

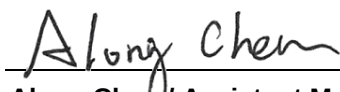
FCC Test Report

FCC ID : 2AAS9-MI12
Equipment : Wi-Fi 6 AX6000 Dual-Radio Indoor Router
Model No. : MI12
Brand Name : PRISM
Applicant : BROWAN COMMUNICATIONS INCORPORATION
Address : No.15-1, Zhonghua Rd., Hsinchu Industrial Park,
Hukou Hsinchu Hsien Taiwan 303
Standard : 47 CFR FCC Part 15.407
Received Date : Mar. 17, 2023
Tested Date : Mar. 23 ~ May 02, 2023

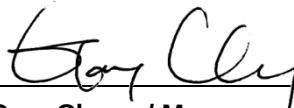
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Appendix A. Emission Bandwidth

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Release Record

Report No.	Version	Description	Issued Date
FR331702AN	Rev. 01	Initial issue	May 17, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.476MHz 37.04 (Margin -9.37dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 53.81 (Margin -0.19dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 5150-5250MHz: 27.75 5725-5850MHz: 29.32 Beamforming mode 5150-5250MHz: 21.73 5725-5850MHz: 23.26	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-31
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-31
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	4	MCS 0-9
5150-5250 5725-5850	ax (HE20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-11
5150-5250 5725-5850	ax (HE40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-11
5150-5250 5725-5850	ax (HE80)	5210 5775	42 [1] 155 [1]	4	MCS 0-11

Note 1: BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.
Note 2: 11n/ac/ax supports beamforming function.

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
					2400~2483.5	5150~5250	5725~5850
Ant 1	LYNwave	AEX22M-222AA1-00	PIFA	UFL	2.71	2.13	2.9
Ant 2	LYNwave	AEX22M-222AA2-00	PIFA	UFL	2.71	2.13	2.9
Ant 3	LYNwave	AEX22M-222AA4-00	PIFA	UFL	2.71	2.13	2.9
Ant 4	LYNwave	AEX22M-222AA3-00	PIFA	UFL	2.71	2.13	2.9

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	56Vdc from POE
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Note: The above power supply is not bundled in market.

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	MOUNTING-BRACKET	--

1.1.5 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
149	5745	802.11ac VHT80 / ax HE80	
153	5765	42	5210
157	5785	155	5775
161	5805	-	-
165	5825	-	-

1.1.6 Test Tool and Duty Cycle

Test Tool	QATool, Version: UIv2.88_DLLv6.93_ap_2022.01.04(V14)c		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	98.97%	0.04
	ax HE20	98.51%	0.07
	ax HE40	95.97%	0.18
	ax HE80	91.04%	0.41

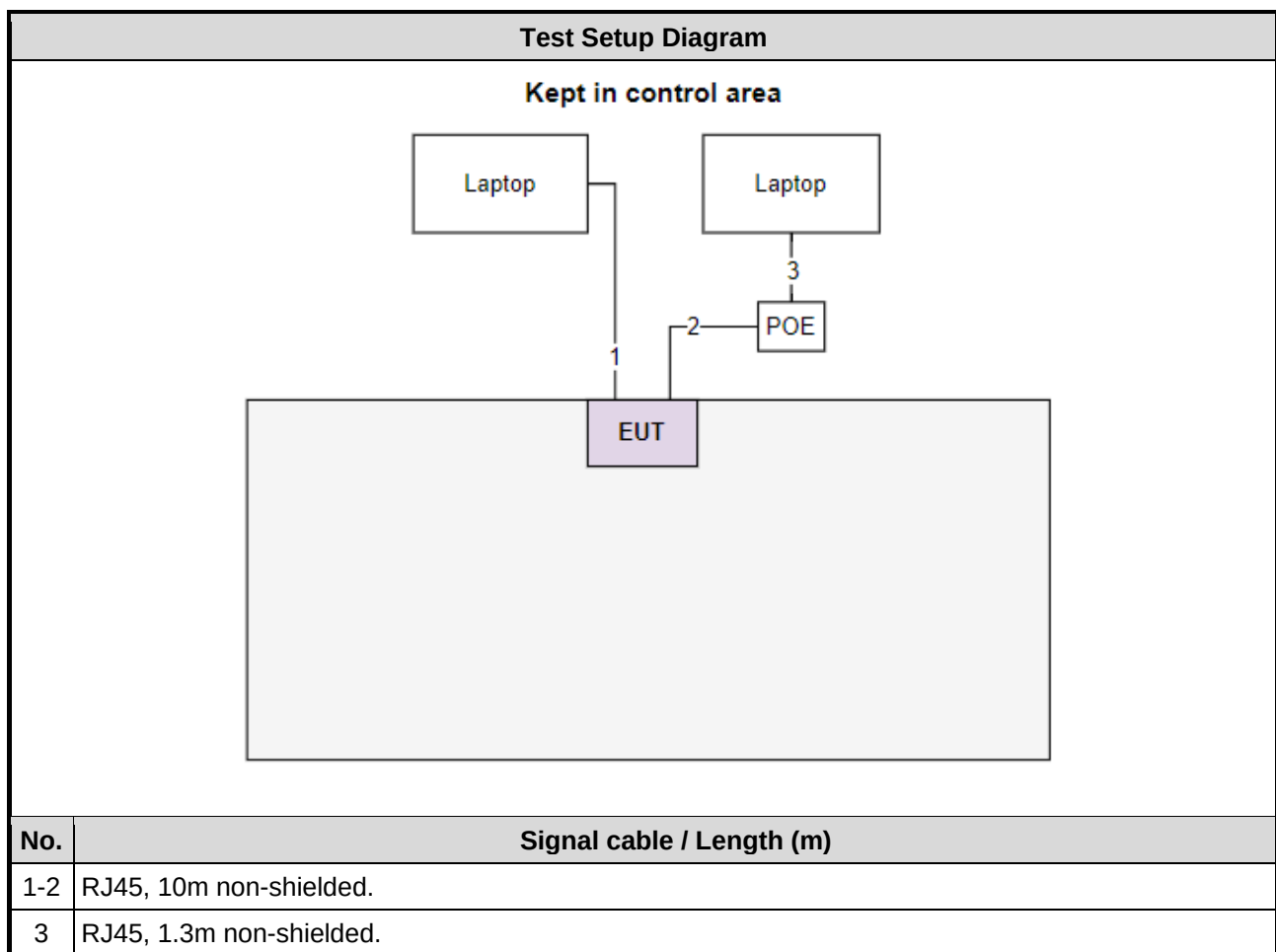
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	16.5
11a	5200	17
11a	5240	17
11a	5745	20
11a	5785	20
11a	5825	20
ax HE20	5180	16.5
ax HE20	5200	18
ax HE20	5240	18.5
ax HE20	5745	20.5
ax HE20	5785	20.5
ax HE20	5825	20.5
ax HE40	5190	14
ax HE40	5230	16.5
ax HE40	5755	18
ax HE40	5795	19.5
ax HE80	5210	8.5
ax HE80	5775	15.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 5400	DoC	---
2	Laptop	DELL	Latitude E5470	DoC	---
3	POE	DELTA	ADH-45AR B	---	I/P: 100-240V~, 1.5A, 50-60Hz O/P: 56Vdc, 0.805A, 45.08W

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	May 02, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101295	Jan. 31, 2023	Jan. 30, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 03, 2023	Jan. 02, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	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 chamber1 / (03CH01-WS)				
Tested Date	Mar. 23 ~ Apr. 21, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 25, 2022	Nov. 24, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 04, 2022	Oct. 03, 2023
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	Apr. 06 ~ Apr. 12, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
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	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

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

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

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

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

2.2 The Worst Test Modes and Channel Details

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emission	ax HE20	5240	MCS 0	---
Unwanted Emissions ≤1GHz	ax HE20	5240	MCS 0	---
Unwanted Emissions >1GHz	11a	5180 / 5200 / 5240	6 Mbps	---
Conducted Output Power	ax HE20	5180 / 5200 / 5240	MCS 0	
Emission Bandwidth	ax HE40	5190 / 5230	MCS 0	
Power Spectral Density	ax HE80	5210	MCS 0	
Frequency Stability	Un-modulation	5200	---	---
Beamforming mode				
Conducted Output Power	ax HE20 ax HE40 ax HE80	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 MCS 0	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emission	11a	5785	6 Mbps	---
Unwanted Emissions ≤1GHz	11a	5785	6 Mbps	---
Unwanted Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	---
Conducted Output Power	ax HE20	5745 / 5785 / 5825	MCS 0	
Emission Bandwidth	ax HE40	5755 / 5795	MCS 0	
Power Spectral Density	ax HE80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
Beamforming mode				
Conducted Output Power	ax HE20 ax HE40 ax HE80	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 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.				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

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

3.1.2 Test Procedures

26dB Bandwidth

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

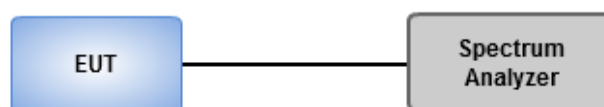
Occupied Bandwidth

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

6dB Bandwidth

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

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23-25°C / 63-64%	Tested By	Akun Chung
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

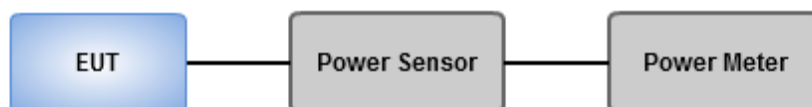
Frequency Band (MHz)	Limit
☒ 5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.	

3.2.2 Test Procedures

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

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23-25°C / 63-64%	Tested By	Akun Chung
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☒	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz

Duty cycle $\geq$ 98 %

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

Duty cycle $<$ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times$ (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.

For 5725 ~ 5850 MHz

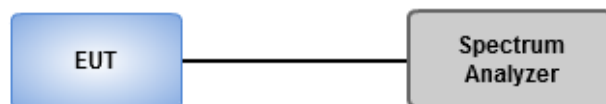
Duty cycle $\geq$ 98 %

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

Duty cycle $<$ 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times$ (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.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	23-25°C / 63-64%	Tested By	Akun Chung
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

3.4.2 Test Procedures

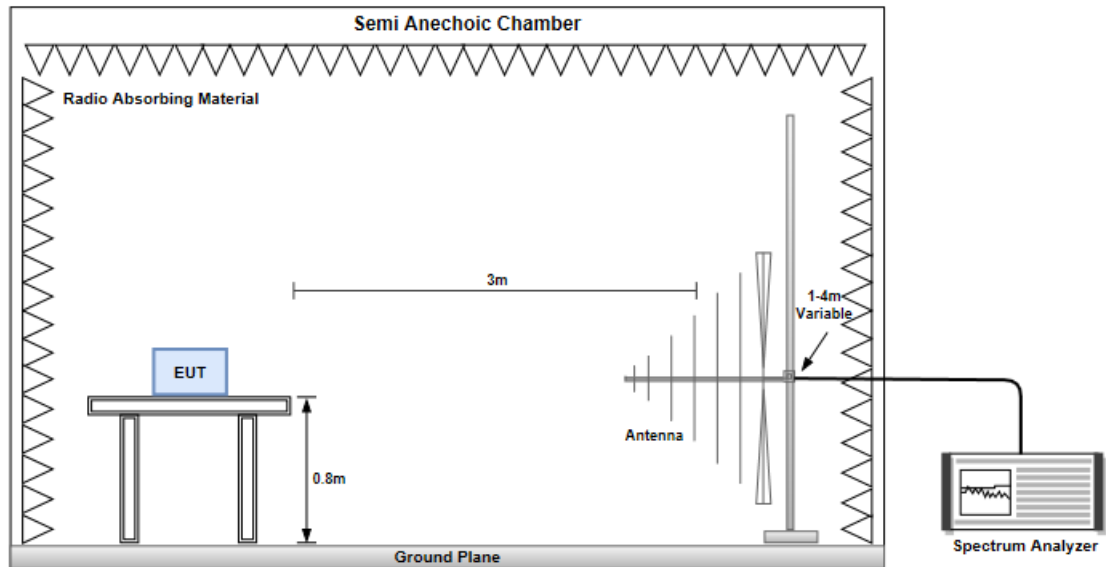
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

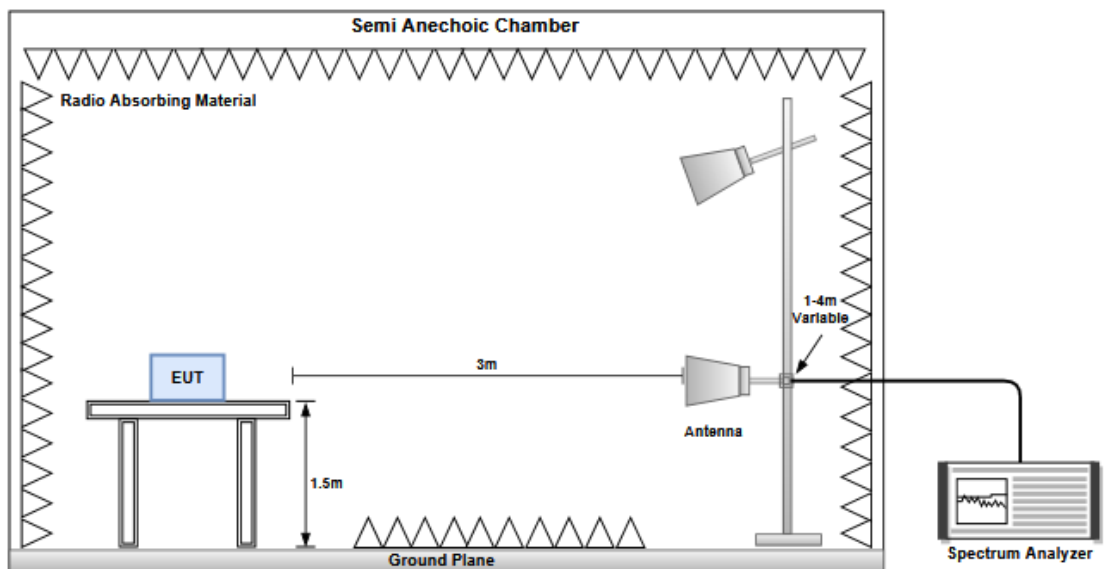
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

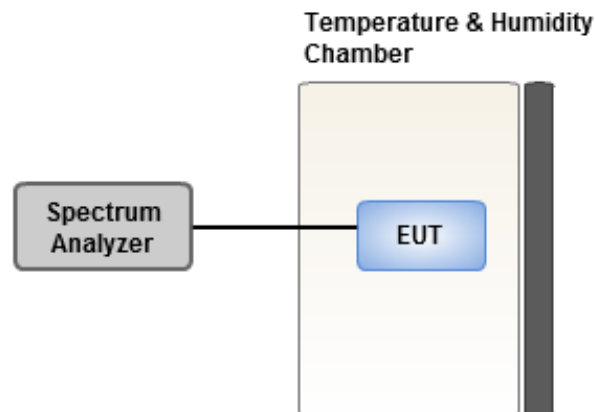
3.5.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	23-25°C / 63-64%	Tested By	Akun Chung
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

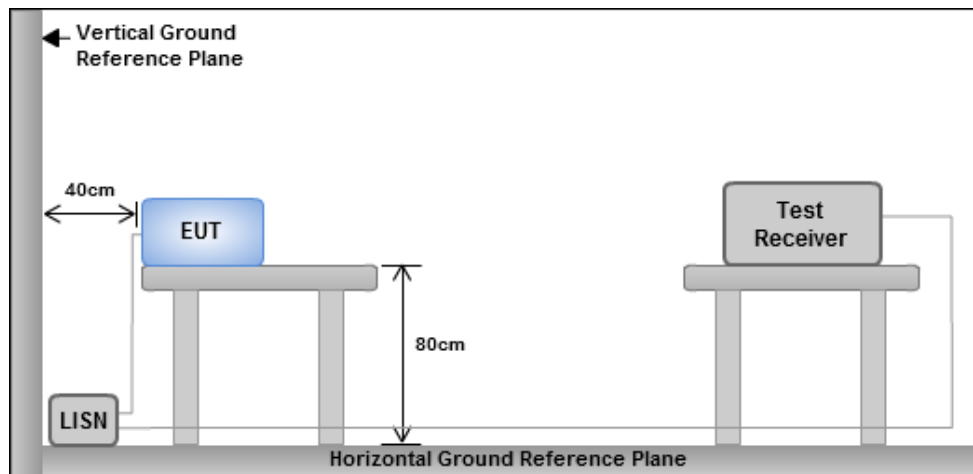
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

