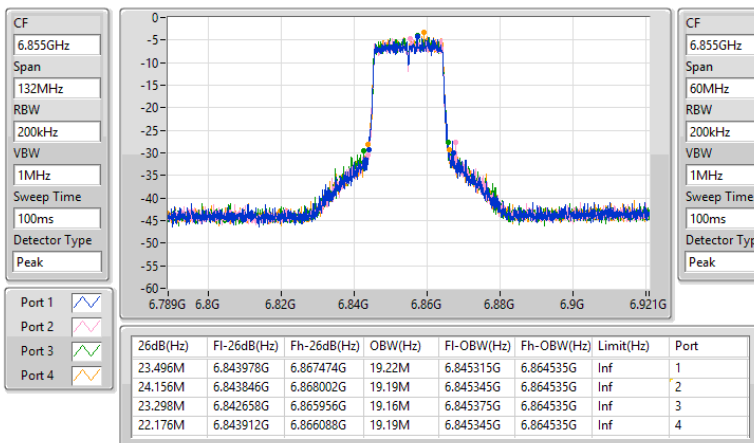
6715MHz



6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6855MHz

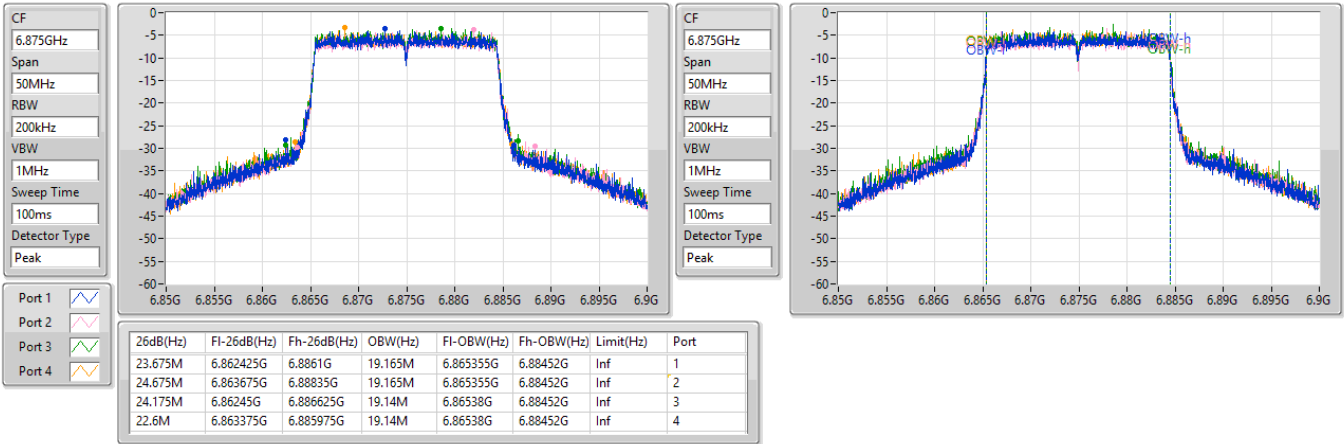




6.875-7.125GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

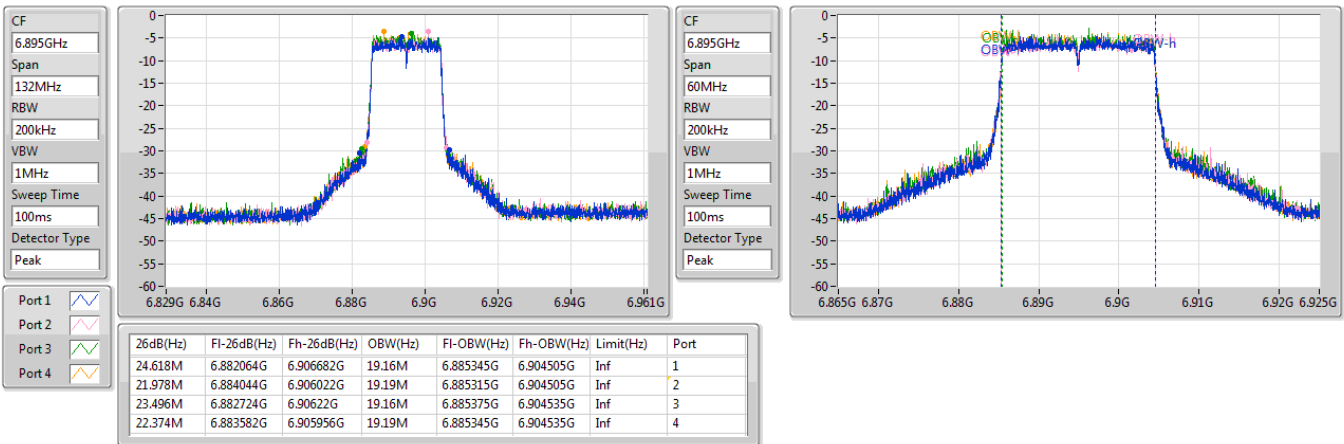
6875MHz Straddle 6.875-7.125GHz



6.875-7.125GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

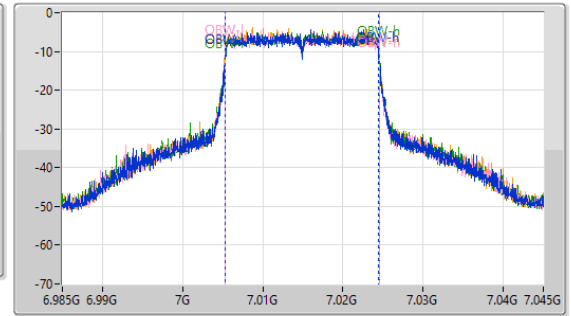
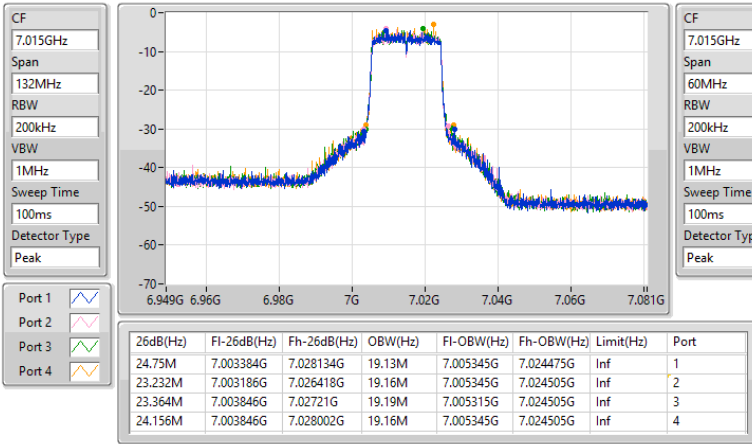
6895MHz



6.875-7.125GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

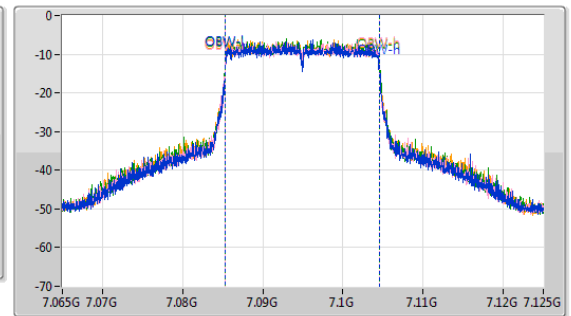
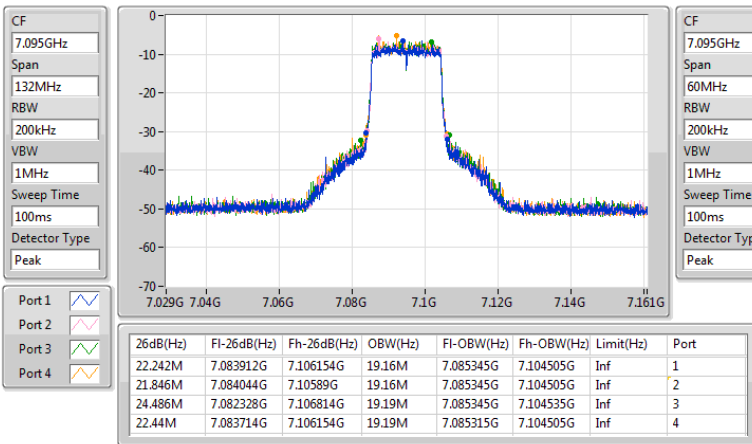
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6.875-7.125GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

7095MHz

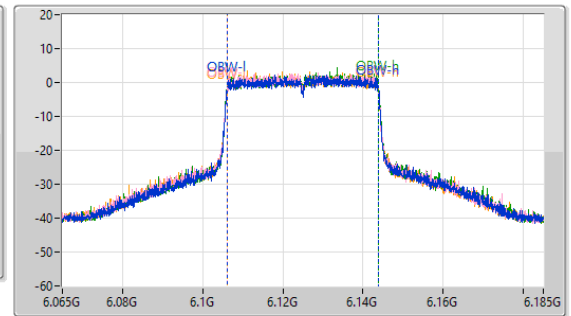
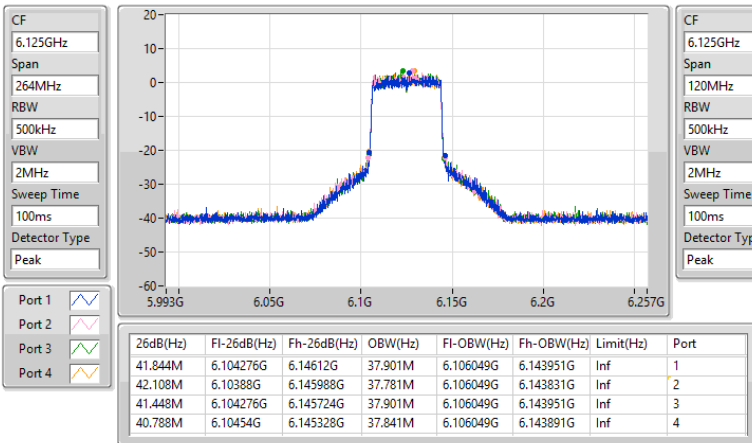




5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

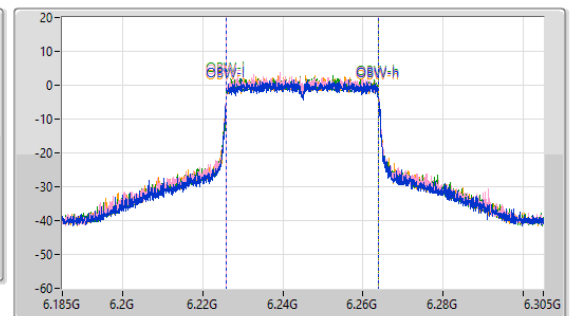
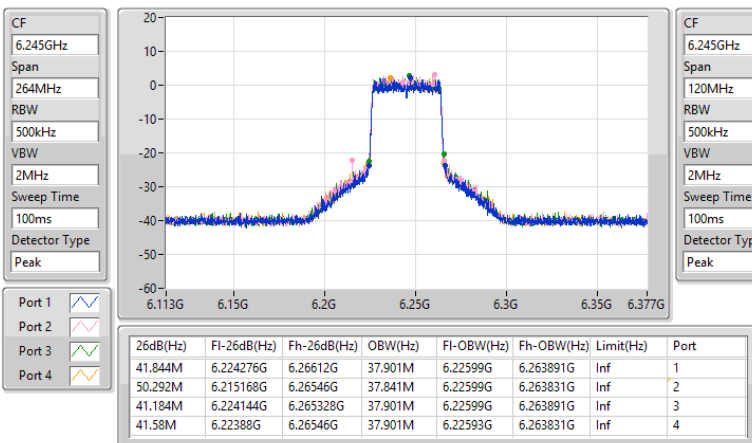
6125MHz



5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6245MHz

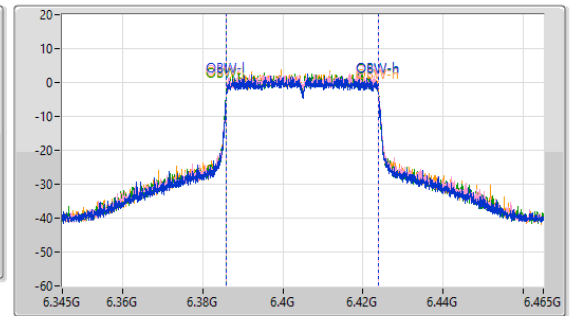
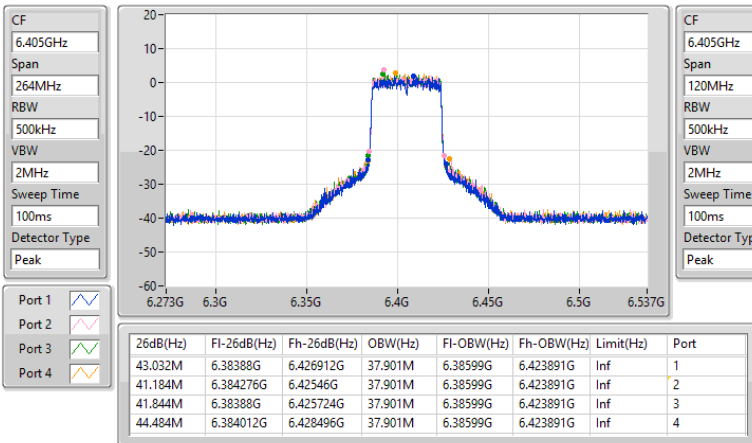