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

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	36.63M	17.239M	17M2D1D	27.94M	16.844M
802.11ax HEW20_Nss1,(MCS0)_4TX	47.19M	19.39M	19M4D1D	27.115M	19.04M
802.11ax HEW40_Nss1,(MCS0)_4TX	47.52M	37.781M	37M8D1D	39.27M	37.631M
802.11ax HEW80_Nss1,(MCS0)_4TX	96.888M	77.241M	77M2D1D	80.52M	77.001M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.368M	28.076M	28M1D1D	16.302M	22.666M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.206M	28.066M	28M1D1D	18.612M	22.459M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.356M	48.636M	48M6D1D	32.604M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	74.976M	77.481M	77M5D1D	73.92M	77.121M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	28.38M	16.866M	29.04M	16.866M	30.8M	16.932M	27.94M	16.866M
5200MHz	Pass	Inf	30.69M	16.844M	31.9M	16.888M	35.475M	17.129M	29.81M	16.866M
5240MHz	Pass	Inf	31.735M	16.932M	33.22M	16.954M	36.63M	17.239M	31.845M	16.888M
5745MHz	Pass	500k	16.368M	25.067M	16.302M	22.666M	16.368M	26.519M	16.368M	23.537M
5785MHz	Pass	500k	16.302M	25.991M	16.368M	23.511M	16.302M	28.076M	16.368M	24.645M
5825MHz	Pass	500k	16.368M	26.097M	16.368M	24.118M	16.368M	26.44M	16.302M	23.959M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	27.115M	19.19M	27.885M	19.19M	33.77M	19.165M	30.195M	19.14M
5200MHz	Pass	Inf	34.87M	19.19M	31.735M	19.215M	41.085M	19.39M	35.475M	19.24M
5240MHz	Pass	Inf	42.35M	19.04M	40.865M	19.14M	47.19M	19.365M	43.175M	19.09M
5745MHz	Pass	500k	19.008M	24.138M	18.942M	22.459M	19.206M	26.207M	19.008M	23.898M
5785MHz	Pass	500k	19.074M	25.067M	18.81M	23.328M	18.612M	28.066M	18.678M	24.888M
5825MHz	Pass	500k	18.942M	24.348M	18.942M	23.148M	19.008M	25.397M	19.008M	23.358M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	46.068M	37.721M	42.504M	37.721M	46.596M	37.661M	47.52M	37.721M
5230MHz	Pass	Inf	39.27M	37.631M	39.38M	37.681M	42.9M	37.781M	40.26M	37.681M
5755MHz	Pass	500k	35.772M	37.961M	37.356M	37.781M	34.98M	38.021M	36.168M	37.841M
5795MHz	Pass	500k	36.168M	44.378M	32.604M	38.741M	34.98M	48.636M	37.356M	38.861M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.52M	77.241M	88.44M	77.121M	96.888M	77.001M	91.08M	77.121M
5775MHz	Pass	500k	74.976M	77.481M	74.976M	77.121M	74.976M	77.481M	73.92M	77.361M

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

Port X-OBW = Port X 99% occupied bandwidth

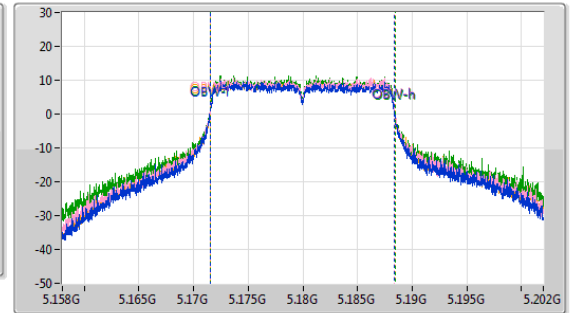
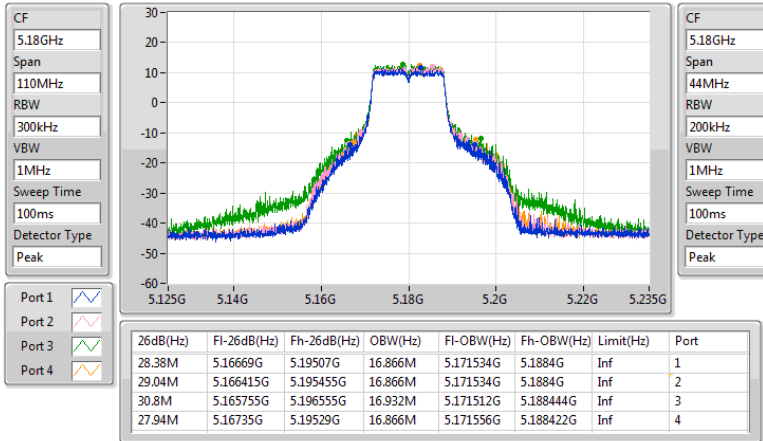


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

30/03/2023

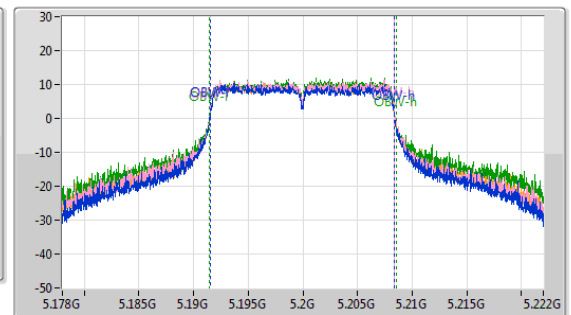
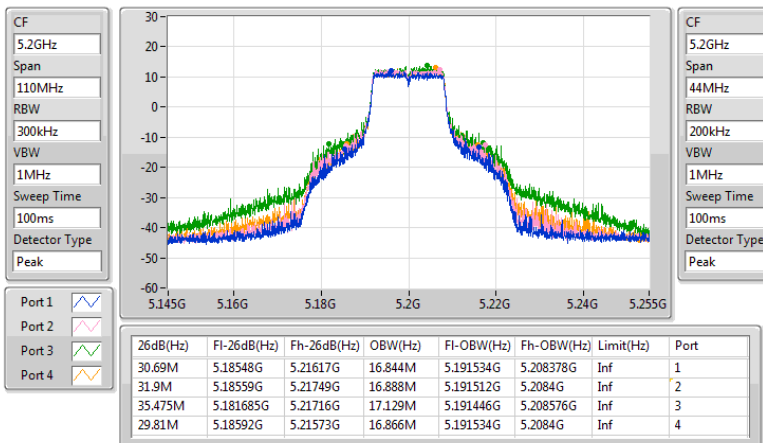


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

30/03/2023



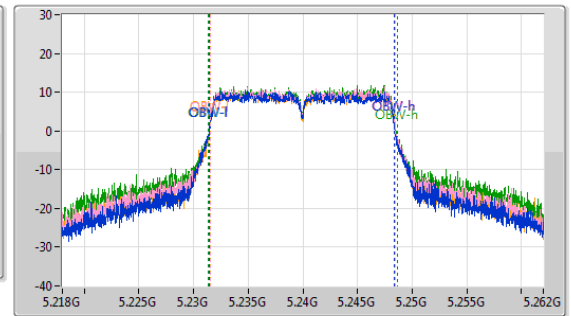
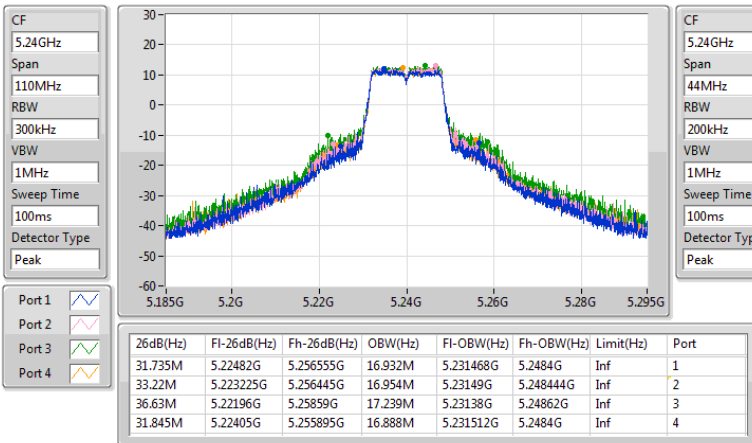


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

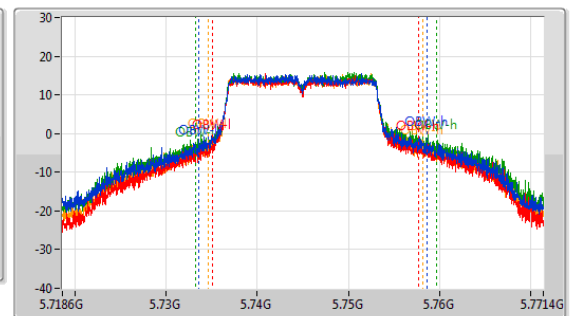
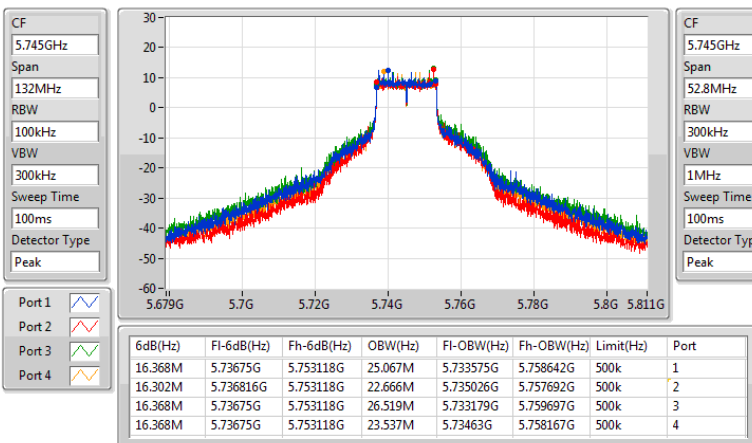
30/03/2023



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz



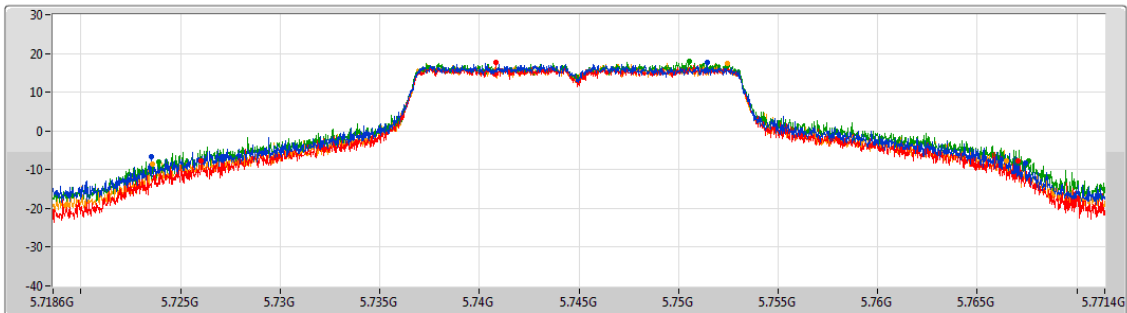


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

CF
5.745GHz
Span
52.8MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



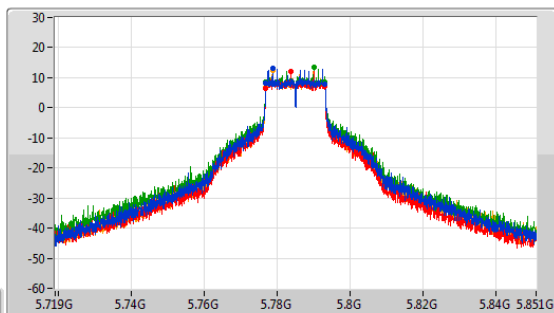
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
43.903M	5.72351G	5.767414G	Inf	1
41.026M	5.726045G	5.76707G	Inf	2
43.666M	5.723906G	5.767572G	Inf	3
42.9M	5.72359G	5.76649G	Inf	4

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

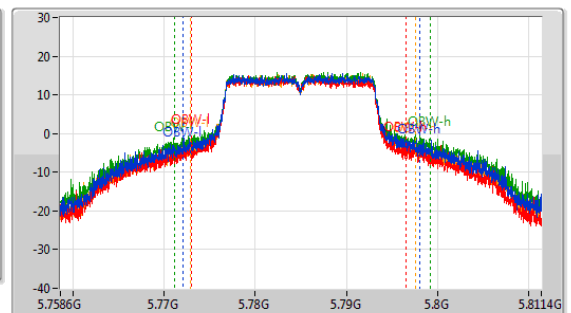
5785MHz

CF
5.785GHz
Span
132MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.302M	5.776816G	5.793118G	25.991M	5.772097G	5.798088G	500k	1
16.368M	5.77675G	5.793118G	23.511M	5.773047G	5.796557G	500k	2
16.302M	5.776816G	5.793118G	28.076M	5.771121G	5.799196G	500k	3
16.368M	5.77675G	5.793118G	24.645M	5.772915G	5.79756G	500k	4

CF
5.785GHz
Span
52.8MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



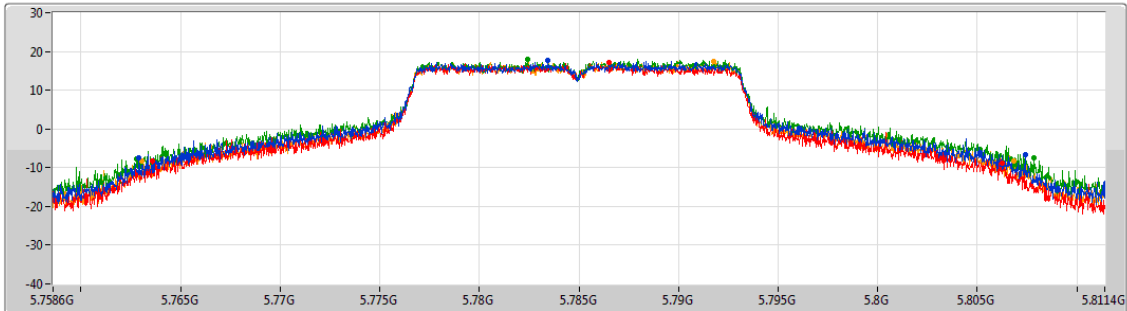


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

CF
5.785GHz
Span
52.8MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



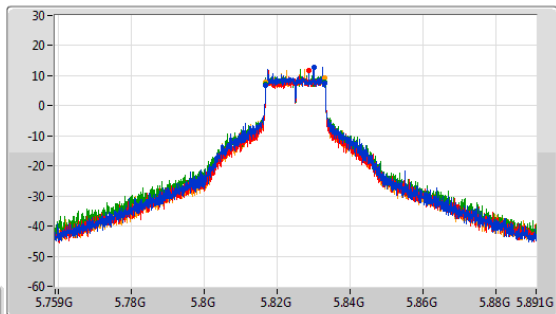
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
44.51M	5.762903G	5.807414G	Inf	1
42.715M	5.763563G	5.806278G	Inf	2
45.038M	5.762798G	5.807836G	Inf	3
43.798M	5.763062G	5.806859G	Inf	4

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

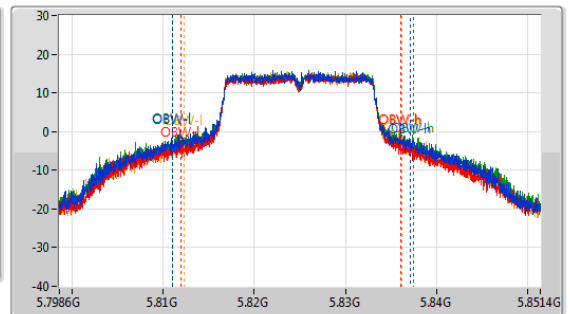
5825MHz

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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.368M	5.81675G	5.833118G	26.097M	5.811068G	5.837164G	500k	1
16.368M	5.81675G	5.833118G	24.118M	5.811939G	5.836056G	500k	2
16.368M	5.81675G	5.833118G	26.44M	5.811041G	5.837481G	500k	3
16.302M	5.816816G	5.833118G	23.959M	5.812282G	5.836241G	500k	4

CF
5.825GHz
Span
52.8MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



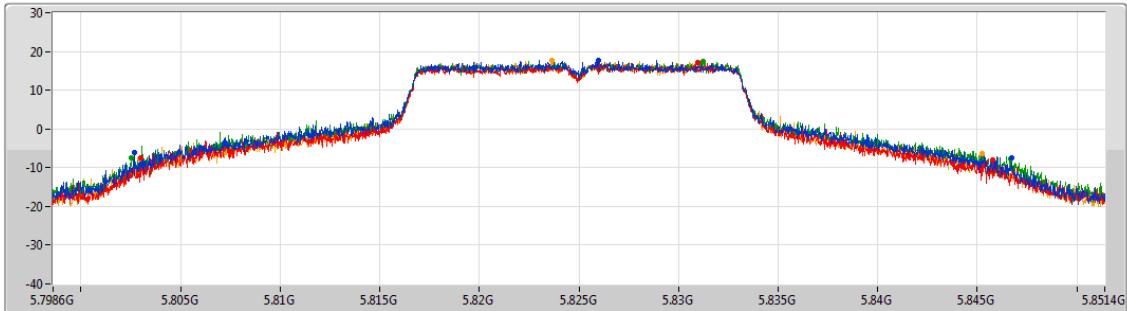


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

CF
5.825GHz
Span
52.8MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
44.088M	5.802666G	5.846754G	Inf	1
42.742M	5.803009G	5.84575G	Inf	2
44.167M	5.802507G	5.846674G	Inf	3
42.293M	5.802956G	5.845249G	Inf	4

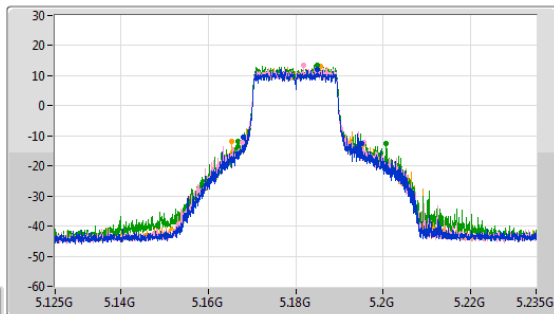
5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

EBW

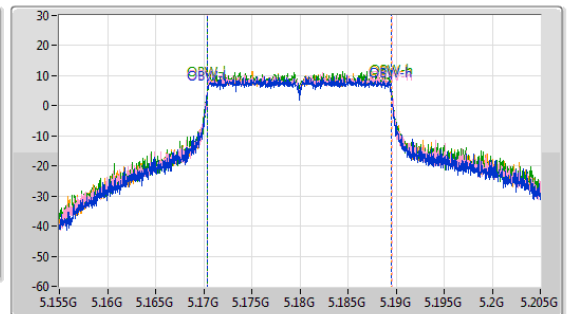
5180MHz

30/03/2023

CF
5.18GHz
Span
110MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.115M	5.167955G	5.19507G	19.19M	5.170355G	5.189545G	Inf	1
27.885M	5.16768G	5.195565G	19.19M	5.17038G	5.18957G	Inf	2
33.77M	5.1668G	5.20057G	19.165M	5.170405G	5.18957G	Inf	3
30.195M	5.16526G	5.195455G	19.14M	5.170405G	5.189545G	Inf	4

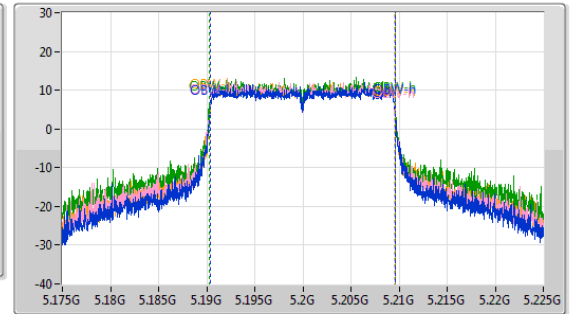
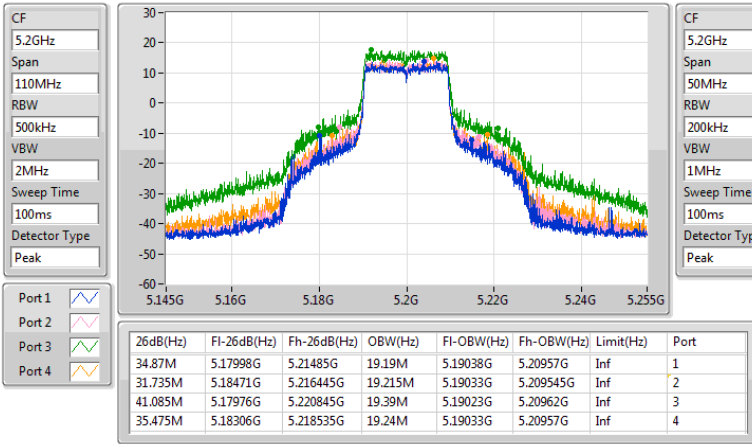


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

30/03/2023

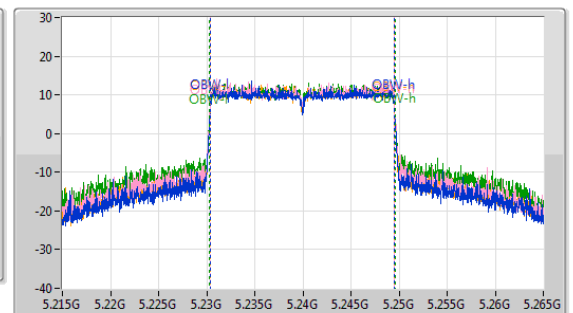
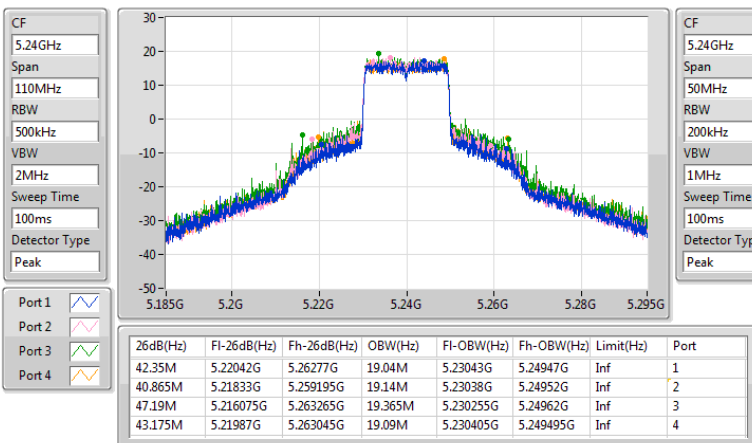


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

30/03/2023

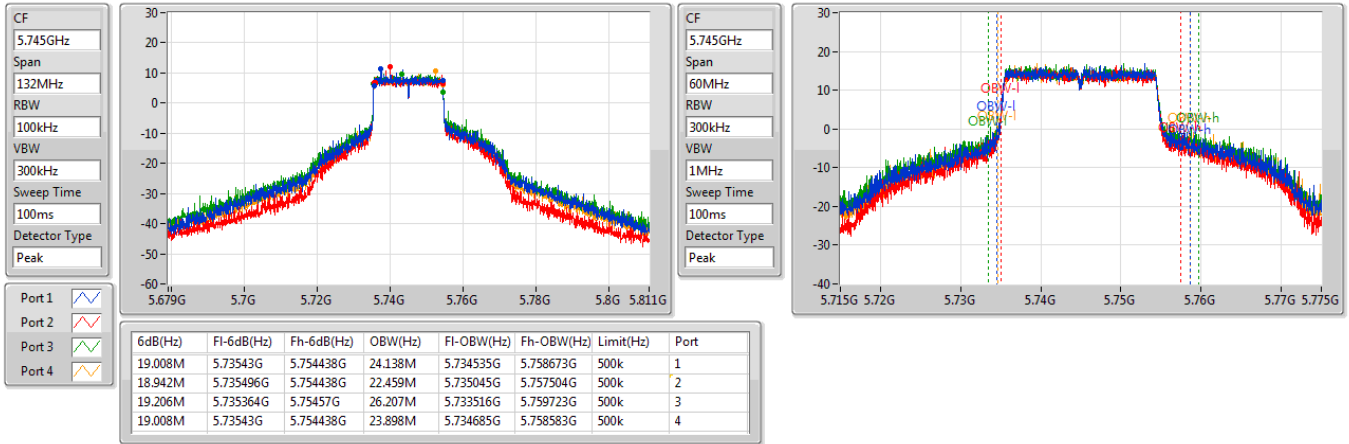




5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

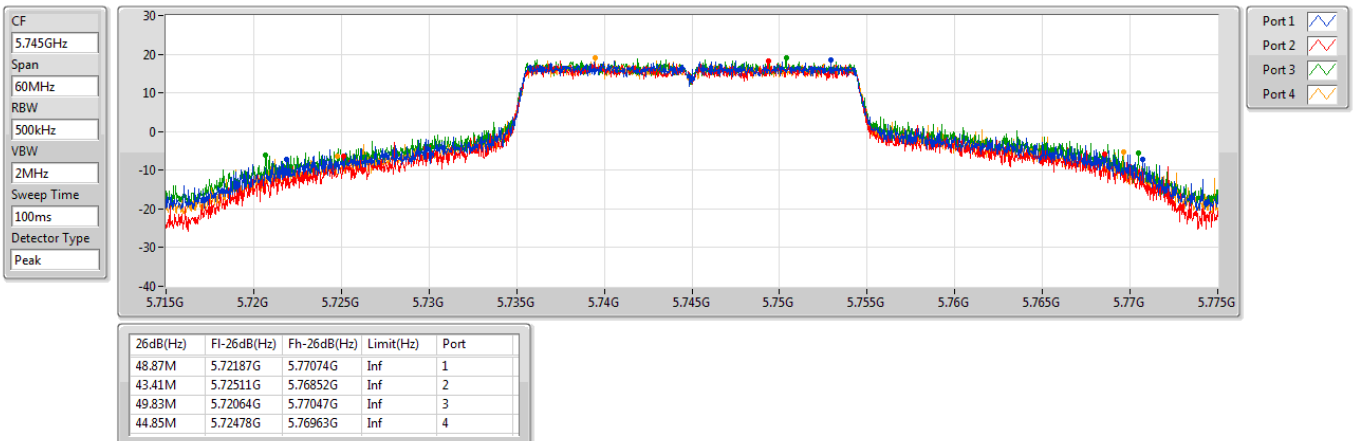
5745MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

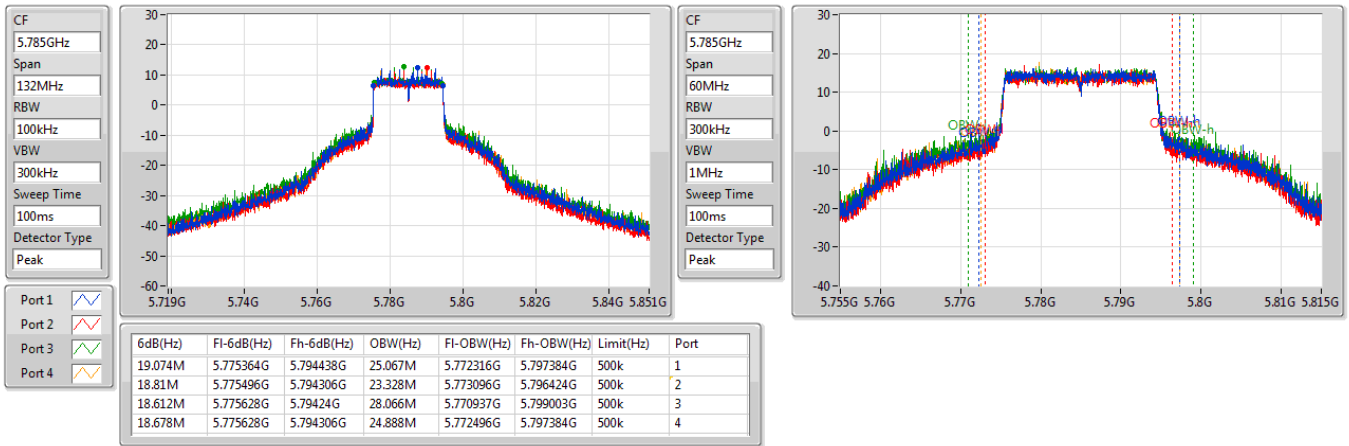




5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

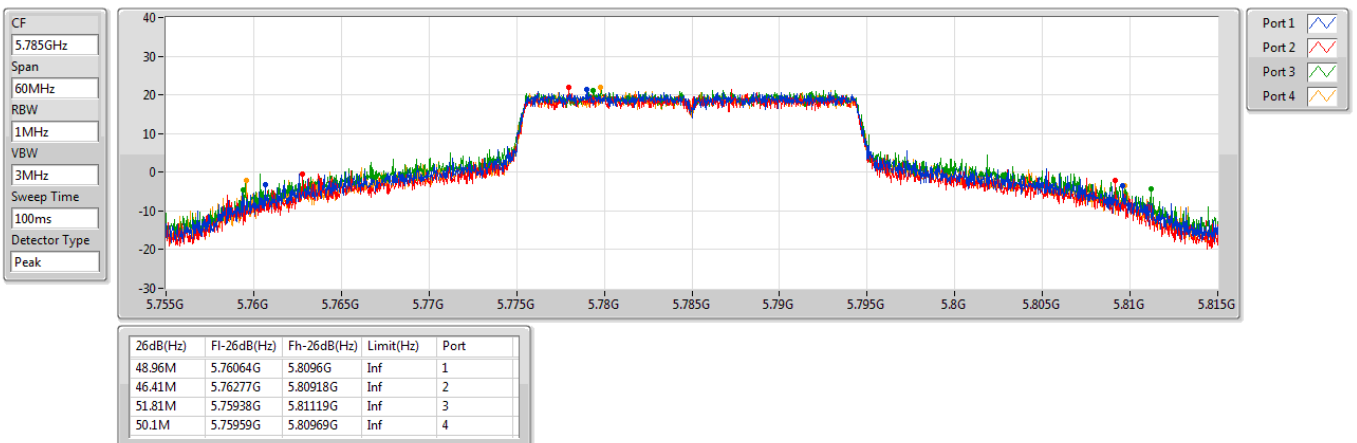
5785MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

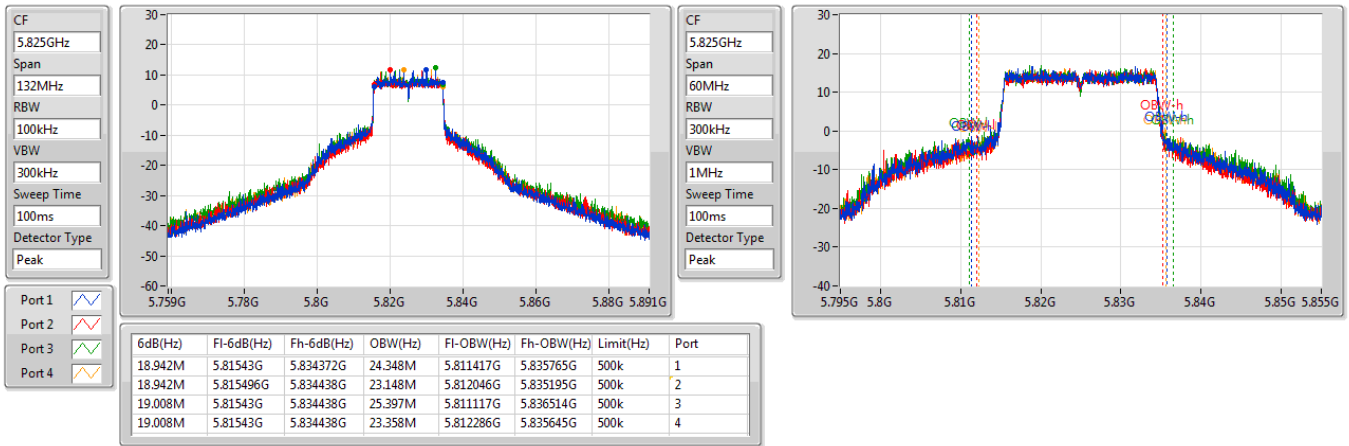




5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

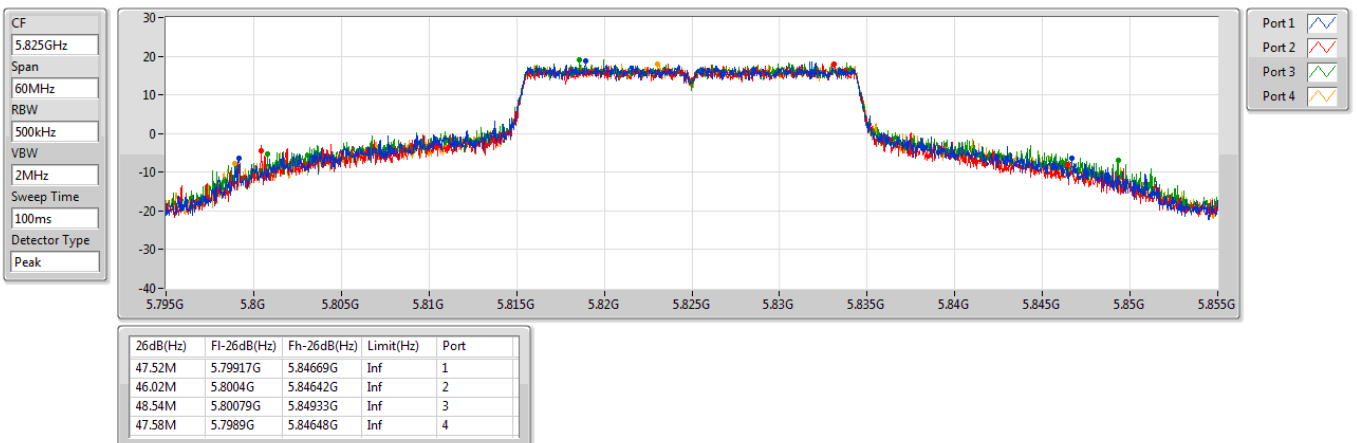
5825MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