5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

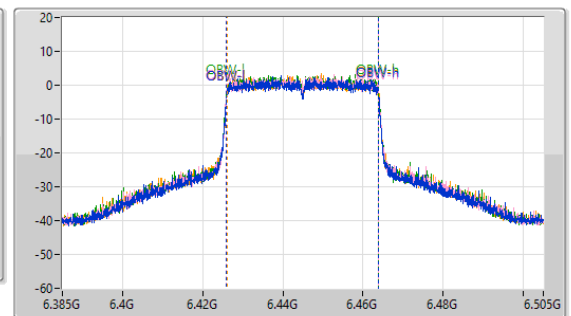
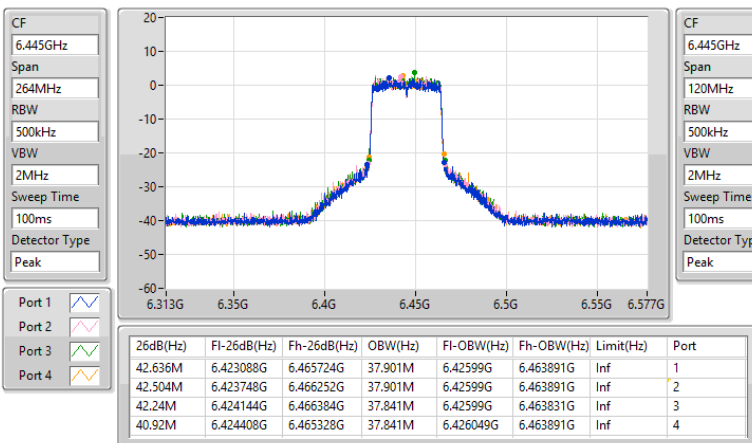
6405MHz



6.425-6.525GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6445MHz

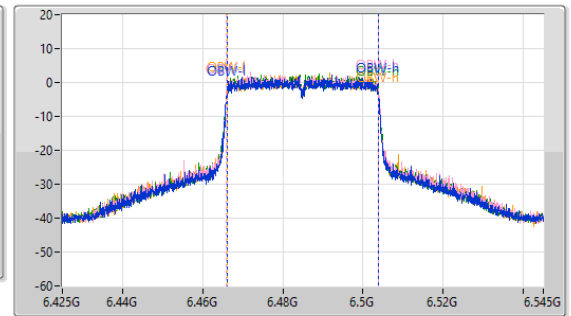
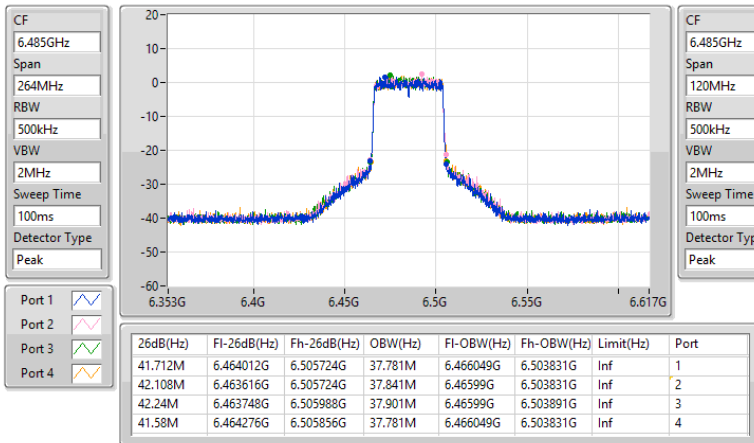




6.425-6.525GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

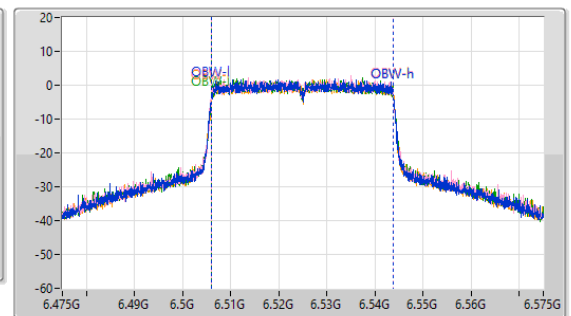
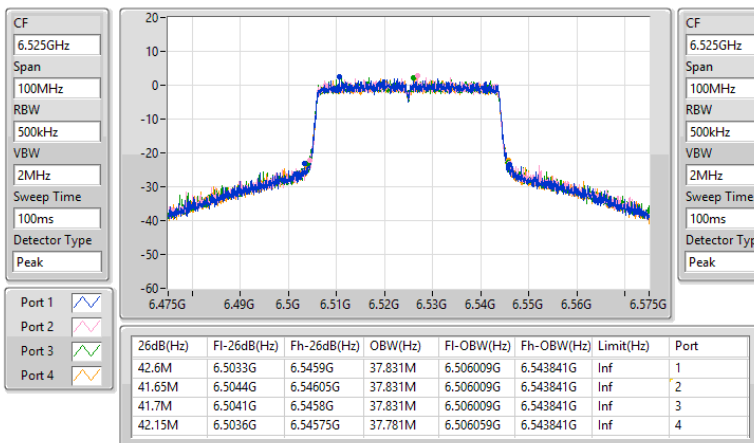
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6.425-6.525GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6525MHz Straddle 6.425-6.525GHz

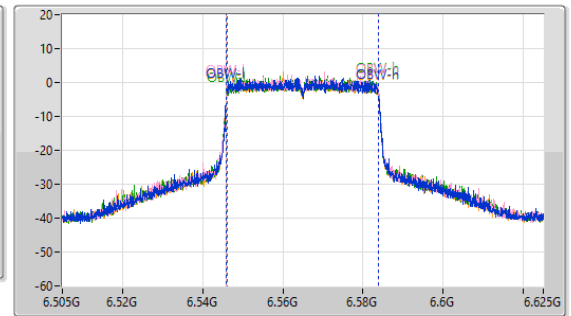
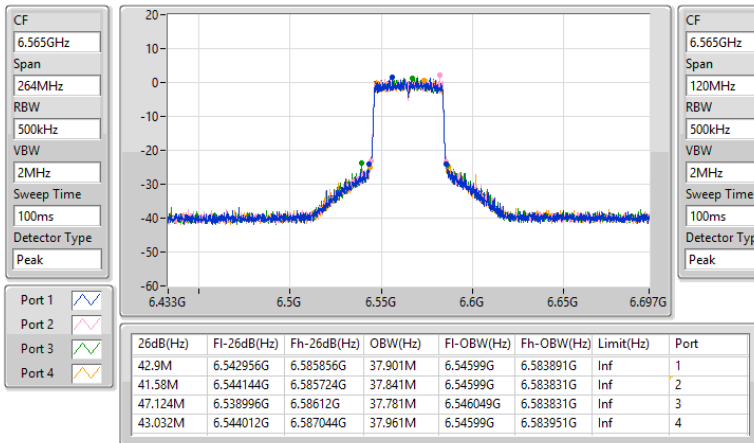




6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

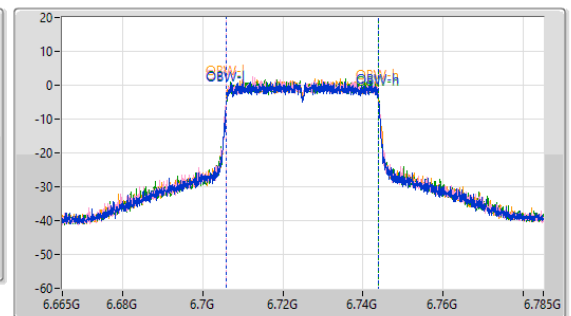
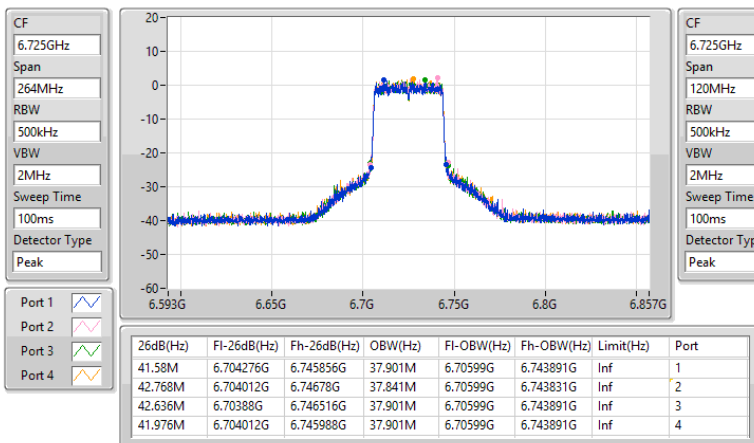
6565MHz



6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6725MHz

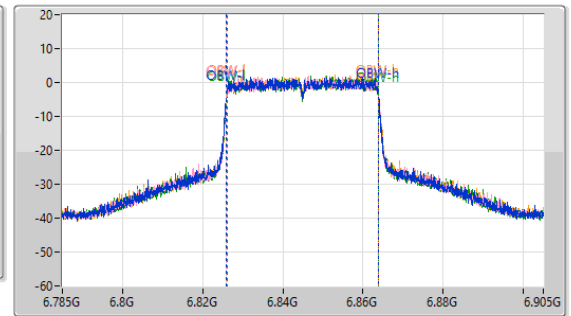
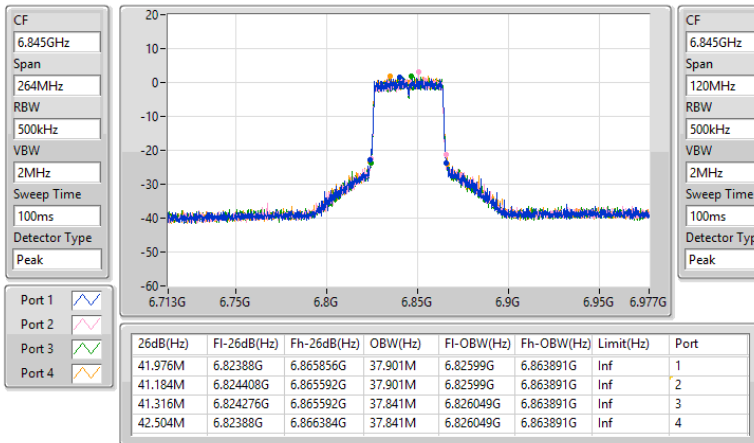




6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

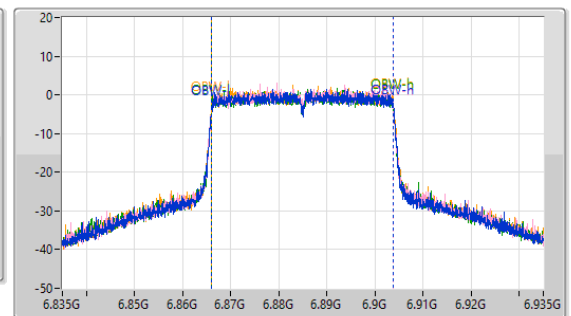
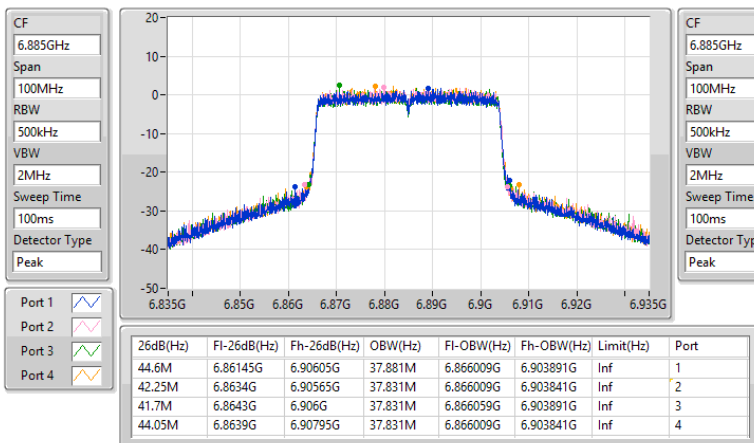
6845MHz



6.875-7.125GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6885MHz Straddle 6.875-7.125GHz

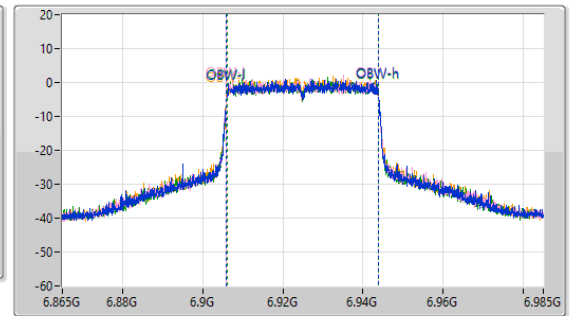
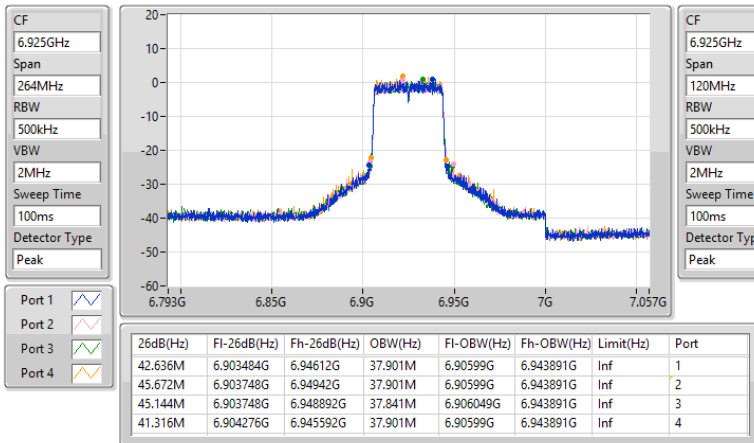