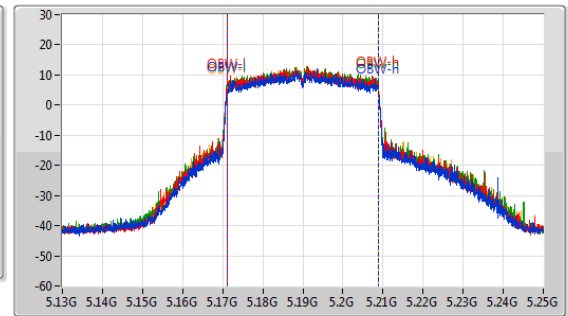
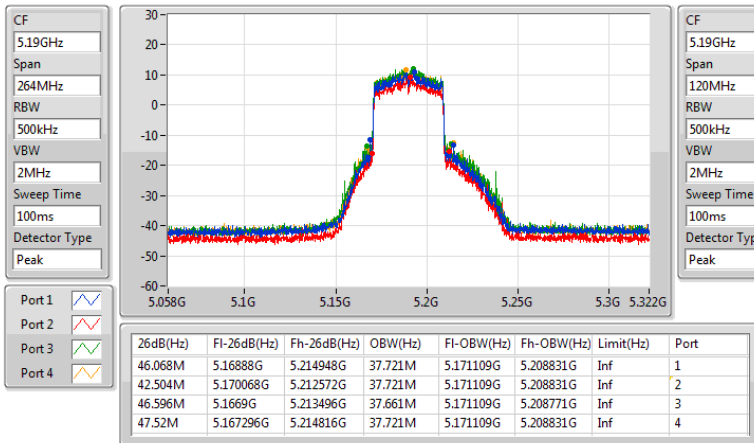




5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

EBW

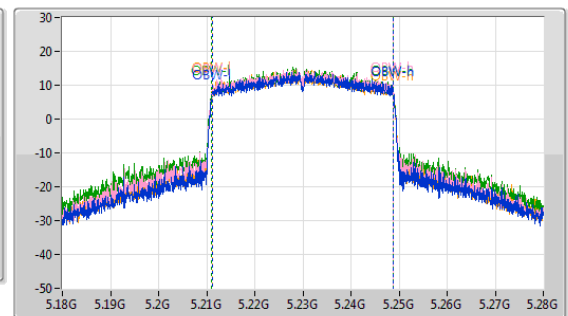
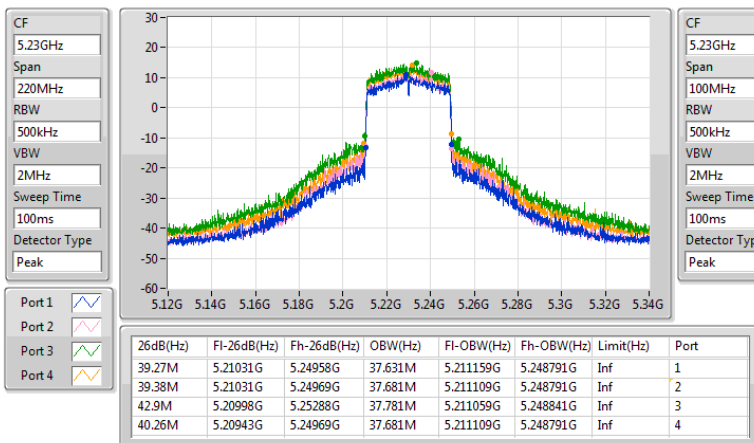
5190MHz



5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

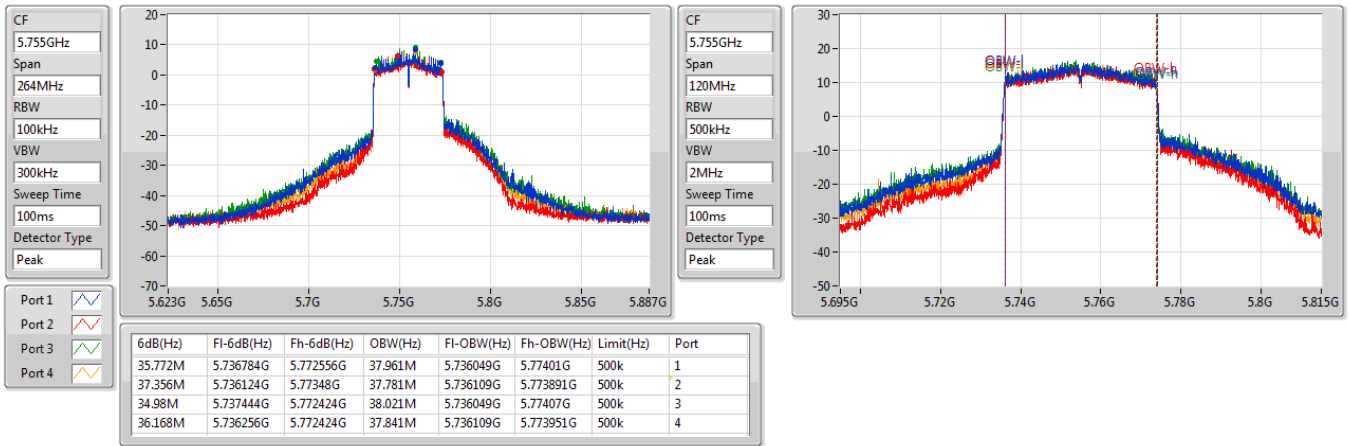




5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

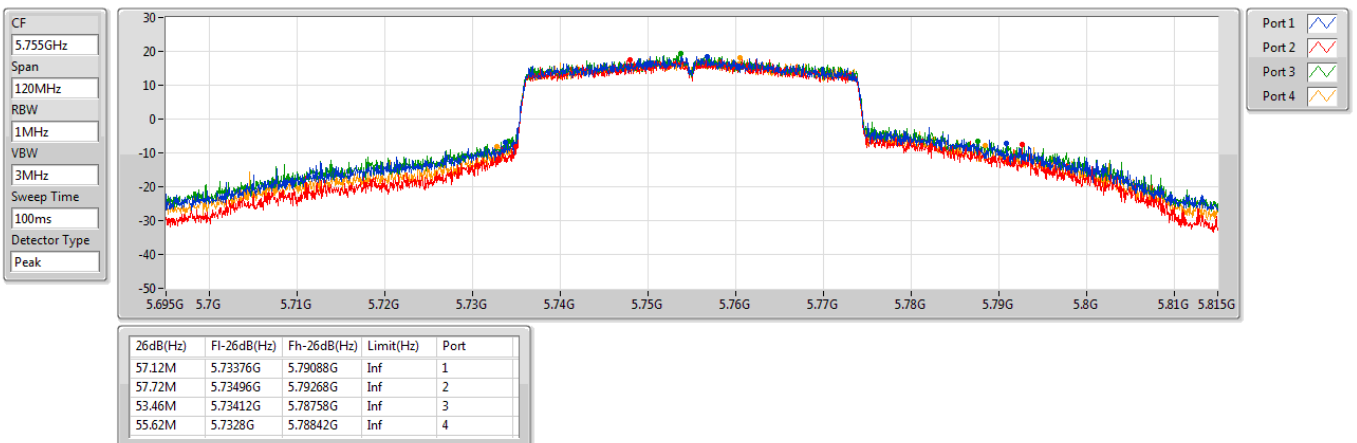
5755MHz



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

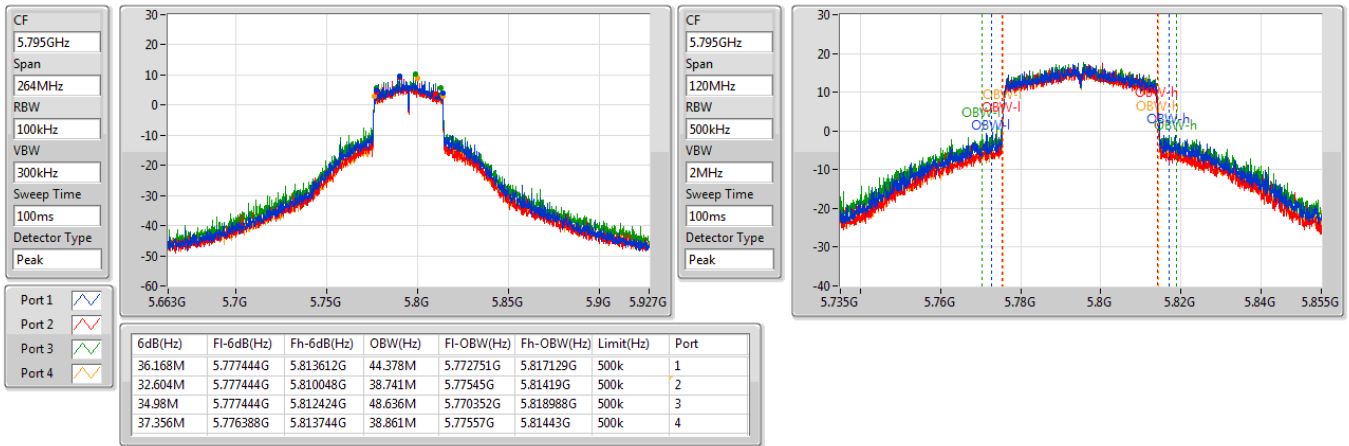




5.725-5.85GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

EBW

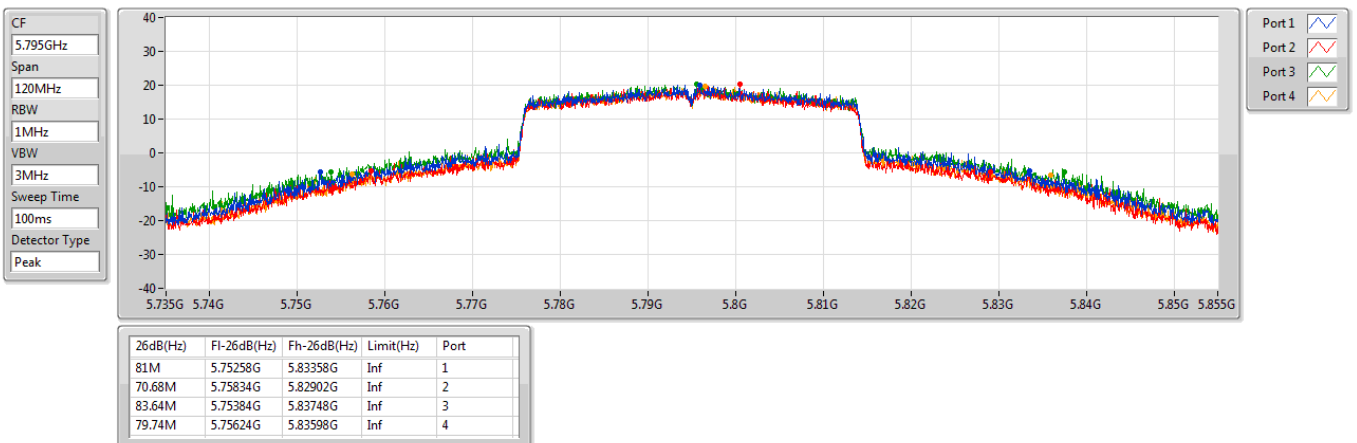
5795MHz



5.725-5.85GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

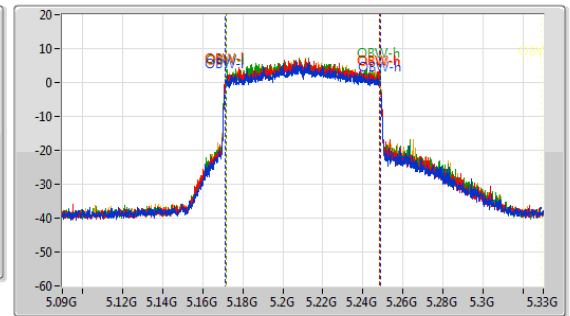
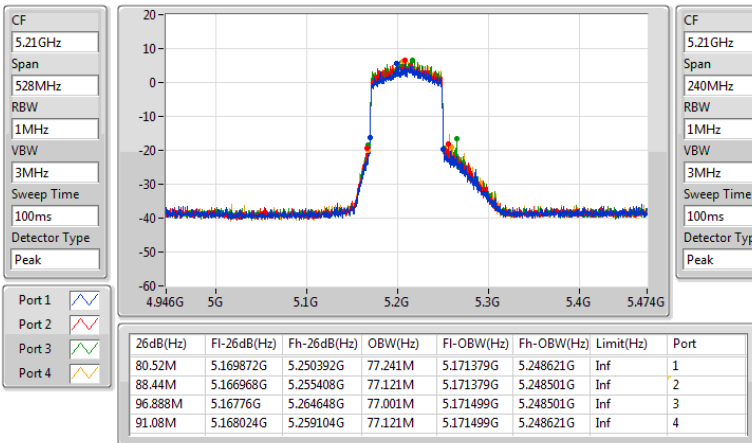




5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

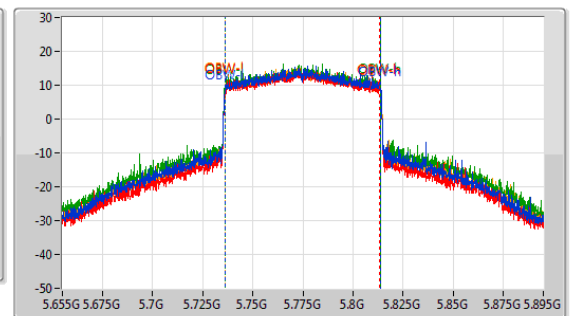
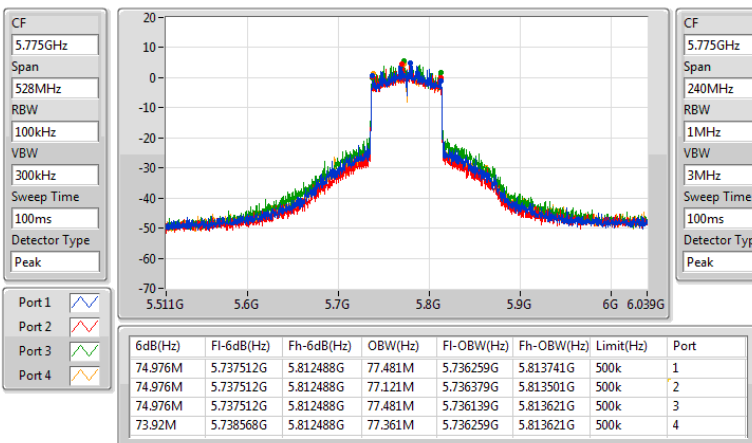
5210MHz



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz



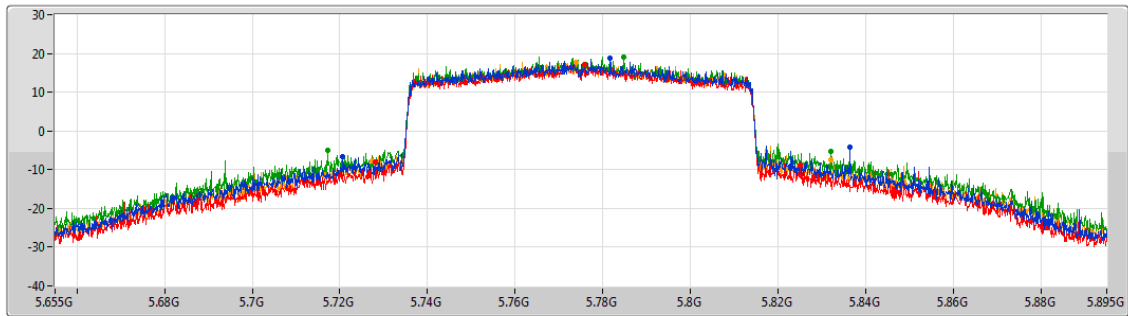


5.725-5.85GHz_802.11ax_HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

CF
5.775GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	F1-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
115.8M	5.72064G	5.83644G	Inf	1
96.84M	5.7282G	5.82504G	Inf	2
114.96M	5.71716G	5.83212G	Inf	3
104.64M	5.72736G	5.832G	Inf	4

Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	27.11	0.51404	29.24	0.83946
802.11ax HEW20_Nss1,(MCS0)_4TX	27.75	0.59566	29.88	0.97275
802.11ax HEW40_Nss1,(MCS0)_4TX	26.30	0.42658	28.43	0.69663
802.11ax HEW80_Nss1,(MCS0)_4TX	17.83	0.06067	19.96	0.09908
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.32	0.85507	32.22	1.66725
802.11ax HEW20_Nss1,(MCS0)_4TX	29.28	0.84723	32.18	1.65196
802.11ax HEW40_Nss1,(MCS0)_4TX	28.95	0.78524	31.85	1.53109
802.11ax HEW80_Nss1,(MCS0)_4TX	24.80	0.30200	27.70	0.58884

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.13	19.77	20.65	21.12	20.43	26.54	30.00	28.67	36.00
5200MHz	Pass	2.13	20.26	21.03	21.62	20.92	27.00	30.00	29.13	36.00
5240MHz	Pass	2.13	20.56	21.31	21.53	20.89	27.11	30.00	29.24	36.00
5745MHz	Pass	2.90	23.43	22.66	23.62	22.91	29.19	30.00	32.09	36.00
5785MHz	Pass	2.90	23.46	22.75	23.82	23.09	29.32	30.00	32.22	36.00
5825MHz	Pass	2.90	23.31	22.71	23.29	23.13	29.14	30.00	32.04	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.13	18.92	19.67	20.33	19.71	25.71	30.00	27.84	36.00
5200MHz	Pass	2.13	20.56	21.33	21.89	21.22	27.30	30.00	29.43	36.00
5240MHz	Pass	2.13	21.33	21.86	22.13	21.57	27.75	30.00	29.88	36.00
5745MHz	Pass	2.90	23.13	22.56	23.41	22.91	29.03	30.00	31.93	36.00
5785MHz	Pass	2.90	23.34	22.96	23.55	23.15	29.28	30.00	32.18	36.00
5825MHz	Pass	2.90	23.05	22.53	23.05	22.95	28.92	30.00	31.82	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	2.13	16.92	17.79	18.32	17.75	23.74	30.00	25.87	36.00
5230MHz	Pass	2.13	19.76	20.43	20.82	20.05	26.30	30.00	28.43	36.00
5755MHz	Pass	2.90	21.65	21.02	21.95	21.37	27.53	30.00	30.43	36.00
5795MHz	Pass	2.90	23.13	22.42	23.43	22.67	28.95	30.00	31.85	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.13	10.82	11.92	12.34	12.01	17.83	30.00	19.96	36.00
5775MHz	Pass	2.90	18.91	18.16	19.25	18.72	24.80	30.00	27.70	36.00