6.875-7.125GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

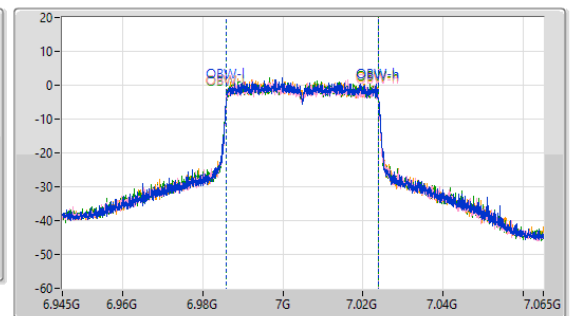
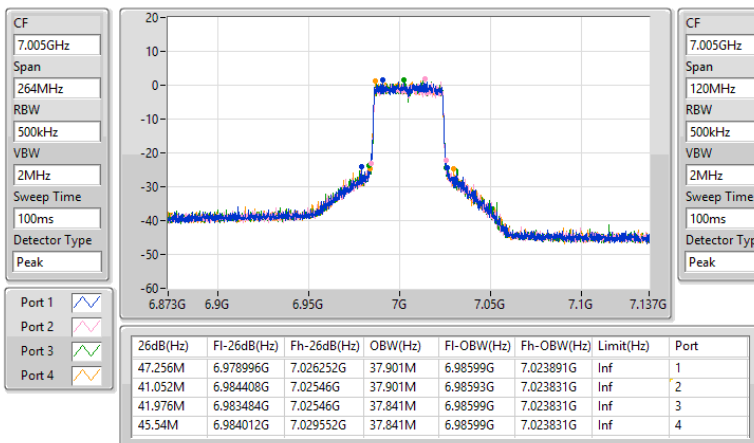
6925MHz



6.875-7.125GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

7005MHz

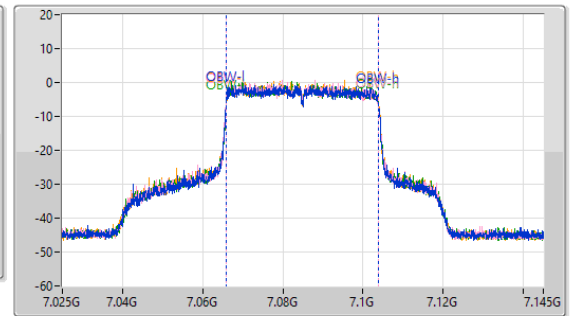
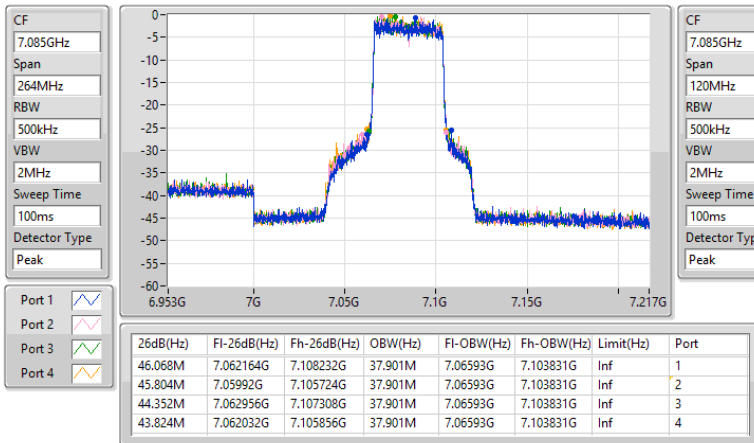




6.875-7.125GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

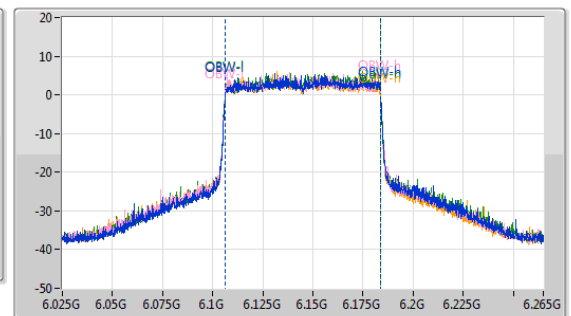
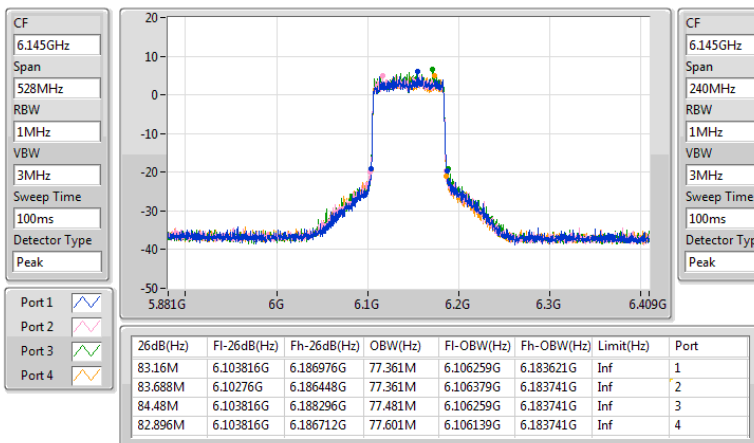
7085MHz



5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6145MHz

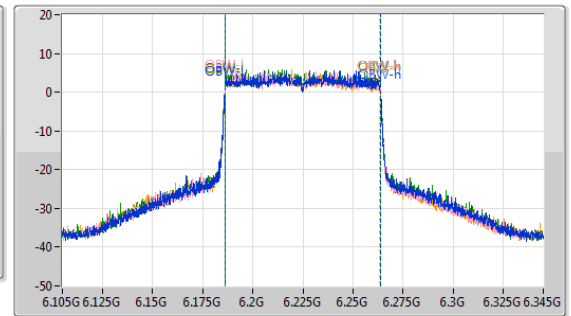
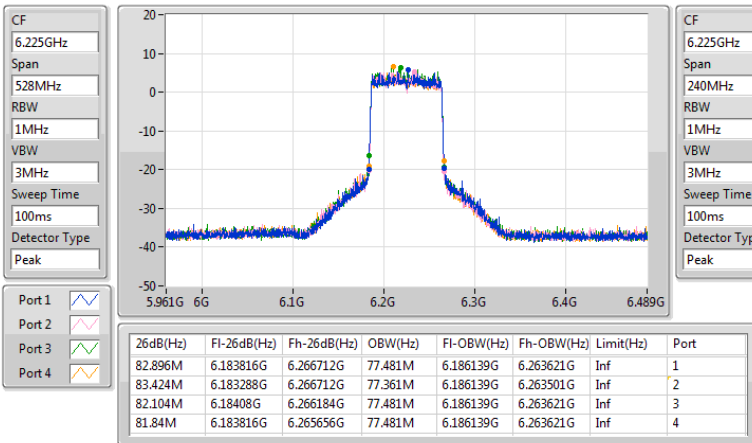




5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

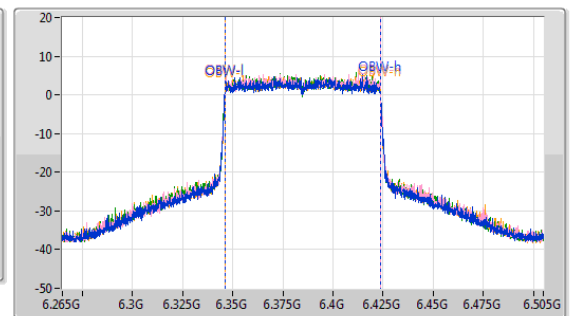
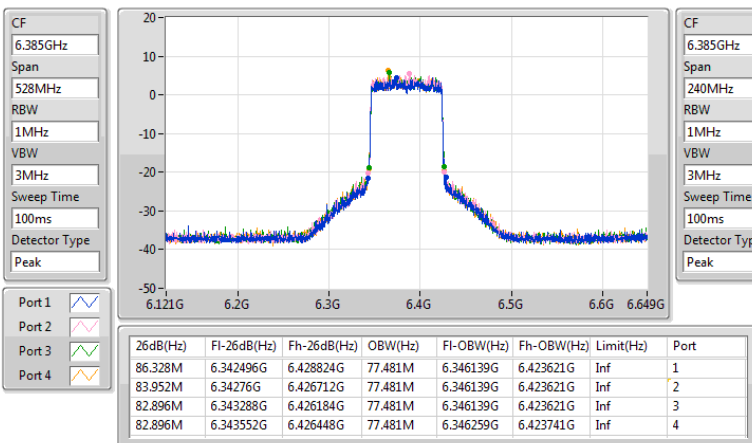
6225MHz



5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6385MHz

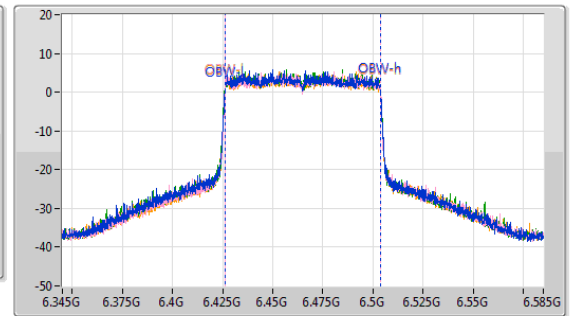
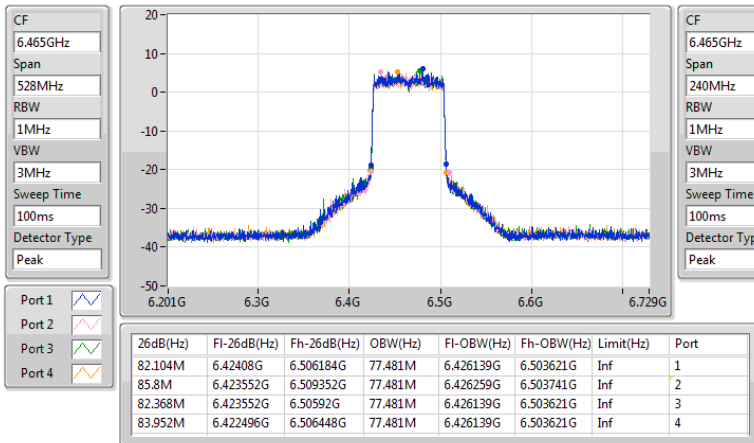




6.425-6.525GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

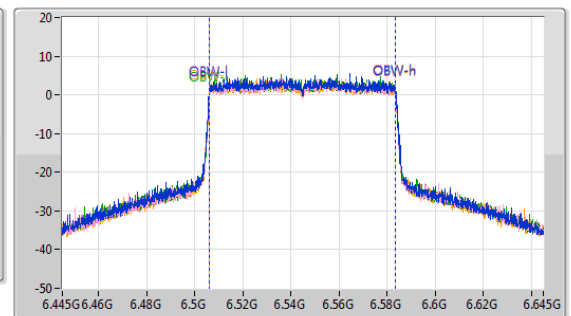
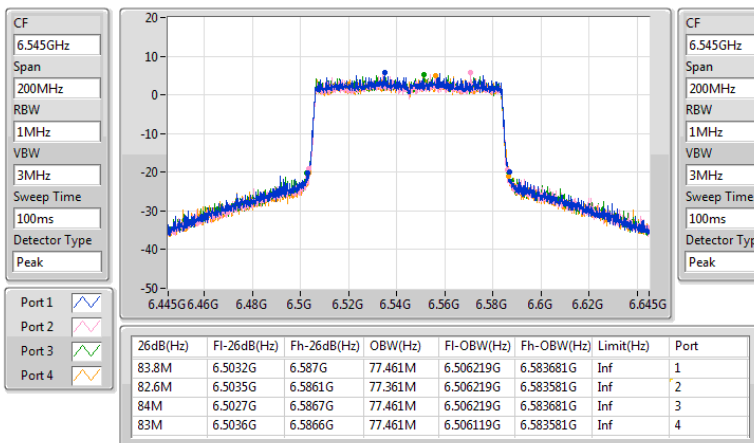
6465MHz



6.425-6.525GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6545MHz Straddle 6.425-6.525GHz

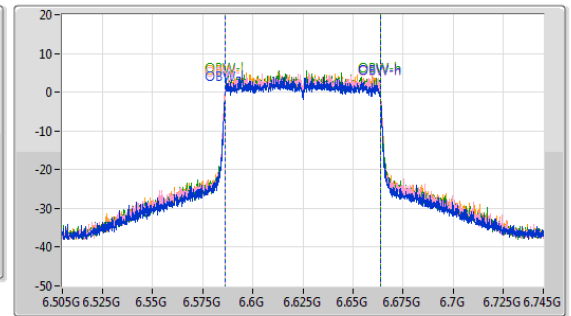
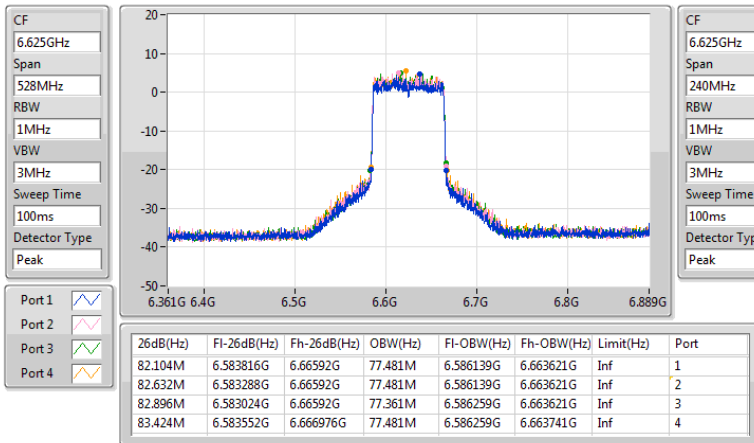