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

Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.73	0.14894	29.88	0.97275
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	20.28	0.10666	28.43	0.69663
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	11.81	0.01517	19.96	0.09908
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.26	0.21184	32.18	1.65196
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.93	0.19634	31.85	1.53109
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	18.78	0.07551	27.70	0.58884

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_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.15	12.9	13.65	14.31	13.69	19.69	27.85	27.84	36.00
5200MHz	Pass	8.15	14.54	15.31	15.87	15.2	21.28	27.85	29.43	36.00
5240MHz	Pass	8.15	15.31	15.84	16.11	15.55	21.73	27.85	29.88	36.00
5745MHz	Pass	8.92	17.11	16.54	17.39	16.89	23.01	27.08	31.93	36.00
5785MHz	Pass	8.92	17.32	16.94	17.53	17.13	23.26	27.08	32.18	36.00
5825MHz	Pass	8.92	17.03	16.51	17.03	16.93	22.90	27.08	31.82	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	8.15	10.9	11.77	12.3	11.73	17.72	27.85	25.87	36.00
5230MHz	Pass	8.15	13.74	14.41	14.8	14.03	20.28	27.85	28.43	36.00
5755MHz	Pass	8.92	15.63	15	15.93	15.35	21.51	27.08	30.43	36.00
5795MHz	Pass	8.92	17.11	16.4	17.41	16.65	22.93	27.08	31.85	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	8.15	4.8	5.9	6.32	5.99	11.81	27.85	19.96	36.00
5775MHz	Pass	8.92	12.89	12.14	13.23	12.7	18.78	27.08	27.70	36.00

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

Note:

For 5180~5240MHz:

Directional gain = $2.13 + 10 \cdot \log(4/1) = 8.15 \text{ dBi} > 6 \text{ dBi}$, so the limit of output power shall be reduced to $30 \text{ dBm} - (8.15 \text{ dBi} - 6 \text{ dBi}) = 27.85 \text{ dBm}$

For 5745~5825MHz:

Directional gain = $2.9 + 10 \cdot \log(4/1) = 8.92 \text{ dBi} > 6 \text{ dBi}$, so the limit of output power shall be reduced to $30 \text{ dBm} - (8.92 \text{ dBi} - 6 \text{ dBi}) = 27.08 \text{ dBm}$

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	14.35	22.50
802.11ax HEW20_Nss1,(MCS0)_4TX	14.58	22.73
802.11ax HEW40_Nss1,(MCS0)_4TX	11.59	19.74
802.11ax HEW80_Nss1,(MCS0)_4TX	0.19	8.34
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.35	24.27
802.11ax HEW20_Nss1,(MCS0)_4TX	14.56	23.48
802.11ax HEW40_Nss1,(MCS0)_4TX	12.76	21.68
802.11ax HEW80_Nss1,(MCS0)_4TX	7.42	16.34

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.15	6.98	7.75	8.40	7.70	13.60	14.85	21.75	23.00
5200MHz	Pass	8.15	7.71	8.42	9.29	8.46	14.30	14.85	22.45	23.00
5240MHz	Pass	8.15	8.01	8.77	9.02	8.41	14.35	14.85	22.50	23.00
5745MHz	Pass	8.92	9.57	9.02	9.93	9.30	15.35	27.08	24.27	36.00
5785MHz	Pass	8.92	9.63	9.14	9.88	9.15	15.18	27.08	24.10	36.00
5825MHz	Pass	8.92	9.44	9.13	9.44	9.36	15.12	27.08	24.04	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.15	6.05	6.58	7.43	6.57	12.44	14.85	20.59	23.00
5200MHz	Pass	8.15	7.43	8.24	8.83	8.08	13.95	14.85	22.10	23.00
5240MHz	Pass	8.15	8.46	9.27	9.19	8.39	14.58	14.85	22.73	23.00
5745MHz	Pass	8.92	8.67	8.46	9.00	8.58	14.46	27.08	23.38	36.00
5785MHz	Pass	8.92	8.79	8.39	9.24	8.46	14.56	27.08	23.48	36.00
5825MHz	Pass	8.92	8.47	8.23	8.68	8.52	14.31	27.08	23.23	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	8.15	-4.94	-4.31	-3.50	-4.14	1.54	14.85	9.69	23.00
5230MHz	Pass	8.15	5.20	6.14	6.15	5.20	11.59	14.85	19.74	23.00
5755MHz	Pass	8.92	5.47	5.08	6.21	5.33	11.34	27.08	20.26	36.00
5795MHz	Pass	8.92	6.87	6.31	7.66	6.51	12.76	27.08	21.68	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	8.15	-6.69	-5.74	-4.96	-5.33	0.19	14.85	8.34	23.00
5775MHz	Pass	8.92	1.50	1.12	2.32	1.56	7.42	27.08	16.34	36.00

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;

Note:

For 5180~5240MHz:

Directional gain = $2.13 + 10 \cdot \log(4/1) = 8.15 \text{ dBi} > 6 \text{ dBi}$, so the limit of output power shall be reduced to 17 dBm – (8.15dBi – 6dBi) = 14.85 dBm

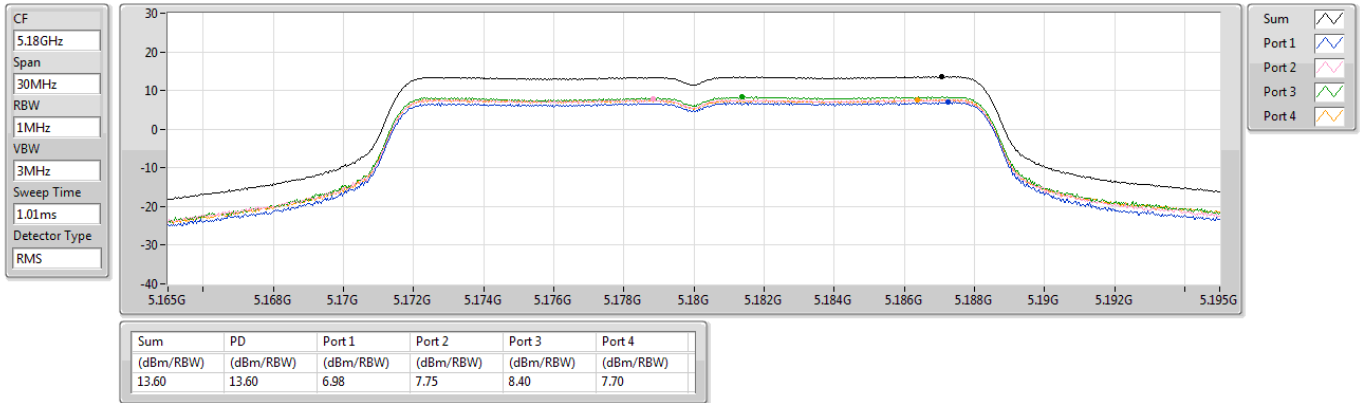
For 5745~5825MHz:

Directional gain = $2.9 + 10 \cdot \log(4/1) = 8.92 \text{ dBi} > 6 \text{ dBi}$, so the limit of output power shall be reduced to 30 dBm – (8.92dBi – 6dBi) = 27.08 dBm

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

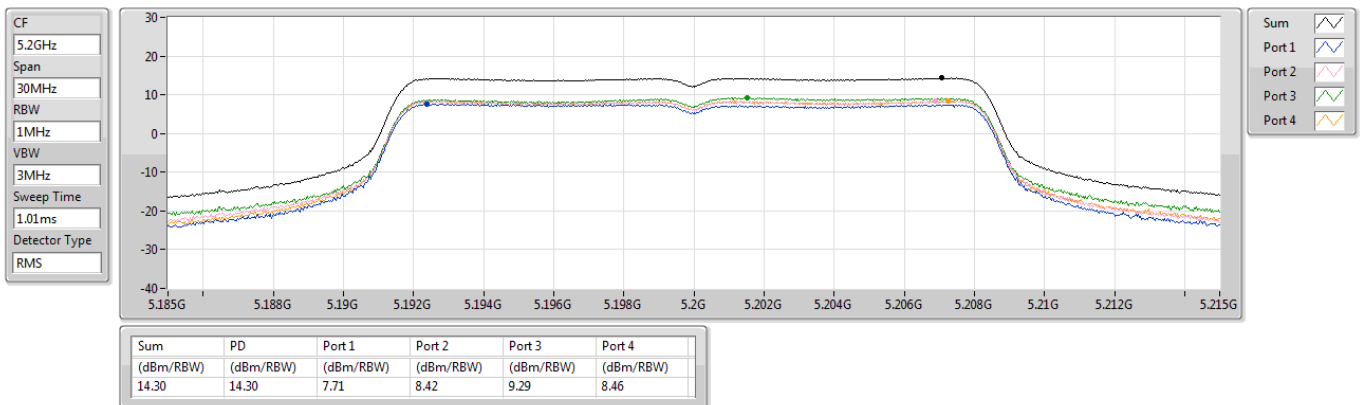
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

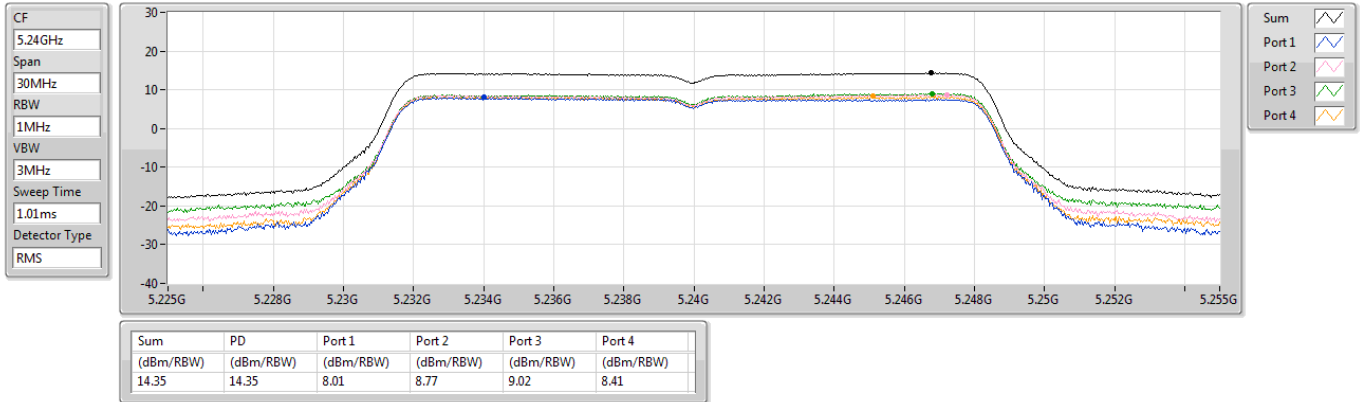




5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

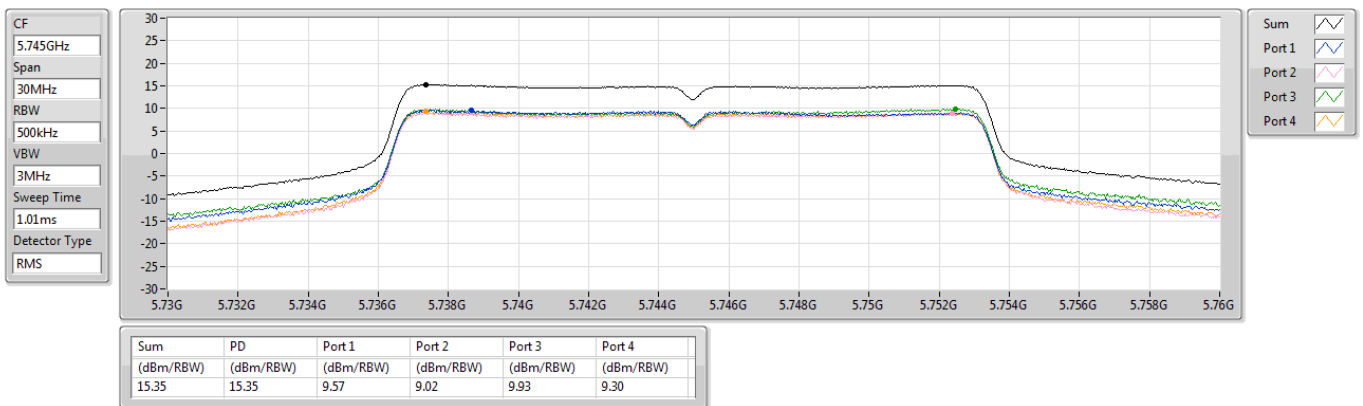
5240MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5745MHz



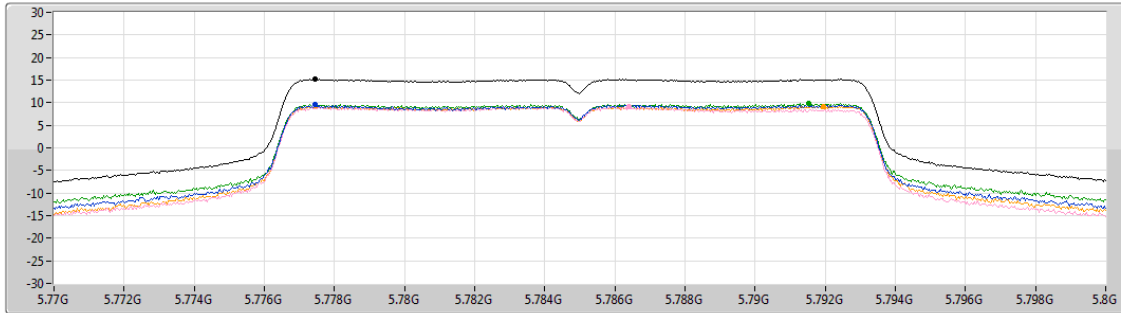


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



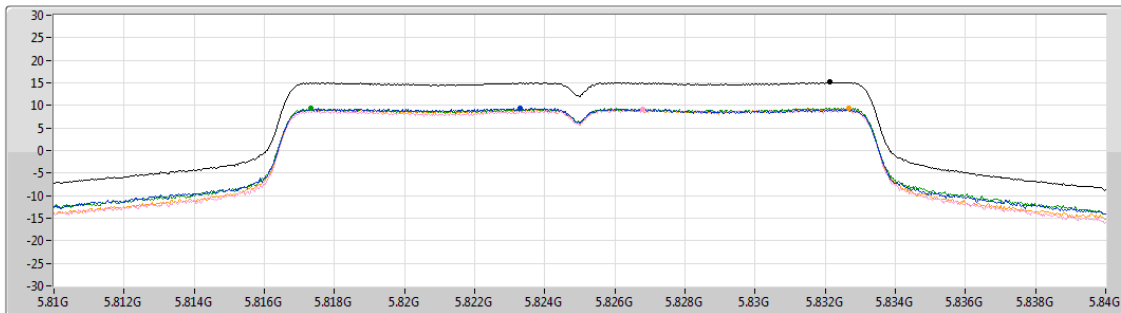
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.18	15.18	9.63	9.14	9.88	9.15

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS

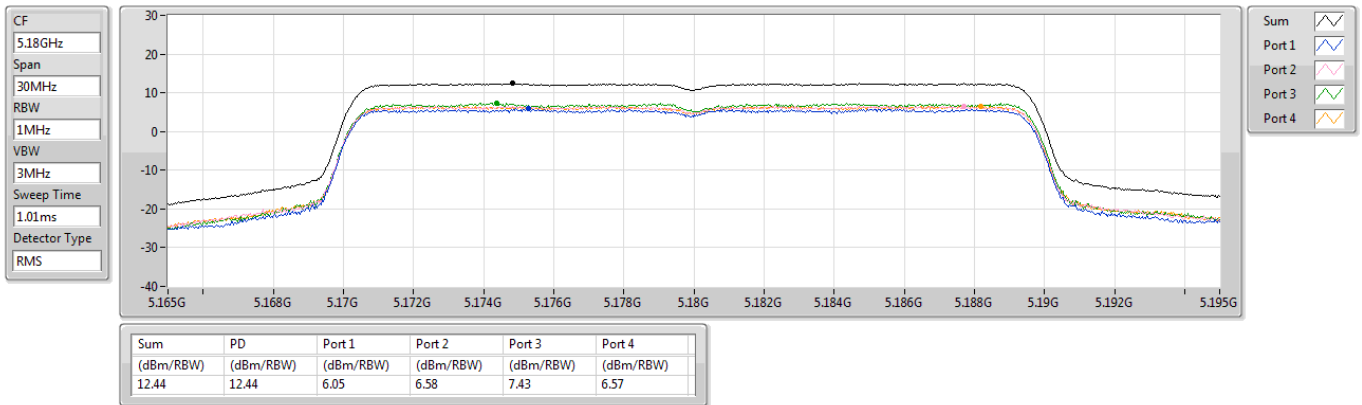


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.12	15.12	9.44	9.13	9.44	9.36