6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

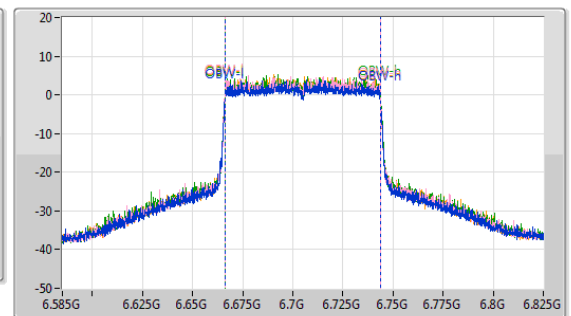
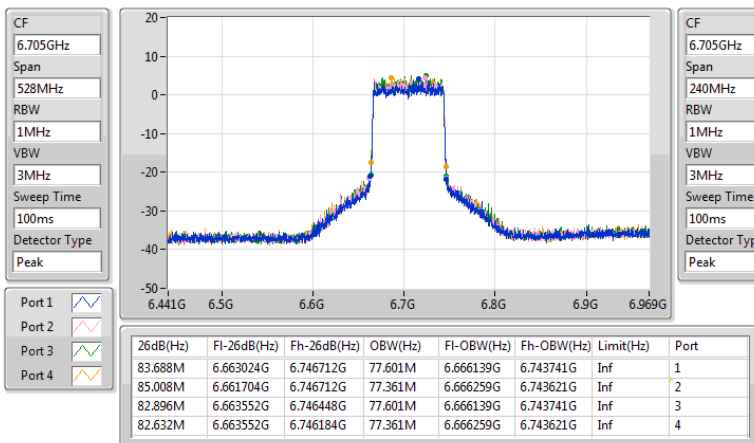
6625MHz



6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6705MHz

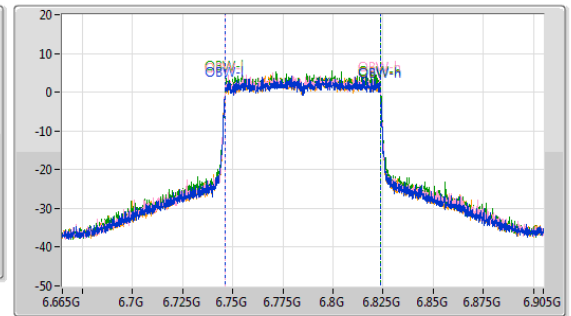
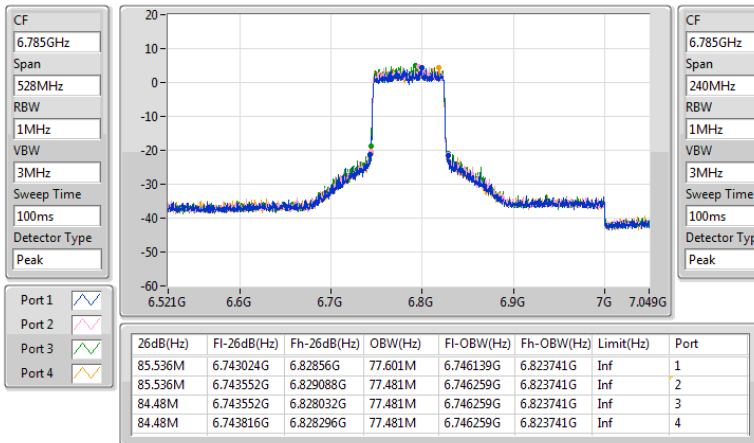




6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

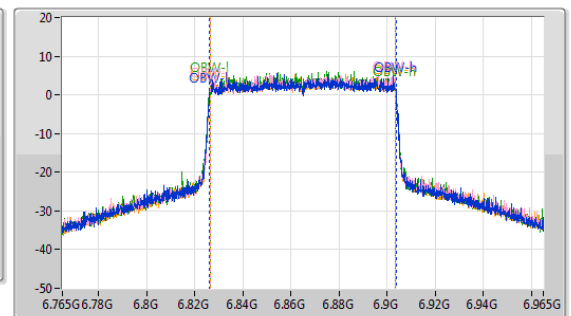
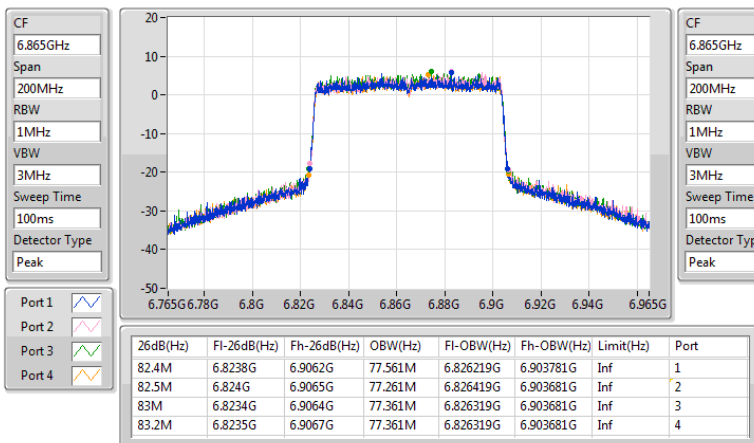
6785MHz



6.875-7.125GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6865MHz Straddle 6.875-7.125GHz

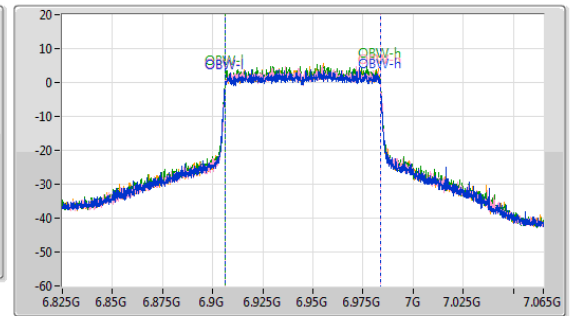
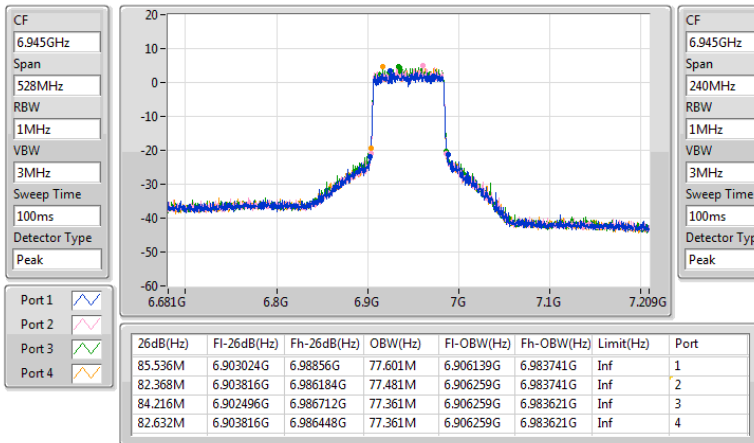




6.875-7.125GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

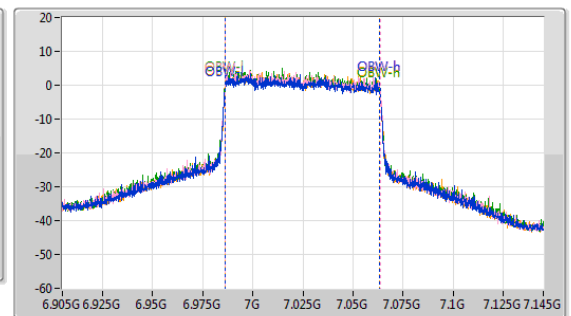
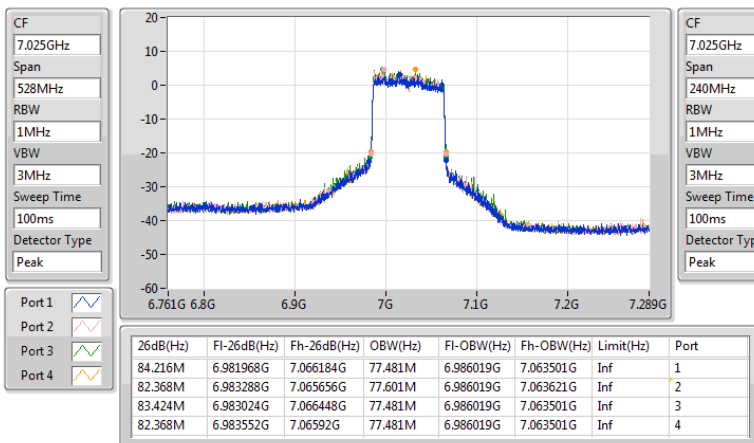
6945MHz



6.875-7.125GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

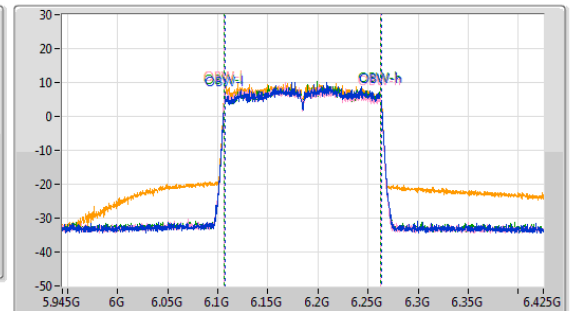
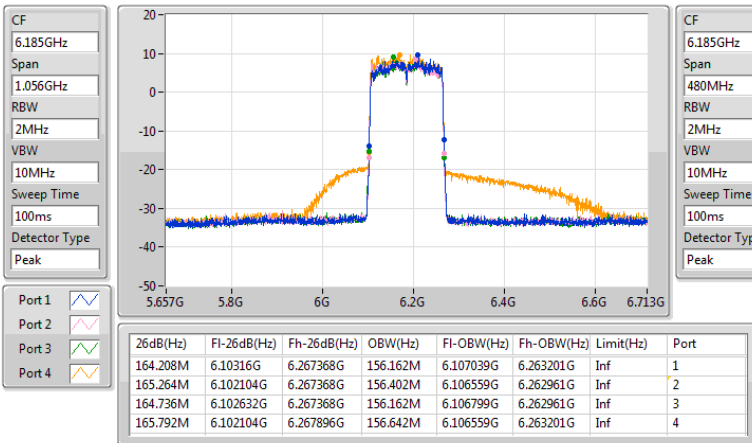
7025MHz



5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

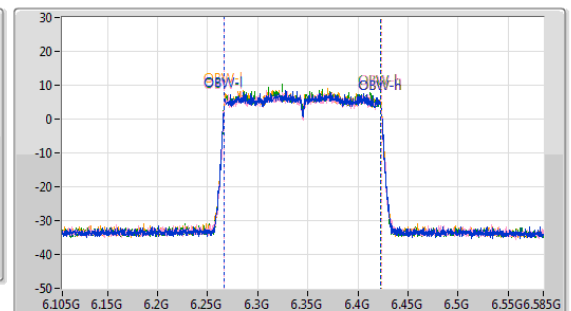
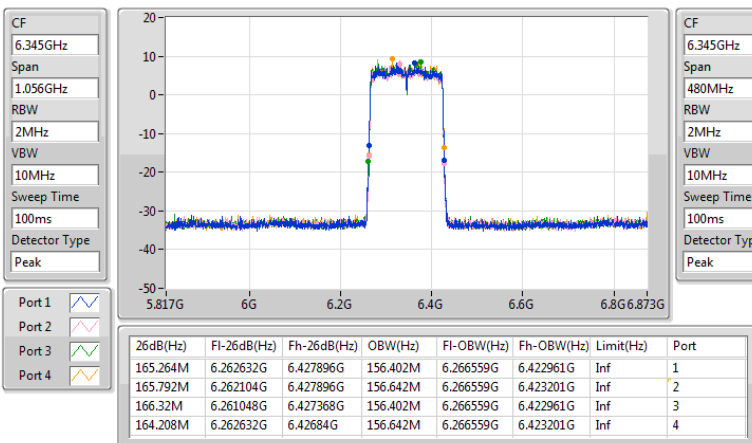
6185MHz



5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6345MHz

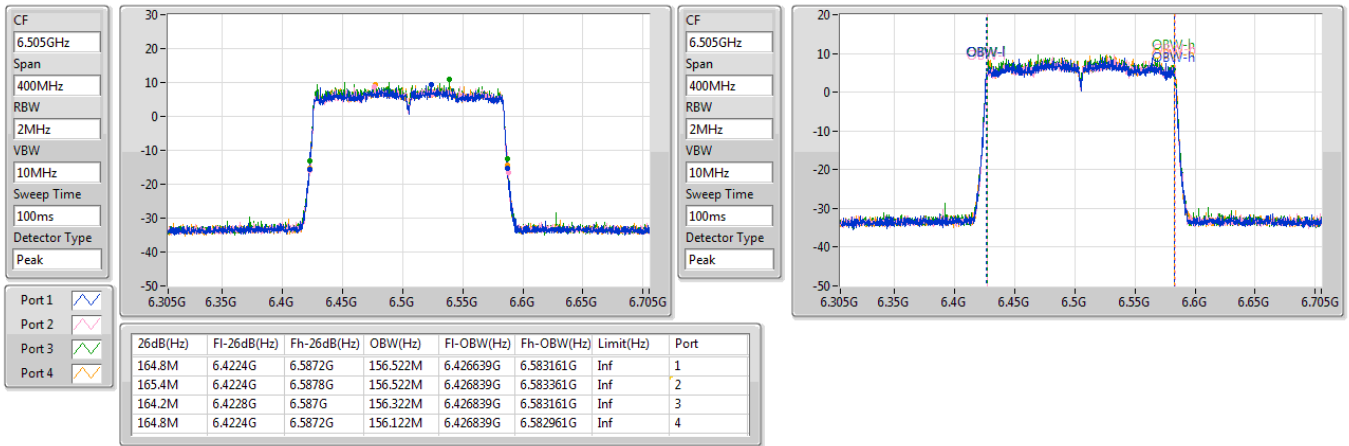




6.425-6.525GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

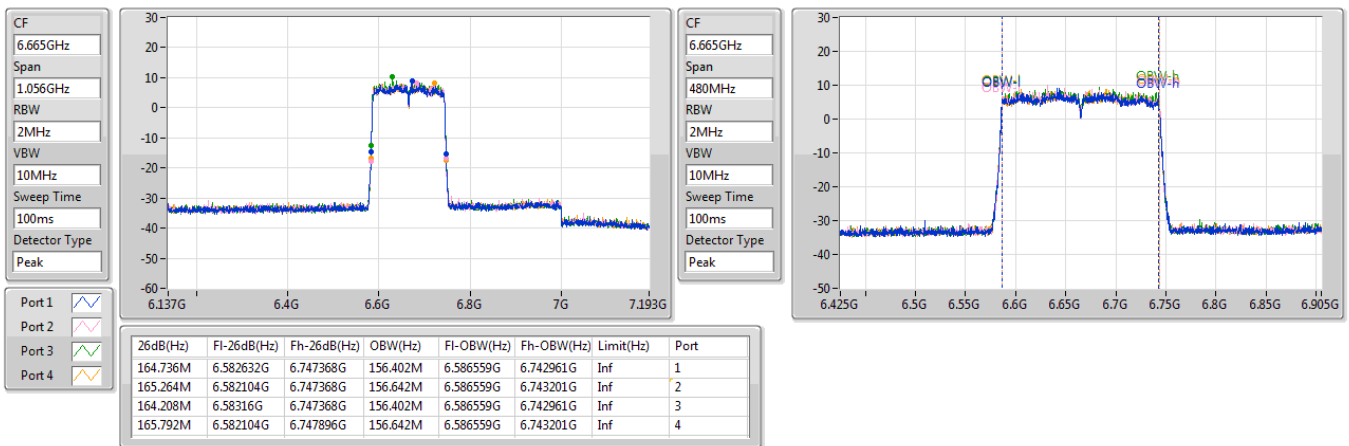
6505MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6665MHz

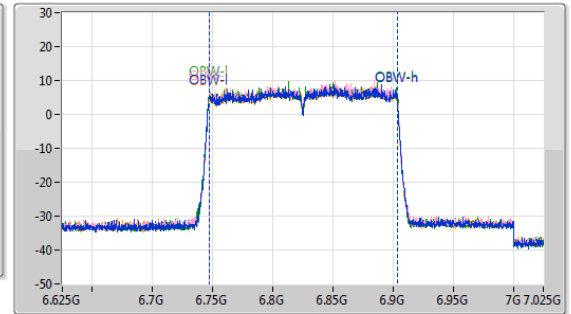
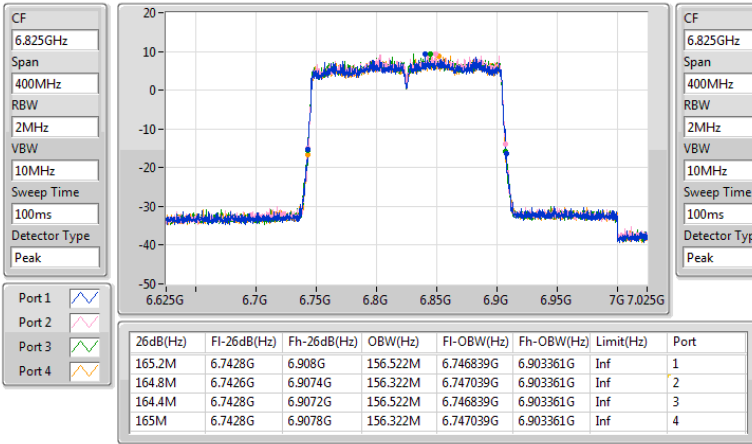




6.875-7.125GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

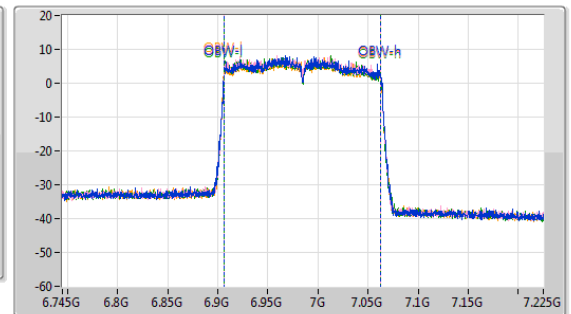
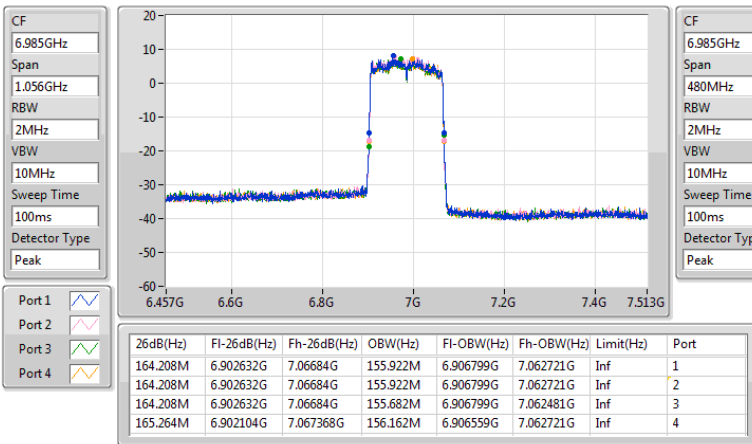
6825MHz Straddle 6.875-7.125GHz



6.875-7.125GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6985MHz





Non-beamforming mode

Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
11a	6115	33	106.11	1.65	0	107.76	12.56	30.00	Pass
11a	6255	61	105.43	2.28	0	107.71	12.51	30.00	Pass
11a	6415	93	104.45	3.1	0	107.55	12.35	30.00	Pass
11a	6435	97	104.60	3.15	0	107.75	12.55	30.00	Pass
11a	6475	105	104.28	3.35	0	107.63	12.43	30.00	Pass
11a	6515	113	104.13	3.56	0	107.69	12.49	30.00	Pass
11a	6535	117	104.20	3.64	0	107.84	12.64	30.00	Pass
11a	6715	153	104.08	3.65	0	107.73	12.53	30.00	Pass
11a	6855	181	103.81	4.12	0	107.93	12.73	30.00	Pass
11a	6875	185	103.70	4.23	0	107.93	12.73	30.00	Pass
11a	6895	189	103.27	4.35	0	107.62	12.42	30.00	Pass
11a	7015	213	102.64	5.05	0	107.69	12.49	30.00	Pass
11a	7095	229	102.57	5.47	0	108.04	12.84	30.00	Pass

Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE20	6115	33	107.10	1.65	0	108.75	13.55	30.00	Pass
ax HE20	6255	61	106.00	2.28	0	108.28	13.08	30.00	Pass
ax HE20	6415	93	105.37	3.1	0	108.47	13.27	30.00	Pass
ax HE20	6435	97	105.35	3.15	0	108.5	13.30	30.00	Pass
ax HE20	6475	105	105.08	3.35	0	108.43	13.23	30.00	Pass
ax HE20	6515	113	104.82	3.56	0	108.38	13.18	30.00	Pass
ax HE20	6535	117	104.80	3.64	0	108.44	13.24	30.00	Pass
ax HE20	6715	153	104.74	3.65	0	108.39	13.19	30.00	Pass
ax HE20	6855	181	104.07	4.12	0	108.19	12.99	30.00	Pass
ax HE20	6875	185	104.04	4.23	0	108.27	13.07	30.00	Pass
ax HE20	6895	189	103.92	4.35	0	108.27	13.07	30.00	Pass
ax HE20	7015	213	103.22	5.05	0	108.27	13.07	30.00	Pass
ax HE20	7095	229	102.87	5.47	0	108.34	13.14	30.00	Pass

Note:

EIRP(dBm) = Final Level(dBuV/m) - 95.2

Final Level(dBuV/m) = Read Level (dBuV) + Path Loss(dB/m) + DT Factor(dB)

Path Loss = Antenna Factor(dBuV/m) + Cable Loss(dB) - Preamp Factor(dB)



Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE40	6125	35	109.98	1.69	0	111.67	16.47	30.00	Pass
ax HE40	6245	59	109.47	2.24	0	111.71	16.51	30.00	Pass
ax HE40	6405	91	108.44	3.08	0	111.52	16.32	30.00	Pass
ax HE40	6445	99	108.60	3.17	0	111.77	16.57	30.00	Pass
ax HE40	6485	107	107.62	3.42	0	111.04	15.84	30.00	Pass
ax HE40	6525	115	107.68	3.6	0	111.28	16.08	30.00	Pass
ax HE40	6565	123	107.05	3.69	0	110.74	15.54	30.00	Pass
ax HE40	6725	155	107.68	3.63	0	111.31	16.11	30.00	Pass
ax HE40	6845	179	107.21	4.05	0	111.26	16.06	30.00	Pass
ax HE40	6885	187	106.79	4.3	0	111.09	15.89	30.00	Pass
ax HE40	6925	195	106.35	4.53	0	110.88	15.68	30.00	Pass
ax HE40	7005	211	105.95	5	0	110.95	15.75	30.00	Pass
ax HE40	7085	227	105.43	5.42	0	110.85	15.65	30.00	Pass

Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE80	6145	39	112.3	1.78	0	114.08	18.88	30.00	Pass
ax HE80	6225	55	111.93	2.14	0	114.07	18.87	30.00	Pass
ax HE80	6385	87	111.34	2.94	0	114.28	19.08	30.00	Pass
ax HE80	6465	103	110.74	3.29	0	114.03	18.83	30.00	Pass
ax HE80	6545	119	110.92	3.67	0	114.59	19.39	30.00	Pass
ax HE80	6625	135	110.38	3.68	0	114.06	18.86	30.00	Pass
ax HE80	6705	151	110.57	3.66	0	114.23	19.03	30.00	Pass
ax HE80	6785	167	110.61	3.72	0	114.33	19.13	30.00	Pass
ax HE80	6865	183	110.53	4.17	0	114.7	19.50	30.00	Pass
ax HE80	6945	199	109.36	4.65	0	114.01	18.81	30.00	Pass
ax HE80	7025	215	109.15	5.1	0	114.25	19.05	30.00	Pass

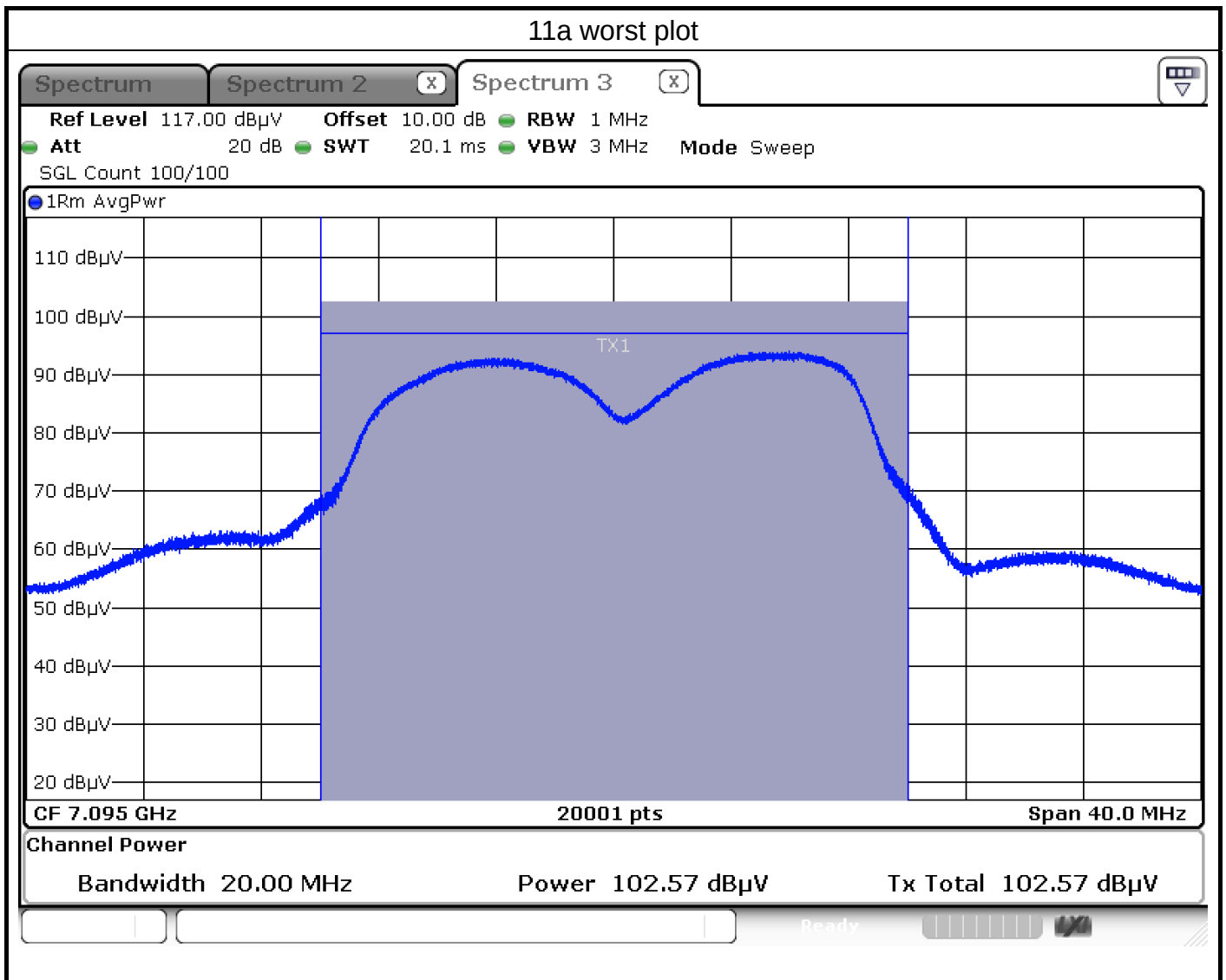
Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE160	6185	47	115.26	1.96	0	117.22	22.02	30.00	Pass
ax HE160	6345	79	114.05	2.61	0	116.66	21.46	30.00	Pass
ax HE160	6505	111	113.95	3.53	0	117.48	22.28	30.00	Pass
ax HE160	6665	143	113.42	3.68	0	117.1	21.90	30.00	Pass
ax HE160	6825	175	113.36	3.94	0	117.3	22.10	30.00	Pass
ax HE160	6985	207	111.71	4.89	0	116.6	21.40	30.00	Pass