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

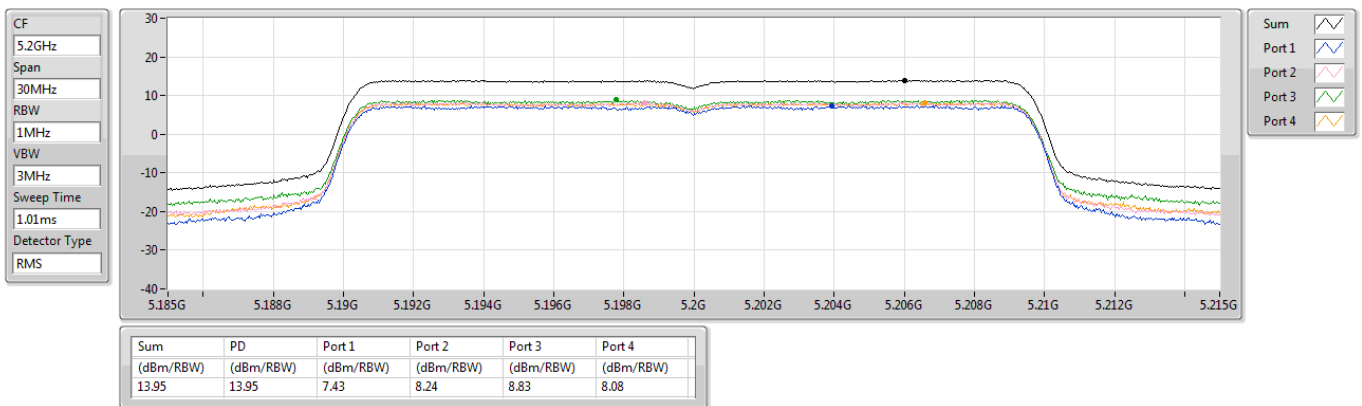
5180MHz



5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

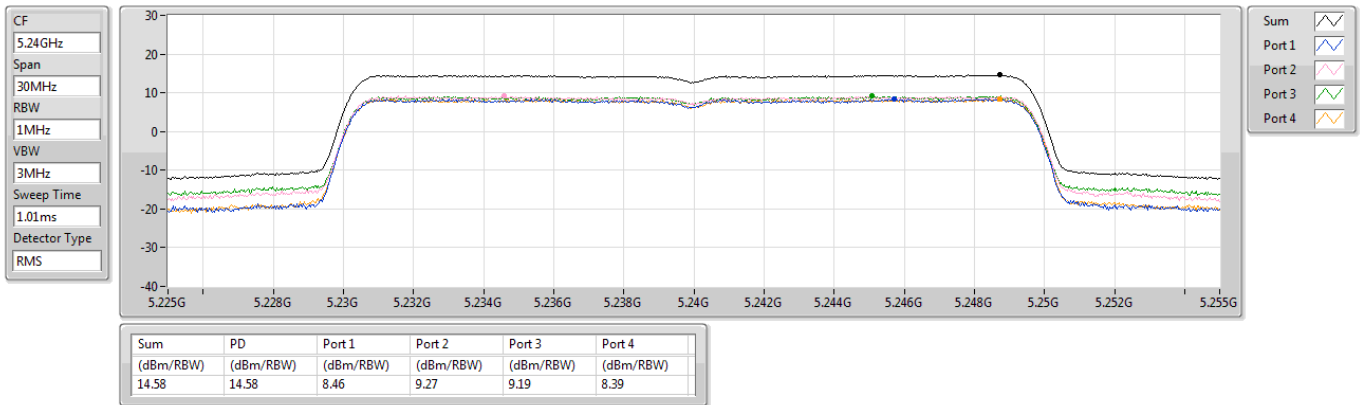




5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

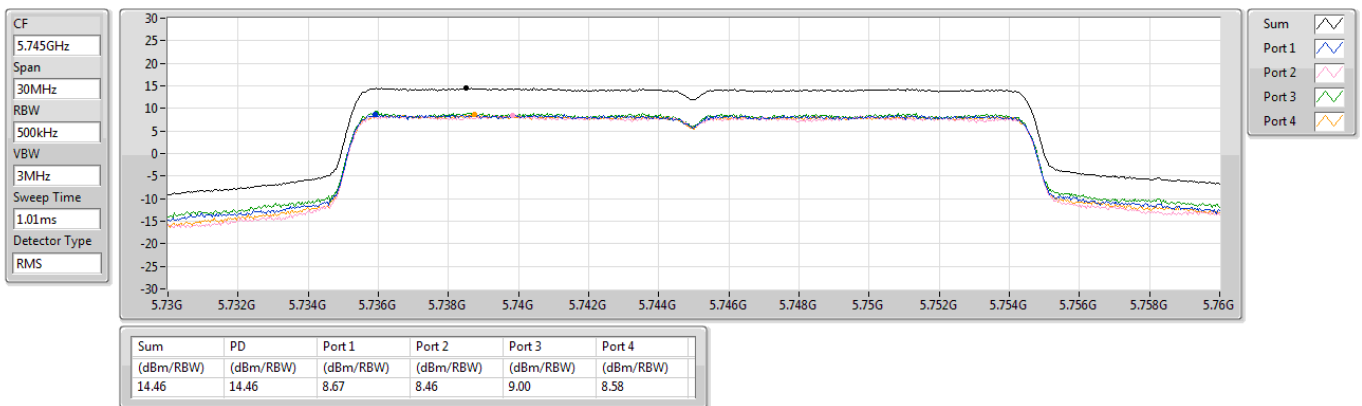
5240MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

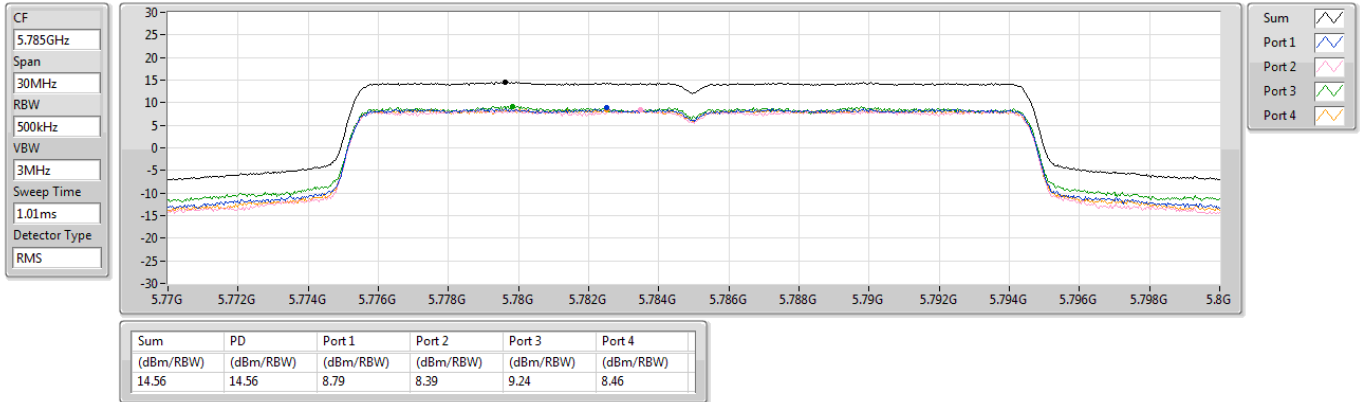
5745MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

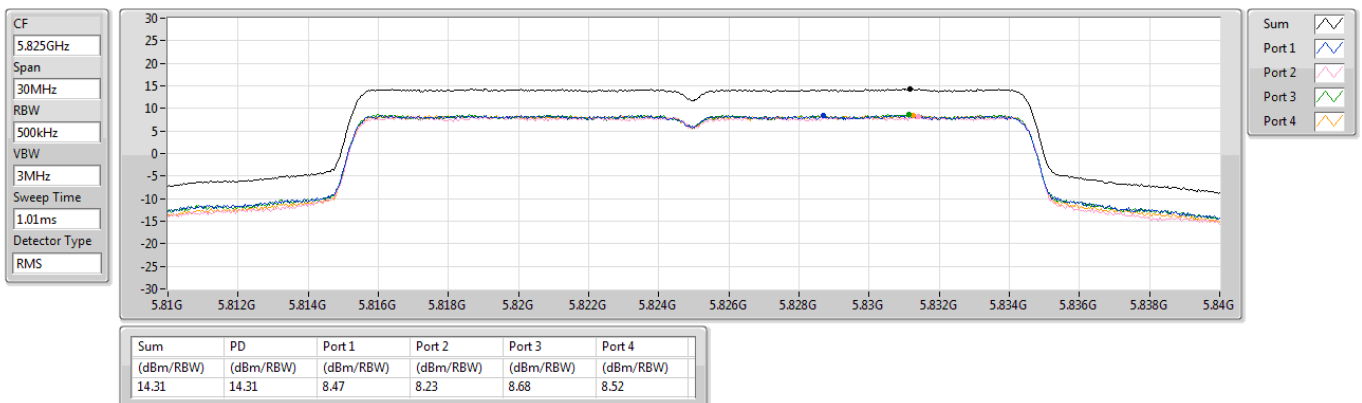
5785MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

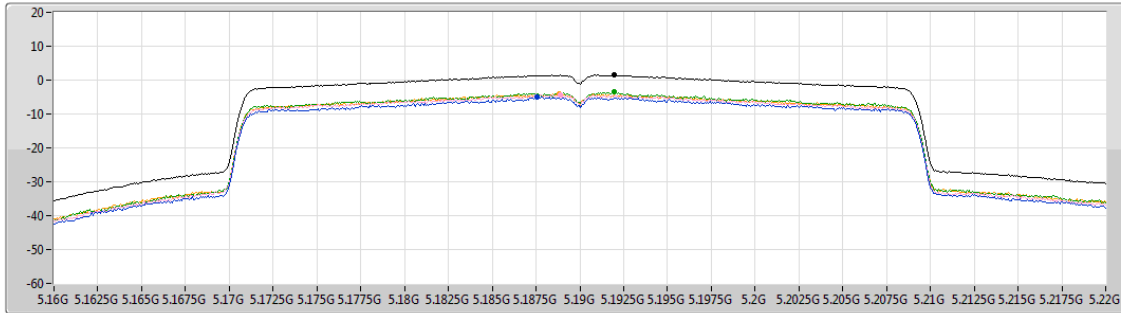


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

CF
5.19GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

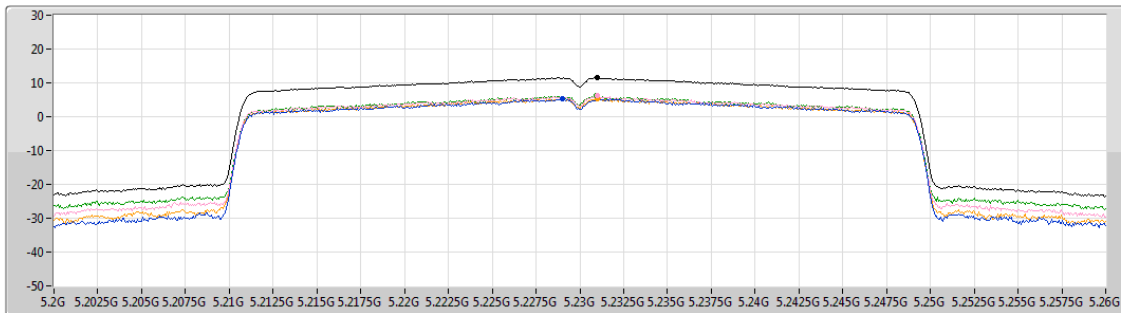
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.54	1.54	-4.94	-4.31	-3.50	-4.14

5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

CF
5.23GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

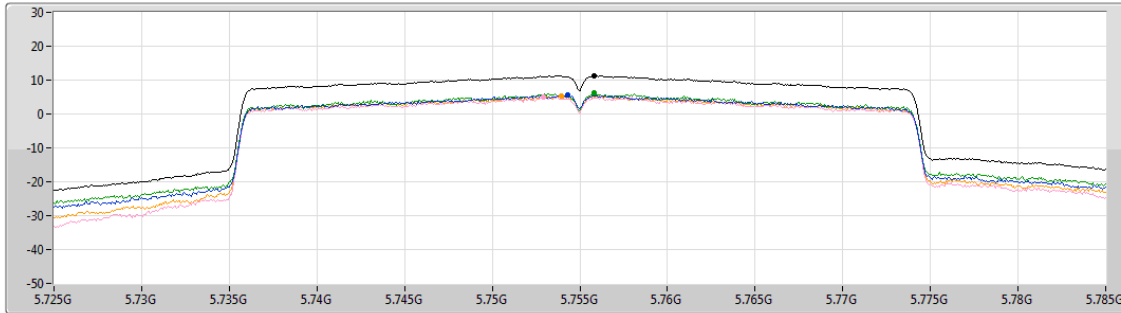
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.59	11.59	5.20	6.14	6.15	5.20

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5755MHz

CF
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

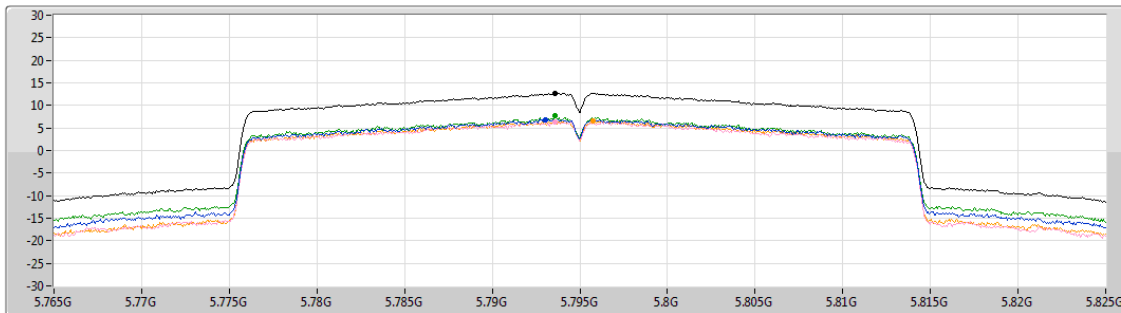
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.34	11.34	5.47	5.08	6.21	5.33

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.76	12.76	6.87	6.31	7.66	6.51

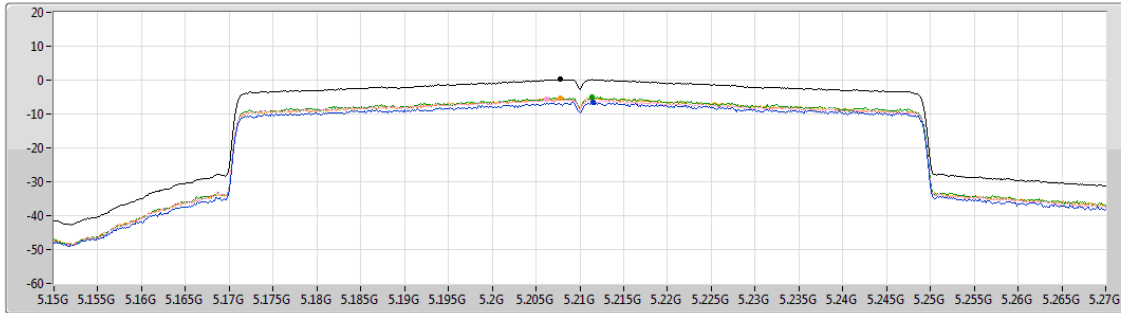


5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

CF
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



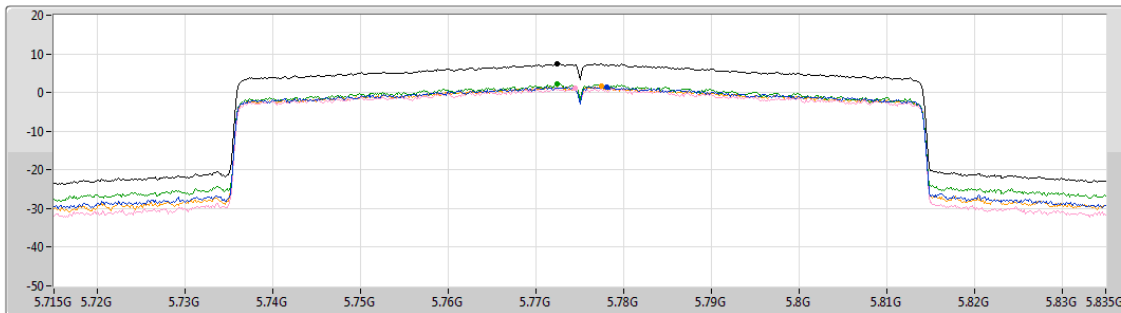
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.19	0.19	-6.69	-5.74	-4.96	-5.33

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz

CF
5.775GHz
Span
120MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.42	7.42	1.50	1.12	2.32	1.56