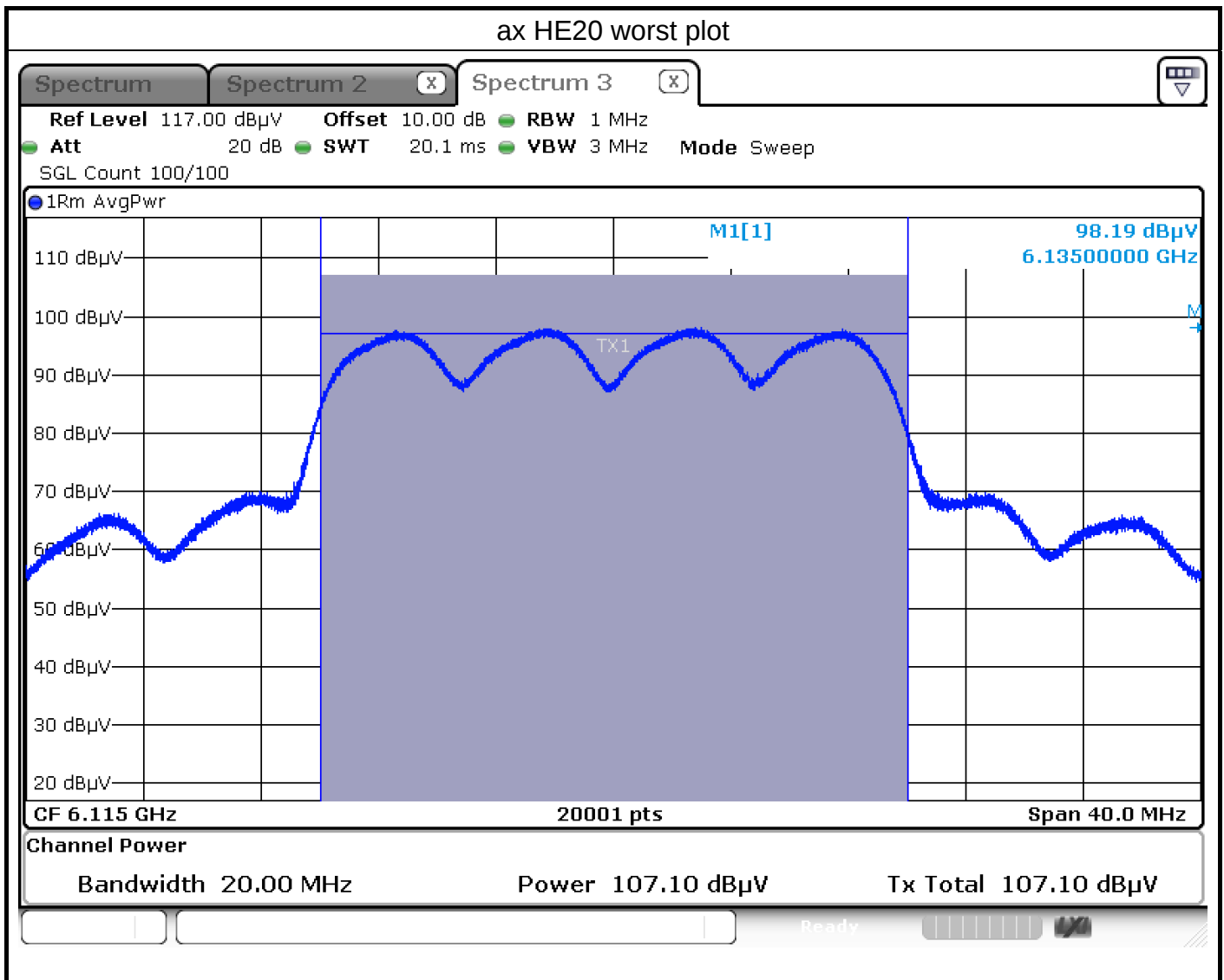
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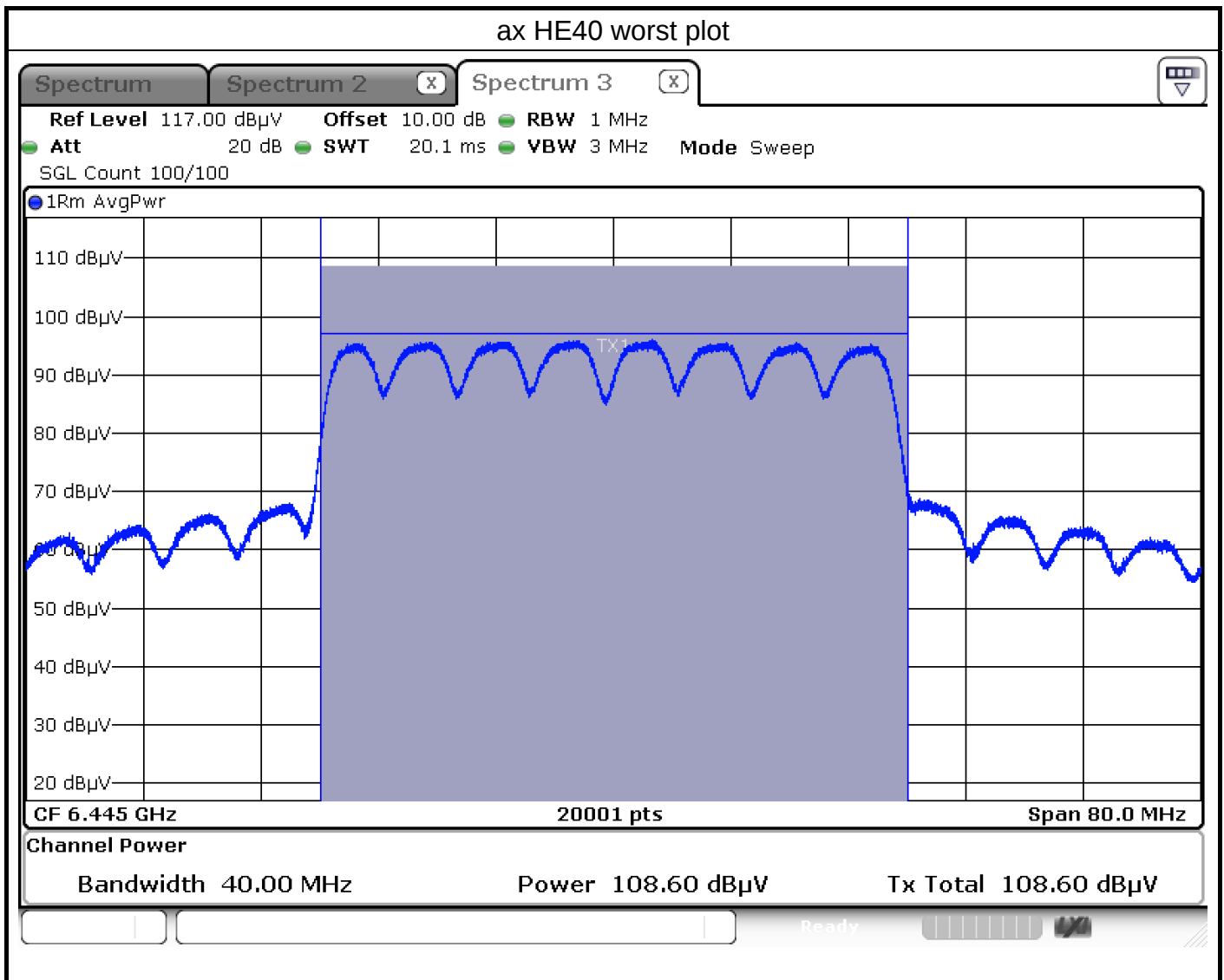
EIRP(dBm) = Final Level(dBuV/m) - 95.2

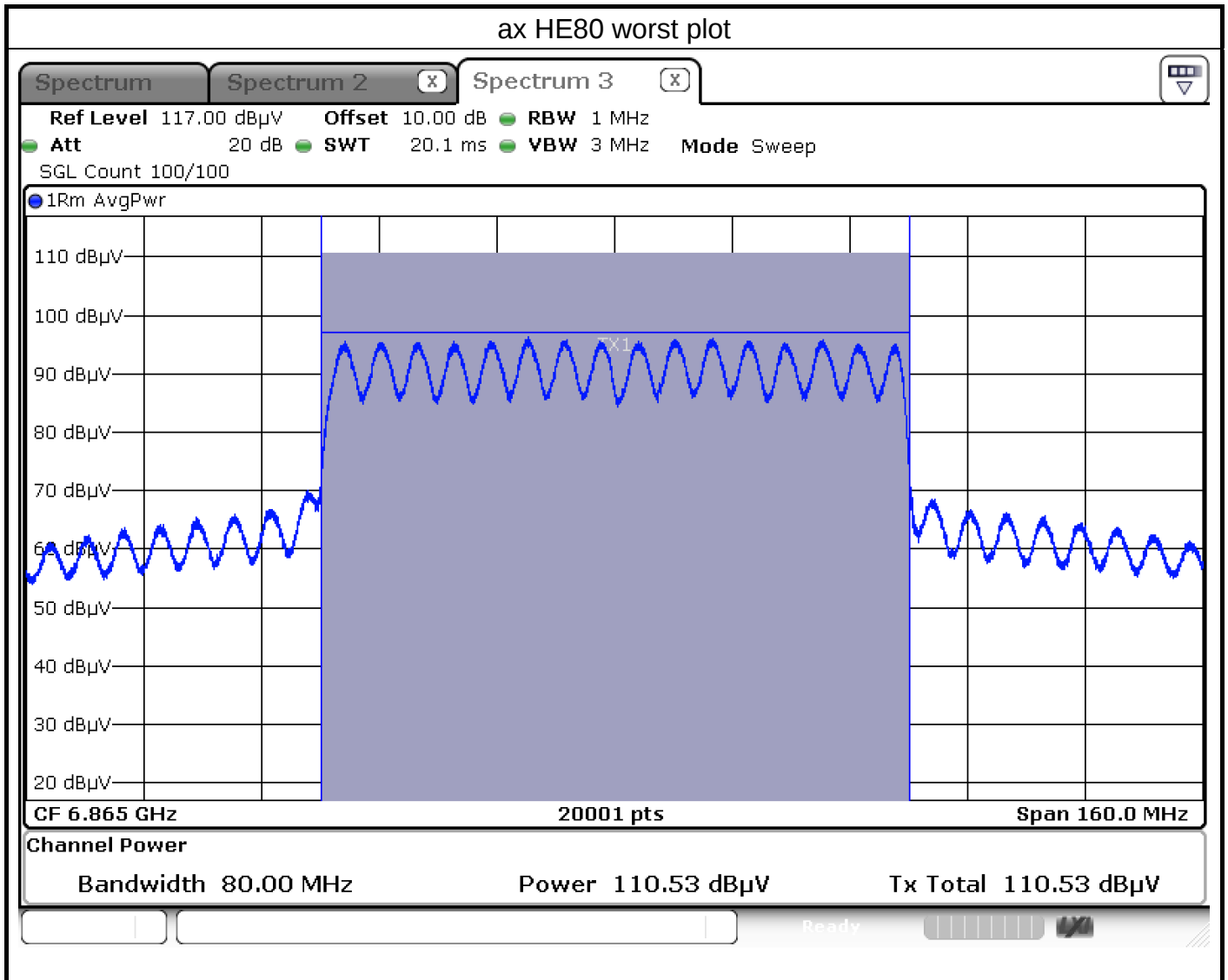
Final Level(dBuV/m) = Read Level (dBuV) + Path Loss(dB/m) + DT Factor(dB)

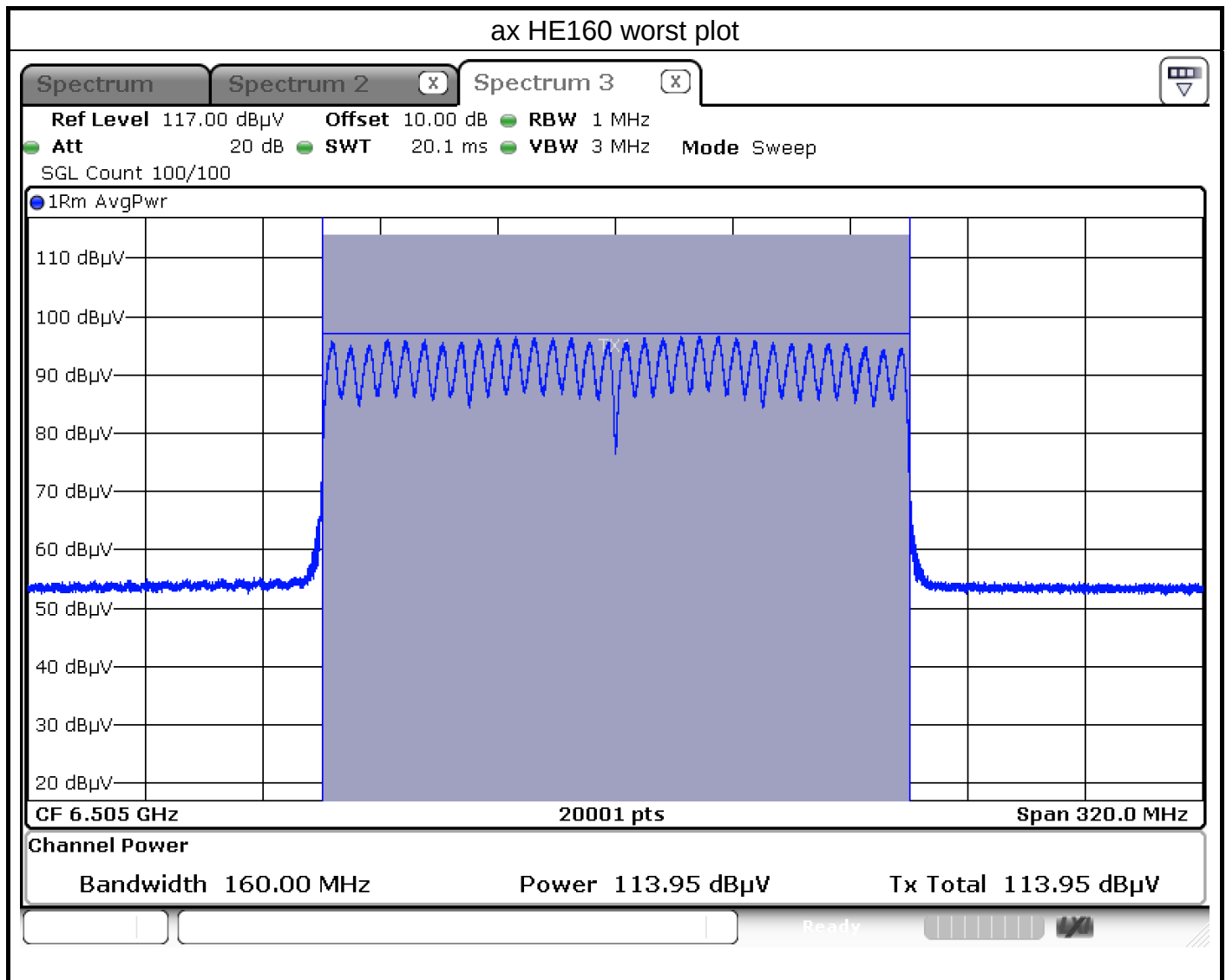
Path Loss = Antenna Factor(dBuV/m) + Cable Loss(dB) - Preamp Factor(dB)











Beamforming mode

Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE20	6115	33	108.48	1.65	0.10	110.23	15.03	30.00	Pass
ax HE20	6255	61	108.05	2.28	0.10	110.43	15.23	30.00	Pass
ax HE20	6415	93	106.87	3.1	0.10	110.07	14.87	30.00	Pass
ax HE20	6435	97	107.01	3.15	0.10	110.26	15.06	30.00	Pass
ax HE20	6475	105	106.64	3.35	0.10	110.09	14.89	30.00	Pass
ax HE20	6515	113	106.54	3.56	0.10	110.20	15.00	30.00	Pass
ax HE20	6535	117	106.20	3.64	0.10	109.94	14.74	30.00	Pass
ax HE20	6715	153	105.89	3.65	0.10	109.64	14.44	30.00	Pass
ax HE20	6855	181	105.85	4.12	0.10	110.07	14.87	30.00	Pass
ax HE20	6875	185	105.76	4.23	0.10	110.09	14.89	30.00	Pass
ax HE20	6895	189	106.31	4.35	0.10	110.76	15.56	30.00	Pass
ax HE20	7015	213	104.95	5.05	0.10	110.10	14.90	30.00	Pass
ax HE20	7095	229	104.48	5.47	0.10	110.05	14.85	30.00	Pass

Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE40	6125	35	111.26	1.69	0.10	113.05	17.85	30.00	Pass
ax HE40	6245	59	110.83	2.24	0.10	113.17	17.97	30.00	Pass
ax HE40	6405	91	110.08	3.08	0.10	113.26	18.06	30.00	Pass
ax HE40	6445	99	109.83	3.17	0.10	113.10	17.90	30.00	Pass
ax HE40	6485	107	109.62	3.42	0.10	113.14	17.94	30.00	Pass
ax HE40	6525	115	109.03	3.6	0.10	112.73	17.53	30.00	Pass
ax HE40	6565	123	109.08	3.69	0.10	112.87	17.67	30.00	Pass
ax HE40	6725	155	108.87	3.63	0.10	112.60	17.40	30.00	Pass
ax HE40	6845	179	108.38	4.05	0.10	112.53	17.33	30.00	Pass
ax HE40	6885	187	108.88	4.3	0.10	113.28	18.08	30.00	Pass
ax HE40	6925	195	108.00	4.53	0.10	112.63	17.43	30.00	Pass
ax HE40	7005	211	107.74	5	0.10	112.84	17.64	30.00	Pass
ax HE40	7085	227	107.07	5.42	0.10	112.59	17.39	30.00	Pass

Note:

EIRP(dBm) = Final Level(dBuV/m) - 95.2

Final Level(dBuV/m) = Read Level (dBuV) + Path Loss(dB/m) + DT Factor(dB)

Path Loss = Antenna Factor(dBuV/m) + Cable Loss(dB) - Preamp Factor(dB)

Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE80	6145	39	113.89	1.78	0.10	115.77	20.57	30.00	Pass
ax HE80	6225	55	113.57	2.14	0.10	115.81	20.61	30.00	Pass
ax HE80	6385	87	112.86	2.94	0.10	115.90	20.70	30.00	Pass
ax HE80	6465	103	112.39	3.29	0.10	115.78	20.58	30.00	Pass
ax HE80	6545	119	111.92	3.67	0.10	115.69	20.49	30.00	Pass
ax HE80	6625	135	111.66	3.68	0.10	115.44	20.24	30.00	Pass
ax HE80	6705	151	111.68	3.66	0.10	115.44	20.24	30.00	Pass
ax HE80	6785	167	111.83	3.72	0.10	115.65	20.45	30.00	Pass
ax HE80	6865	183	111.47	4.17	0.10	115.74	20.54	30.00	Pass
ax HE80	6945	199	110.5	4.65	0.10	115.25	20.05	30.00	Pass
ax HE80	7025	215	110.54	5.1	0.10	115.74	20.54	30.00	Pass

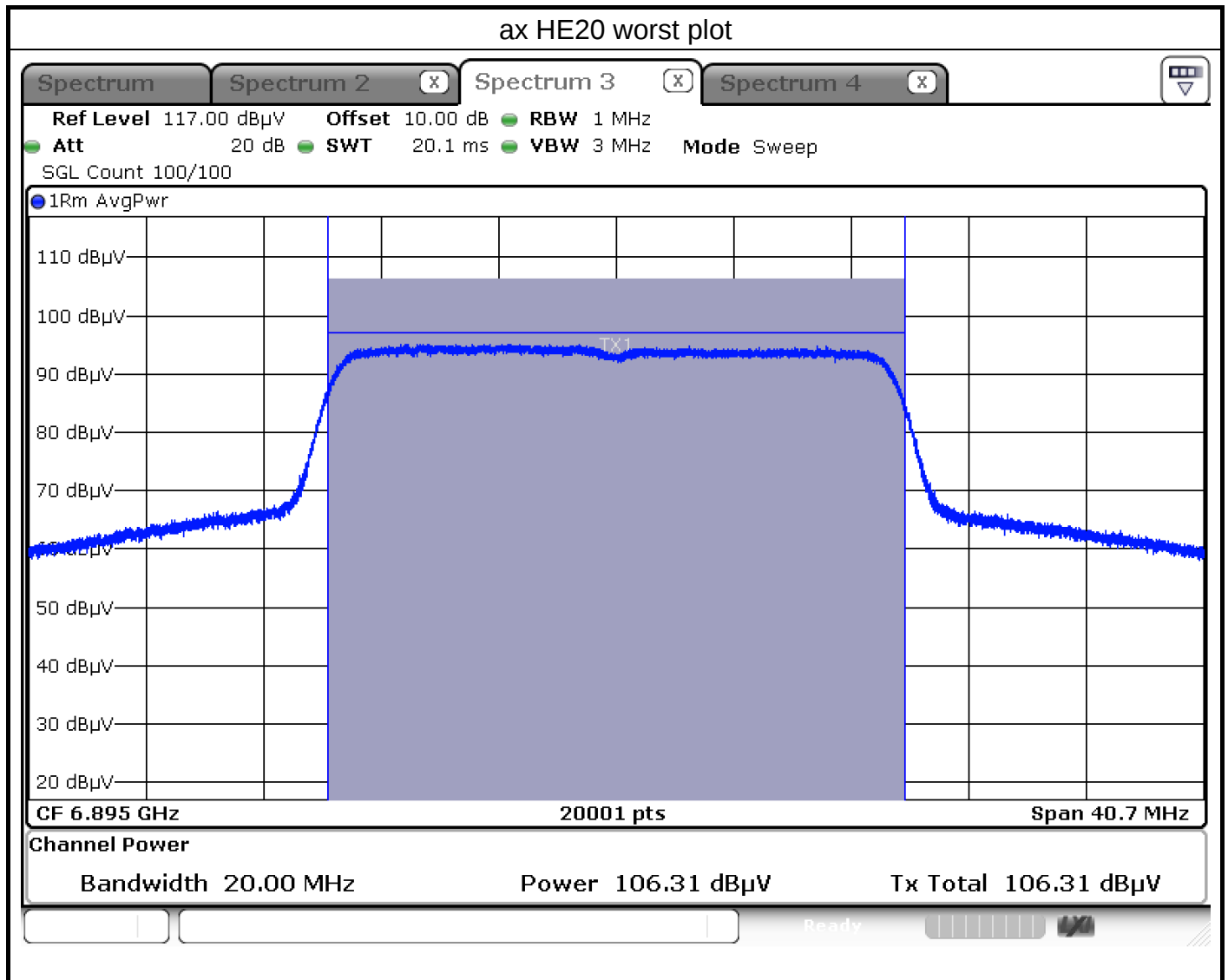
Mode	Freq MHz	CH	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Verdict
ax HE160	6185	47	116.72	1.96	0.08	118.76	23.56	30.00	Pass
ax HE160	6345	79	116.14	2.61	0.08	118.83	23.63	30.00	Pass
ax HE160	6505	111	115.22	3.53	0.08	118.83	23.63	30.00	Pass
ax HE160	6665	143	114.45	3.68	0.08	118.21	23.01	30.00	Pass
ax HE160	6825	175	114.5	3.94	0.08	118.52	23.32	30.00	Pass
ax HE160	6985	207	113.18	4.89	0.08	118.15	22.95	30.00	Pass

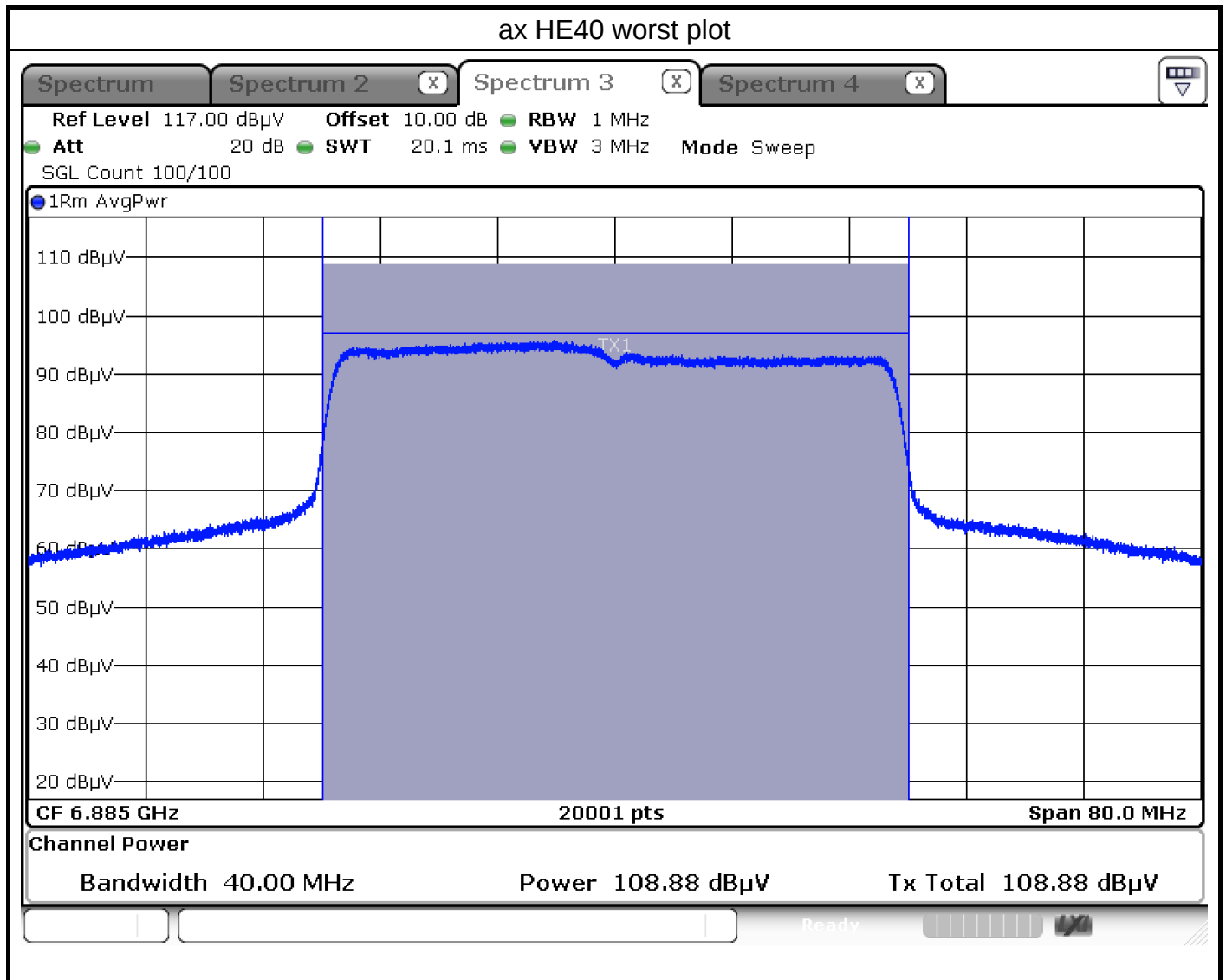
Note:

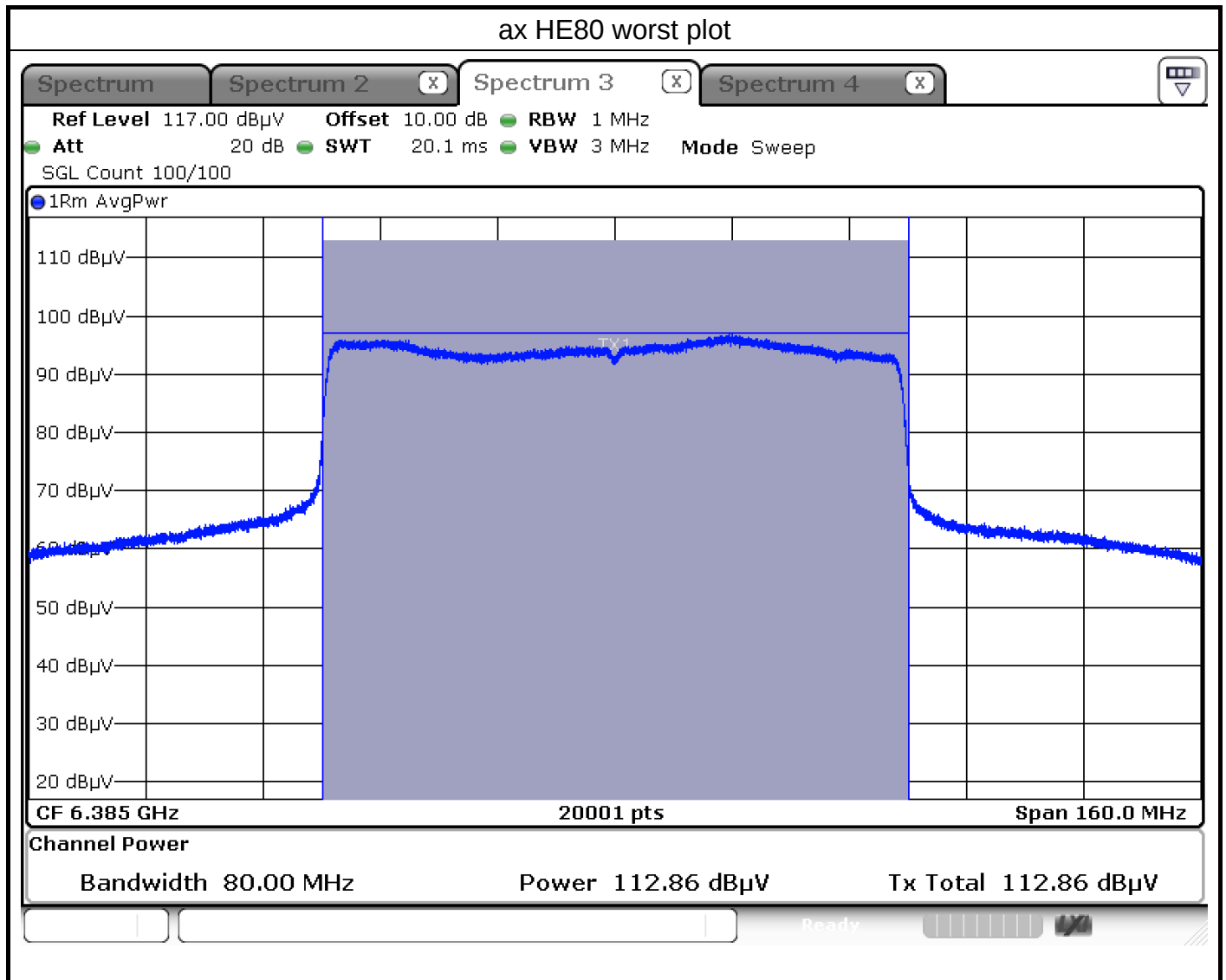
EIRP(dBm) = Final Level(dBuV/m) - 95.2

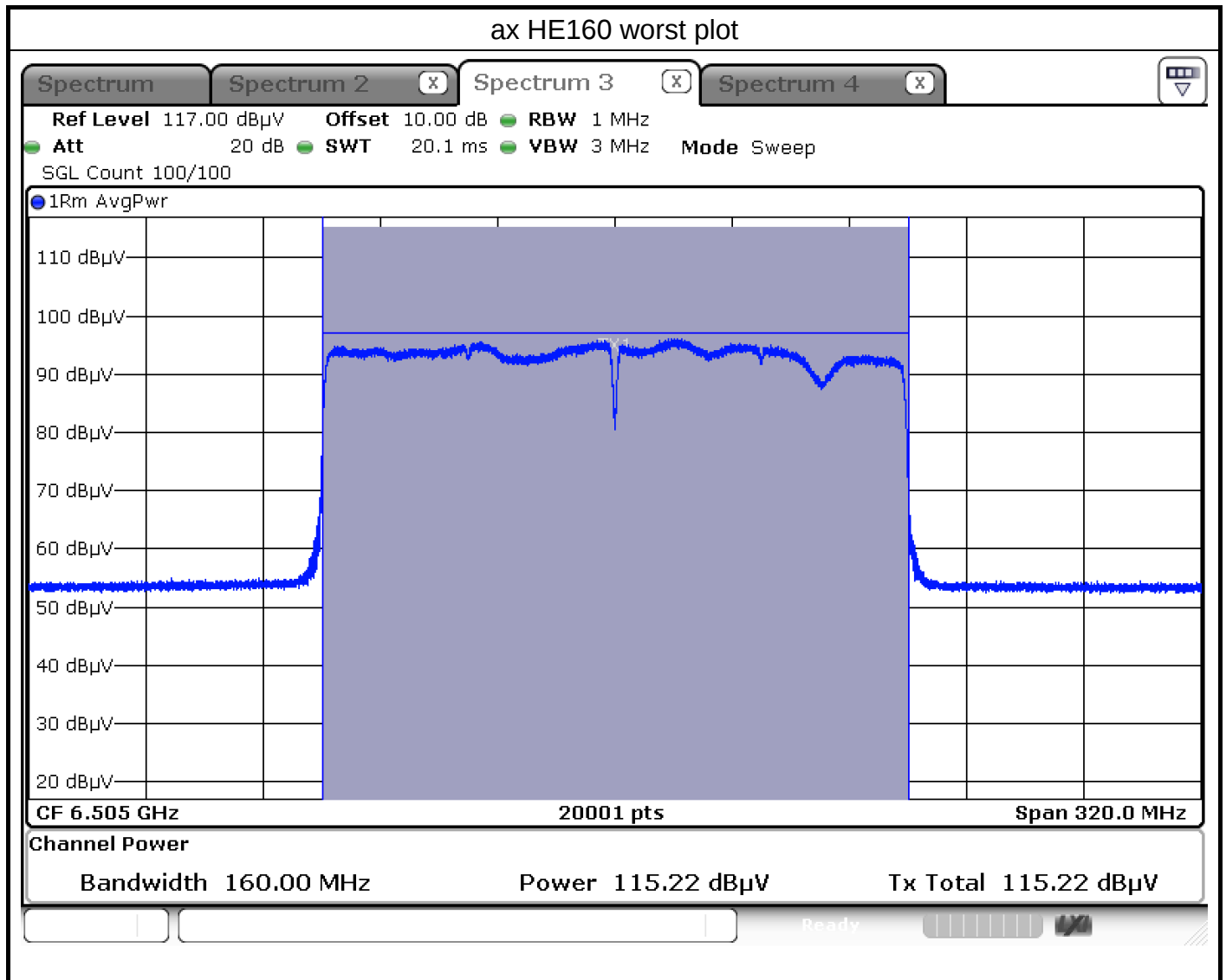
Final Level(dBuV/m) = Read Level (dBuV) + Path Loss(dB/m) + DT Factor(dB)

Path Loss = Antenna Factor(dBuV/m) + Cable Loss(dB) - Preamp Factor(dB)









**Non-beamforming mode**

Mode	Freq MHz	Channel	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	6115	33	98.08	1.65	0.00	99.73	4.53	5.00	Pass
11a	6255	61	97.64	2.28	0.00	99.92	4.72	5.00	Pass
11a	6415	93	96.73	3.10	0.00	99.83	4.63	5.00	Pass
11a	6435	97	96.51	3.15	0.00	99.66	4.46	5.00	Pass
11a	6475	105	96.37	3.35	0.00	99.72	4.52	5.00	Pass
11a	6515	113	96.01	3.56	0.00	99.57	4.37	5.00	Pass
11a	6535	117	96.27	3.64	0.00	99.91	4.71	5.00	Pass
11a	6715	153	96.00	3.65	0.00	99.65	4.45	5.00	Pass
11a	6855	181	95.82	4.12	0.00	99.94	4.74	5.00	Pass
11a	6875	185	95.61	4.23	0.00	99.84	4.64	5.00	Pass
11a	6895	189	95.45	4.35	0.00	99.80	4.60	5.00	Pass
11a	7015	213	94.80	5.05	0.00	99.85	4.65	5.00	Pass
11a	7095	229	94.43	5.47	0.00	99.90	4.70	5.00	Pass

Mode	Freq MHz	Channel	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
ax HE20	6115	33	98.23	1.65	0.00	99.88	4.68	5.00	Pass
ax HE20	6255	61	97.52	2.28	0.00	99.80	4.60	5.00	Pass
ax HE20	6415	93	96.55	3.10	0.00	99.65	4.45	5.00	Pass
ax HE20	6435	97	96.70	3.15	0.00	99.85	4.65	5.00	Pass
ax HE20	6475	105	96.28	3.35	0.00	99.63	4.43	5.00	Pass
ax HE20	6515	113	96.21	3.56	0.00	99.77	4.57	5.00	Pass
ax HE20	6535	117	96.26	3.64	0.00	99.90	4.70	5.00	Pass
ax HE20	6715	153	96.08	3.65	0.00	99.73	4.53	5.00	Pass
ax HE20	6855	181	95.62	4.12	0.00	99.74	4.54	5.00	Pass
ax HE20	6875	185	95.56	4.23	0.00	99.79	4.59	5.00	Pass
ax HE20	6895	189	95.46	4.35	0.00	99.81	4.61	5.00	Pass
ax HE20	7015	213	94.70	5.05	0.00	99.75	4.55	5.00	Pass
ax HE20	7095	229	94.45	5.47	0.00	99.92	4.72	5.00	Pass

Note:

EIRP(dBm) = Final Level(dBuV/m) - 95.2

Final Level(dBuV/m) = Read Level (dBuV) + Path Loss(dB/m) + DT Factor(dB)

Path Loss = Antenna Factor(dBuV/m) + Cable Loss(dB) - Preamp Factor(dB)



Mode	Freq MHz	Channel	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
ax HE40	6125	35	98.11	1.69	0.00	99.80	4.60	5.00	Pass
ax HE40	6245	59	97.81	2.24	0.00	100.05	4.85	5.00	Pass
ax HE40	6405	91	96.75	3.08	0.00	99.83	4.63	5.00	Pass
ax HE40	6445	99	96.79	3.17	0.00	99.96	4.76	5.00	Pass
ax HE40	6485	107	96.24	3.42	0.00	99.66	4.46	5.00	Pass
ax HE40	6525	115	95.93	3.60	0.00	99.53	4.33	5.00	Pass
ax HE40	6565	123	95.99	3.69	0.00	99.68	4.48	5.00	Pass
ax HE40	6725	155	96.19	3.63	0.00	99.82	4.62	5.00	Pass
ax HE40	6845	179	95.88	4.05	0.00	99.93	4.73	5.00	Pass
ax HE40	6885	187	95.38	4.30	0.00	99.68	4.48	5.00	Pass
ax HE40	6925	195	95.04	4.53	0.00	99.57	4.37	5.00	Pass
ax HE40	7005	211	94.54	5.00	0.00	99.54	4.34	5.00	Pass
ax HE40	7085	227	94.13	5.42	0.00	99.55	4.35	5.00	Pass

Mode	Freq MHz	Channel	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
ax HE80	6145	39	97.87	1.78	0.00	99.65	4.45	5.00	Pass
ax HE80	6225	55	97.46	2.14	0.00	99.60	4.40	5.00	Pass
ax HE80	6385	87	96.71	2.94	0.00	99.65	4.45	5.00	Pass
ax HE80	6465	103	96.33	3.29	0.00	99.62	4.42	5.00	Pass
ax HE80	6545	119	95.93	3.67	0.00	99.60	4.40	5.00	Pass
ax HE80	6625	135	95.94	3.68	0.00	99.62	4.42	5.00	Pass
ax HE80	6705	151	96.01	3.66	0.00	99.67	4.47	5.00	Pass
ax HE80	6785	167	96.16	3.72	0.00	99.88	4.68	5.00	Pass
ax HE80	6865	183	95.71	4.17	0.00	99.88	4.68	5.00	Pass
ax HE80	6945	199	94.95	4.65	0.00	99.60	4.40	5.00	Pass
ax HE80	7025	215	94.73	5.10	0.00	99.83	4.63	5.00	Pass

Mode	Freq MHz	Channel	Read Level (dBuV)	Path loss (dB/m)	DT Factor (dB)	Final Level (dBuV/m)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
ax HE160	6185	47	97.94	1.96	0.00	99.90	4.70	5.00	Pass
ax HE160	6345	79	97.08	2.61	0.00	99.69	4.49	5.00	Pass
ax HE160	6505	111	96.39	3.53	0.00	99.92	4.72	5.00	Pass
ax HE160	6665	143	96.12	3.68	0.00	99.80	4.60	5.00	Pass
ax HE160	6825	175	95.86	3.94	0.00	99.80	4.60	5.00	Pass
ax HE160	6985	207	94.98	4.89	0.00	99.87	4.67	5.00	Pass

Note:

EIRP(dBm) = Final Level(dBuV/m) - 95.2

Final Level(dBuV/m) = Read Level (dBuV) + Path Loss(dB/m) + DT Factor(dB)

Path Loss = Antenna Factor(dBuV/m) + Cable Loss(dB) - Preamp Factor(dB)