**Non-beamforming mode****Unwanted Emissions (Below 1GHz)**

Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Paul Lin Temperature(°C):26 Humidity(%):64			
Level (dBuV/m)			

Page No. : 2 of 40



Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :Paul Lin Temperature(°C):26 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Paul Lin Temperature(°C):26 Humidity(%):64			
Level (dBUV/m)			



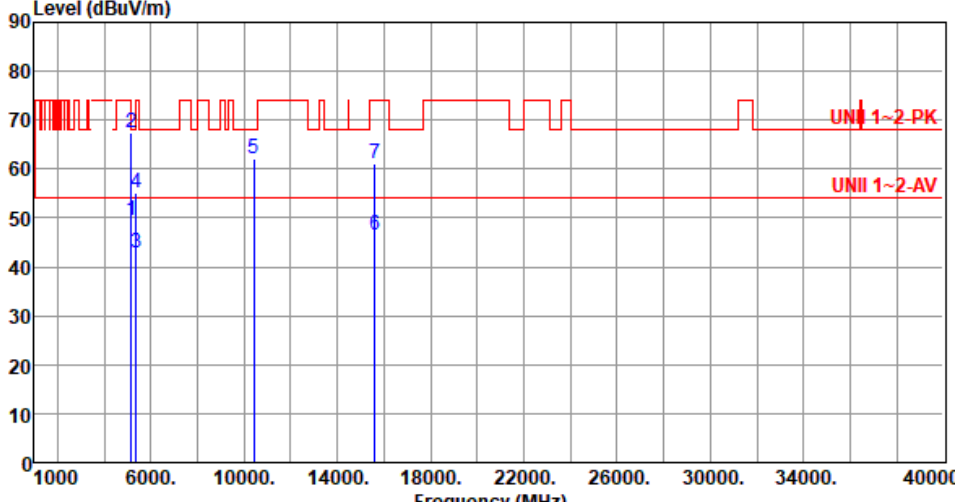
Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Paul Lin Temperature(°C):25 Humidity(%):64			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5180																																																													
Polarization	Vertical																																																															
Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																																
	<table><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><tr><td>1</td><td>5150.00</td><td>52.98</td><td>54.00</td><td>-1.02</td><td>52.84</td><td>0.14</td><td>Average</td><td>270</td><td>4</td></tr><tr><td>2</td><td>5150.00</td><td>69.36</td><td>74.00</td><td>-4.64</td><td>69.22</td><td>0.14</td><td>Peak</td><td>270</td><td>4</td></tr><tr><td>3</td><td>10360.00</td><td>56.88</td><td>68.20</td><td>-11.32</td><td>49.87</td><td>7.01</td><td>Peak</td><td>100</td><td>177</td></tr><tr><td>4</td><td>15540.00</td><td>43.68</td><td>54.00</td><td>-10.32</td><td>39.63</td><td>4.05</td><td>Average</td><td>100</td><td>203</td></tr><tr><td>5</td><td>15540.00</td><td>56.48</td><td>74.00</td><td>-17.52</td><td>52.43</td><td>4.05</td><td>Peak</td><td>100</td><td>203</td></tr></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	5150.00	52.98	54.00	-1.02	52.84	0.14	Average	270	4	2	5150.00	69.36	74.00	-4.64	69.22	0.14	Peak	270	4	3	10360.00	56.88	68.20	-11.32	49.87	7.01	Peak	100	177	4	15540.00	43.68	54.00	-10.32	39.63	4.05	Average	100	203	5	15540.00	56.48	74.00	-17.52	52.43	4.05	Peak	100	203			
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Modulation	11a	Test Freq. (MHz)	5200																																																																																
Polarization	Horizontal																																																																																		
Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																																																			
Level (dBUV/m)  Frequency (MHz) <table><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><tr><td>1</td><td>5150.00</td><td>49.54</td><td>54.00</td><td>-4.46</td><td>49.40</td><td>0.14</td><td>Average</td><td>100</td><td>343</td></tr><tr><td>2</td><td>5150.00</td><td>67.51</td><td>74.00</td><td>-6.49</td><td>67.37</td><td>0.14</td><td>Peak</td><td>100</td><td>343</td></tr><tr><td>3</td><td>5350.00</td><td>42.89</td><td>54.00</td><td>-11.11</td><td>43.18</td><td>-0.29</td><td>Average</td><td>100</td><td>351</td></tr><tr><td>4</td><td>5350.00</td><td>55.10</td><td>74.00</td><td>-18.90</td><td>55.39</td><td>-0.29</td><td>Peak</td><td>100</td><td>351</td></tr><tr><td>5</td><td>10400.00</td><td>62.13</td><td>68.20</td><td>-6.07</td><td>55.02</td><td>7.11</td><td>Peak</td><td>124</td><td>243</td></tr><tr><td>6</td><td>15600.00</td><td>46.61</td><td>54.00</td><td>-7.39</td><td>42.76</td><td>3.85</td><td>Average</td><td>155</td><td>228</td></tr><tr><td>7</td><td>15600.00</td><td>61.22</td><td>74.00</td><td>-12.78</td><td>57.37</td><td>3.85</td><td>Peak</td><td>155</td><td>228</td></tr></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	5150.00	49.54	54.00	-4.46	49.40	0.14	Average	100	343	2	5150.00	67.51	74.00	-6.49	67.37	0.14	Peak	100	343	3	5350.00	42.89	54.00	-11.11	43.18	-0.29	Average	100	351	4	5350.00	55.10	74.00	-18.90	55.39	-0.29	Peak	100	351	5	10400.00	62.13	68.20	-6.07	55.02	7.11	Peak	124	243	6	15600.00	46.61	54.00	-7.39	42.76	3.85	Average	155	228	7	15600.00	61.22	74.00	-12.78	57.37	3.85	Peak	155	228
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Modulation	11a	Test Freq. (MHz)	5200																																																																																
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Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																																																			
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Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Paul Lin Temperature(°C):25 Humidity(%):64			
Level (dBUV/m) </			



Modulation	11a	Test Freq. (MHz)	5240																																																																																
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																																																													
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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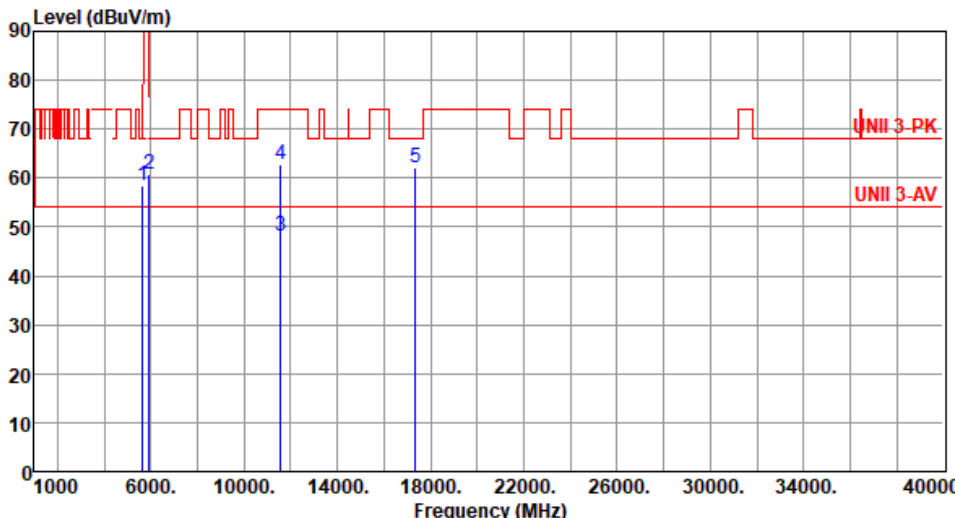


Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Vertical																																																																																												
Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																																																													
Level (dBUV/m) Frequency (MHz) <table><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><tr><td>1</td><td>5650.00</td><td>65.04</td><td>68.20</td><td>-3.16</td><td>64.90</td><td>0.14</td><td>Peak</td><td>109</td><td>346</td></tr><tr><td>2</td><td>5700.00</td><td>81.62</td><td>105.20</td><td>-23.58</td><td>81.26</td><td>0.36</td><td>Peak</td><td>109</td><td>346</td></tr><tr><td>3</td><td>5720.00</td><td>90.02</td><td>110.80</td><td>-20.78</td><td>89.56</td><td>0.46</td><td>Peak</td><td>109</td><td>346</td></tr><tr><td>4</td><td>5725.00</td><td>98.38</td><td>122.20</td><td>-23.82</td><td>97.90</td><td>0.48</td><td>Peak</td><td>109</td><td>346</td></tr><tr><td>5</td><td>5925.00</td><td>60.03</td><td>68.20</td><td>-8.17</td><td>58.96</td><td>1.07</td><td>Peak</td><td>109</td><td>346</td></tr><tr><td>6</td><td>11490.00</td><td>47.86</td><td>54.00</td><td>-6.14</td><td>40.69</td><td>7.17</td><td>Average</td><td>100</td><td>167</td></tr><tr><td>7</td><td>11490.00</td><td>62.72</td><td>74.00</td><td>-11.28</td><td>55.55</td><td>7.17</td><td>Peak</td><td>100</td><td>167</td></tr><tr><td>8</td><td>17235.00</td><td>63.40</td><td>68.20</td><td>-4.80</td><td>57.32</td><td>6.08</td><td>Peak</td><td>263</td><td>149</td></tr></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	5650.00	65.04	68.20	-3.16	64.90	0.14	Peak	109	346	2	5700.00	81.62	105.20	-23.58	81.26	0.36	Peak	109	346	3	5720.00	90.02	110.80	-20.78	89.56	0.46	Peak	109	346	4	5725.00	98.38	122.20	-23.82	97.90	0.48	Peak	109	346	5	5925.00	60.03	68.20	-8.17	58.96	1.07	Peak	109	346	6	11490.00	47.86	54.00	-6.14	40.69	7.17	Average	100	167	7	11490.00	62.72	74.00	-11.28	55.55	7.17	Peak	100	167	8	17235.00	63.40	68.20	-4.80	57.32	6.08	Peak	263	149
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																															
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
1	5650.00	59.07	68.20	-9.13	58.93	0.14	Peak	224	79																																																						
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3	11570.00	52.30	54.00	-1.70	45.35	6.95	Average	181	210																																																						
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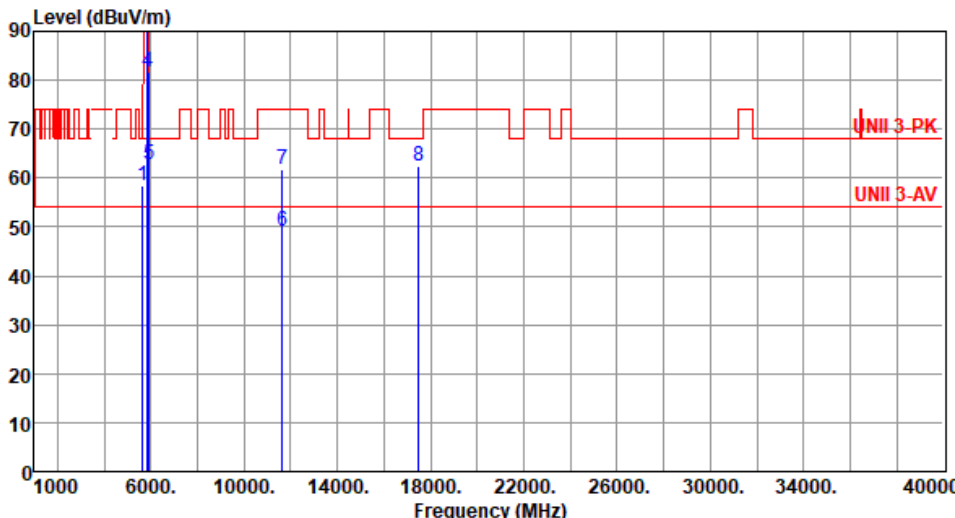


Modulation	11a	Test Freq. (MHz)	5785																																																												
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Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																															
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
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Modulation	11a	Test Freq. (MHz)	5825																																																																																										
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	11a	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																																																													
																																																																																													
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Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):24 Humidity(%):66			
Level (dBUV/m)			



Modulation	ax HE20		Test Freq. (MHz)		5180	
Polarization	Vertical					
Test By :Sean Yu Temperature(°C):24 Humidity(%):66						
Level (dBuV/m) <						



Modulation	ax HE20	Test Freq. (MHz)	5200																																																																																
Polarization	Horizontal																																																																																		
Test By :Sean Yu Temperature(°C):24 Humidity(%):66																																																																																			
Level (dBUV/m) <table><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><tr><td>1</td><td>5150.00</td><td>53.11</td><td>54.00</td><td>-0.89</td><td>52.97</td><td>0.14</td><td>Average</td><td>186</td><td>1</td></tr><tr><td>2</td><td>5150.00</td><td>73.62</td><td>74.00</td><td>-0.38</td><td>73.48</td><td>0.14</td><td>Peak</td><td>186</td><td>1</td></tr><tr><td>3</td><td>5350.00</td><td>43.96</td><td>54.00</td><td>-10.04</td><td>44.25</td><td>-0.29</td><td>Average</td><td>186</td><td>1</td></tr><tr><td>4</td><td>5350.00</td><td>55.73</td><td>74.00</td><td>-18.27</td><td>56.02</td><td>-0.29</td><td>Peak</td><td>186</td><td>1</td></tr><tr><td>5</td><td>10400.00</td><td>61.64</td><td>68.20</td><td>-6.56</td><td>54.53</td><td>7.11</td><td>Peak</td><td>100</td><td>251</td></tr><tr><td>6</td><td>15600.00</td><td>46.78</td><td>54.00</td><td>-7.22</td><td>42.93</td><td>3.85</td><td>Average</td><td>159</td><td>228</td></tr><tr><td>7</td><td>15600.00</td><td>59.12</td><td>74.00</td><td>-14.88</td><td>55.27</td><td>3.85</td><td>Peak</td><td>159</td><td>228</td></tr></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	5150.00	53.11	54.00	-0.89	52.97	0.14	Average	186	1	2	5150.00	73.62	74.00	-0.38	73.48	0.14	Peak	186	1	3	5350.00	43.96	54.00	-10.04	44.25	-0.29	Average	186	1	4	5350.00	55.73	74.00	-18.27	56.02	-0.29	Peak	186	1	5	10400.00	61.64	68.20	-6.56	54.53	7.11	Peak	100	251	6	15600.00	46.78	54.00	-7.22	42.93	3.85	Average	159	228	7	15600.00	59.12	74.00	-14.88	55.27	3.85	Peak	159	228
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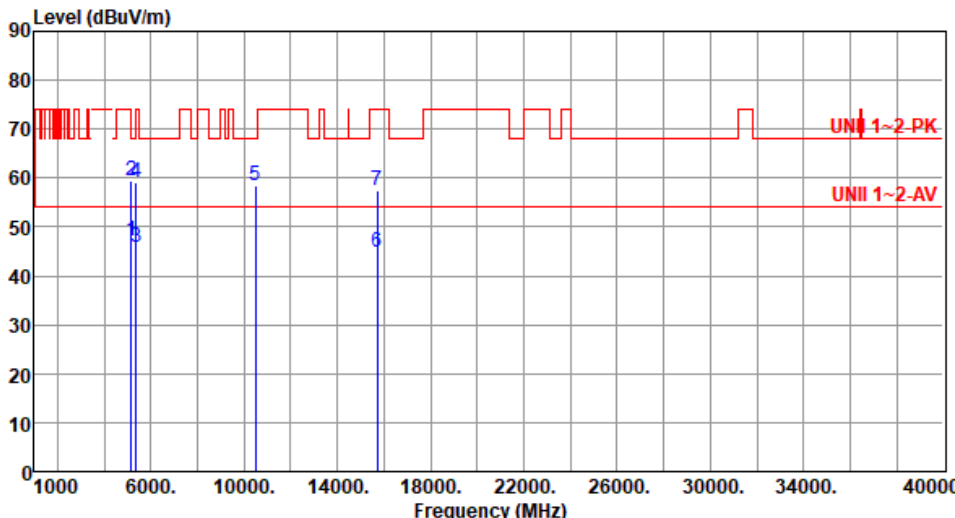


Modulation	ax HE20	Test Freq. (MHz)	5200																																																																																
Polarization	Vertical																																																																																		
Test By :Sean Yu Temperature(°C):24 Humidity(%):66																																																																																			
Level (dBuV/m) <table><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><tr><td>1</td><td>5150.00</td><td>52.99</td><td>54.00</td><td>-1.01</td><td>52.85</td><td>0.14</td><td>Average</td><td>276</td><td>359</td></tr><tr><td>2</td><td>5150.00</td><td>72.79</td><td>74.00</td><td>-1.21</td><td>72.65</td><td>0.14</td><td>Peak</td><td>276</td><td>359</td></tr><tr><td>3</td><td>5350.00</td><td>44.30</td><td>54.00</td><td>-9.70</td><td>44.59</td><td>-0.29</td><td>Average</td><td>276</td><td>347</td></tr><tr><td>4</td><td>5350.00</td><td>56.57</td><td>74.00</td><td>-17.43</td><td>56.86</td><td>-0.29</td><td>Peak</td><td>276</td><td>347</td></tr><tr><td>5</td><td>10400.00</td><td>56.72</td><td>68.20</td><td>-11.48</td><td>49.61</td><td>7.11</td><td>Peak</td><td>100</td><td>128</td></tr><tr><td>6</td><td>15600.00</td><td>43.46</td><td>54.00</td><td>-10.54</td><td>39.61</td><td>3.85</td><td>Average</td><td>100</td><td>227</td></tr><tr><td>7</td><td>15600.00</td><td>56.52</td><td>74.00</td><td>-17.48</td><td>52.67</td><td>3.85</td><td>Peak</td><td>100</td><td>227</td></tr></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	5150.00	52.99	54.00	-1.01	52.85	0.14	Average	276	359	2	5150.00	72.79	74.00	-1.21	72.65	0.14	Peak	276	359	3	5350.00	44.30	54.00	-9.70	44.59	-0.29	Average	276	347	4	5350.00	56.57	74.00	-17.43	56.86	-0.29	Peak	276	347	5	10400.00	56.72	68.20	-11.48	49.61	7.11	Peak	100	128	6	15600.00	43.46	54.00	-10.54	39.61	3.85	Average	100	227	7	15600.00	56.52	74.00	-17.48	52.67	3.85	Peak	100	227
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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6	15600.00	43.46	54.00	-10.54	39.61	3.85	Average	100	227																																																																										
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Modulation	ax HE20	Test Freq. (MHz)	5240																																																																																
Polarization	Horizontal																																																																																		
Test By :Sean Yu Temperature(°C):24 Humidity(%):66																																																																																			
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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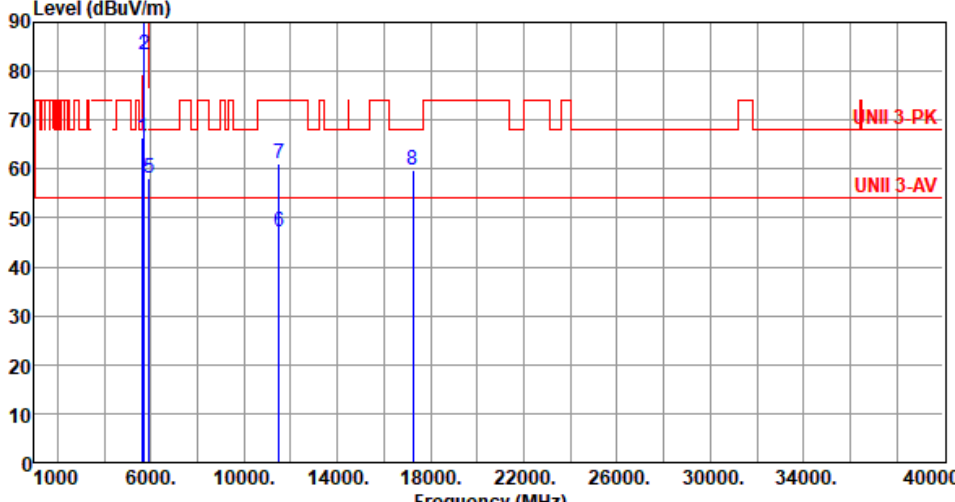


Modulation	ax HE20	Test Freq. (MHz)	5240																																																																																
Polarization	Vertical																																																																																		
Test By :Sean Yu Temperature(°C):24 Humidity(%):66																																																																																			
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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Modulation	ax HE20	Test Freq. (MHz)	5745																																																																																																			
Polarization	Horizontal																																																																																																					
Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																																						
Level (dBUV/m) Frequency (MHz) <table><tr><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>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>dBUV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5650.00</td><td>65.08</td><td>68.20</td><td>-3.12</td><td>64.94</td><td>0.14</td><td>Peak</td><td>213</td></tr><tr><td>2</td><td>5700.00</td><td>83.40</td><td>105.20</td><td>-21.80</td><td>83.04</td><td>0.36</td><td>Peak</td><td>213</td></tr><tr><td>3</td><td>5720.00</td><td>94.90</td><td>110.80</td><td>-15.90</td><td>94.44</td><td>0.46</td><td>Peak</td><td>213</td></tr><tr><td>4</td><td>5725.00</td><td>99.26</td><td>122.20</td><td>-22.94</td><td>98.78</td><td>0.48</td><td>Peak</td><td>213</td></tr><tr><td>5</td><td>5925.00</td><td>59.84</td><td>68.20</td><td>-8.36</td><td>58.77</td><td>1.07</td><td>Peak</td><td>213</td></tr><tr><td>6</td><td>11490.00</td><td>48.57</td><td>54.00</td><td>-5.43</td><td>41.40</td><td>7.17</td><td>Average</td><td>103</td></tr><tr><td>7</td><td>11490.00</td><td>62.75</td><td>74.00</td><td>-11.25</td><td>55.58</td><td>7.17</td><td>Peak</td><td>103</td></tr><tr><td>8</td><td>17235.00</td><td>67.00</td><td>68.20</td><td>-1.20</td><td>60.92</td><td>6.08</td><td>Peak</td><td>193</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	5650.00	65.08	68.20	-3.12	64.94	0.14	Peak	213	2	5700.00	83.40	105.20	-21.80	83.04	0.36	Peak	213	3	5720.00	94.90	110.80	-15.90	94.44	0.46	Peak	213	4	5725.00	99.26	122.20	-22.94	98.78	0.48	Peak	213	5	5925.00	59.84	68.20	-8.36	58.77	1.07	Peak	213	6	11490.00	48.57	54.00	-5.43	41.40	7.17	Average	103	7	11490.00	62.75	74.00	-11.25	55.58	7.17	Peak	103	8	17235.00	67.00	68.20	-1.20	60.92	6.08	Peak	193
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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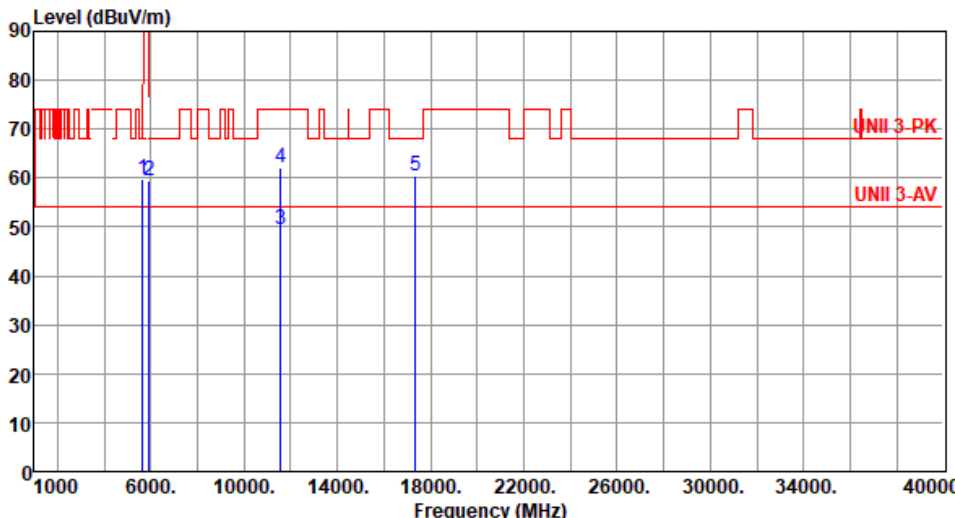


Modulation	ax HE20	Test Freq. (MHz)	5745																																																																																										
Polarization	Vertical																																																																																												
Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																													
Level (dBUV/m)  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>5650.00</td><td>66.27</td><td>68.20</td><td>-1.93</td><td>66.13</td><td>0.14</td><td>Peak</td><td>224</td><td>344</td></tr><tr><td>2</td><td>5700.00</td><td>83.19</td><td>105.20</td><td>-22.01</td><td>82.83</td><td>0.36</td><td>Peak</td><td>224</td><td>344</td></tr><tr><td>3</td><td>5720.00</td><td>93.00</td><td>110.80</td><td>-17.80</td><td>92.54</td><td>0.46</td><td>Peak</td><td>224</td><td>344</td></tr><tr><td>4</td><td>5725.00</td><td>98.18</td><td>122.20</td><td>-24.02</td><td>97.70</td><td>0.48</td><td>Peak</td><td>224</td><td>344</td></tr><tr><td>5</td><td>5925.00</td><td>58.09</td><td>68.20</td><td>-10.11</td><td>57.02</td><td>1.07</td><td>Peak</td><td>224</td><td>344</td></tr><tr><td>6</td><td>11490.00</td><td>47.32</td><td>54.00</td><td>-6.68</td><td>40.15</td><td>7.17</td><td>Average</td><td>107</td><td>225</td></tr><tr><td>7</td><td>11490.00</td><td>60.98</td><td>74.00</td><td>-13.02</td><td>53.81</td><td>7.17</td><td>Peak</td><td>107</td><td>225</td></tr><tr><td>8</td><td>17235.00</td><td>59.85</td><td>68.20</td><td>-8.35</td><td>53.77</td><td>6.08</td><td>Peak</td><td>100</td><td>102</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	5650.00	66.27	68.20	-1.93	66.13	0.14	Peak	224	344	2	5700.00	83.19	105.20	-22.01	82.83	0.36	Peak	224	344	3	5720.00	93.00	110.80	-17.80	92.54	0.46	Peak	224	344	4	5725.00	98.18	122.20	-24.02	97.70	0.48	Peak	224	344	5	5925.00	58.09	68.20	-10.11	57.02	1.07	Peak	224	344	6	11490.00	47.32	54.00	-6.68	40.15	7.17	Average	107	225	7	11490.00	60.98	74.00	-13.02	53.81	7.17	Peak	107	225	8	17235.00	59.85	68.20	-8.35	53.77	6.08	Peak	100	102
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	ax HE20		Test Freq. (MHz)		5785																																																																
Polarization	Horizontal																																																																				
Test By :Paul Lin			Temperature(°C):25			Humidity(%):64																																																															
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																												
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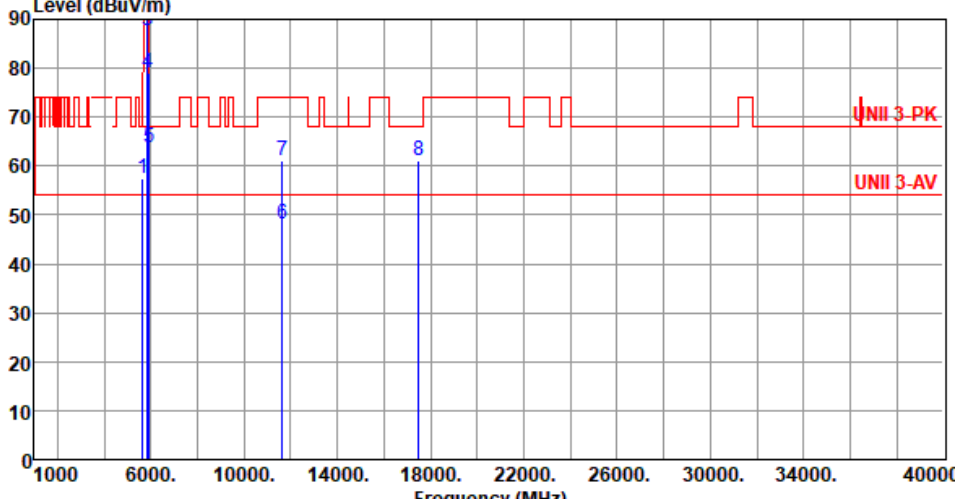


Modulation	ax HE20	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Paul Lin Temperature(°C):25 Humidity(%):64																																																															
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Modulation	ax HE20	Test Freq. (MHz)	5825																																																																																										
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Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																													
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz) <table><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><tr><td>1</td><td>5650.00</td><td>57.32</td><td>68.20</td><td>-10.88</td><td>57.18</td><td>0.14</td><td>Peak</td><td>252</td><td>54</td></tr><tr><td>2</td><td>5850.00</td><td>94.32</td><td>122.20</td><td>-27.88</td><td>93.57</td><td>0.75</td><td>Peak</td><td>252</td><td>54</td></tr><tr><td>3</td><td>5855.00</td><td>89.65</td><td>110.80</td><td>-21.15</td><td>88.87</td><td>0.78</td><td>Peak</td><td>252</td><td>54</td></tr><tr><td>4</td><td>5875.00</td><td>78.52</td><td>105.20</td><td>-26.68</td><td>77.65</td><td>0.87</td><td>Peak</td><td>252</td><td>54</td></tr><tr><td>5</td><td>5925.00</td><td>61.86</td><td>68.20</td><td>-6.34</td><td>60.79</td><td>1.07</td><td>Peak</td><td>252</td><td>54</td></tr><tr><td>6</td><td>11650.00</td><td>52.99</td><td>54.00</td><td>-1.01</td><td>46.32</td><td>6.67</td><td>Average</td><td>176</td><td>224</td></tr><tr><td>7</td><td>11650.00</td><td>66.48</td><td>74.00</td><td>-7.52</td><td>59.81</td><td>6.67</td><td>Peak</td><td>176</td><td>224</td></tr><tr><td>8</td><td>17475.00</td><td>66.03</td><td>68.20</td><td>-2.17</td><td>59.45</td><td>6.58</td><td>Peak</td><td>195</td><td>224</td></tr></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	5650.00	57.32	68.20	-10.88	57.18	0.14	Peak	252	54	2	5850.00	94.32	122.20	-27.88	93.57	0.75	Peak	252	54	3	5855.00	89.65	110.80	-21.15	88.87	0.78	Peak	252	54	4	5875.00	78.52	105.20	-26.68	77.65	0.87	Peak	252	54	5	5925.00	61.86	68.20	-6.34	60.79	1.07	Peak	252	54	6	11650.00	52.99	54.00	-1.01	46.32	6.67	Average	176	224	7	11650.00	66.48	74.00	-7.52	59.81	6.67	Peak	176	224	8	17475.00	66.03	68.20	-2.17	59.45	6.58	Peak	195	224
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	ax HE20	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):24 Humidity(%):66			
Level (dBUV/m)			

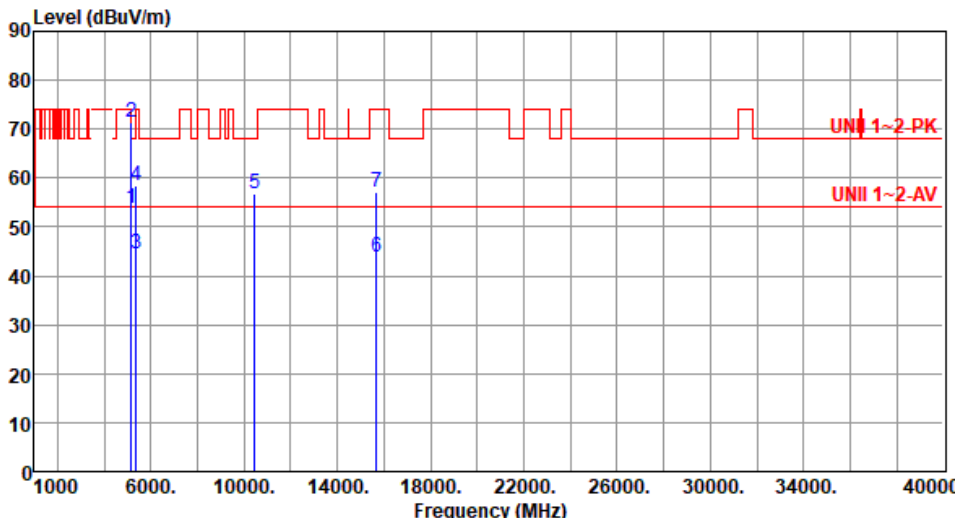


Modulation	ax HE40		Test Freq. (MHz)		5190																																																																																				
Polarization	Vertical																																																																																								
Test By :Sean Yu			Temperature(°C):24			Humidity(%):66																																																																																			
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></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><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>5150.00</td><td>53.33</td><td>54.00</td><td>-0.67</td><td>53.19</td><td>0.14</td><td>Average</td><td>238</td><td>4</td></tr><tr><td>2</td><td>5150.00</td><td>67.87</td><td>74.00</td><td>-6.13</td><td>67.73</td><td>0.14</td><td>Peak</td><td>238</td><td>4</td></tr><tr><td>3</td><td>10380.00</td><td>56.02</td><td>68.20</td><td>-12.18</td><td>48.96</td><td>7.06</td><td>Peak</td><td>100</td><td>114</td></tr><tr><td>4</td><td>15570.00</td><td>43.89</td><td>54.00</td><td>-10.11</td><td>39.94</td><td>3.95</td><td>Average</td><td>100</td><td>234</td></tr><tr><td>5</td><td>15570.00</td><td>57.60</td><td>74.00</td><td>-16.40</td><td>53.65</td><td>3.95</td><td>Peak</td><td>100</td><td>234</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).											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	5150.00	53.33	54.00	-0.67	53.19	0.14	Average	238	4	2	5150.00	67.87	74.00	-6.13	67.73	0.14	Peak	238	4	3	10380.00	56.02	68.20	-12.18	48.96	7.06	Peak	100	114	4	15570.00	43.89	54.00	-10.11	39.94	3.95	Average	100	234	5	15570.00	57.60	74.00	-16.40	53.65	3.95	Peak	100	234
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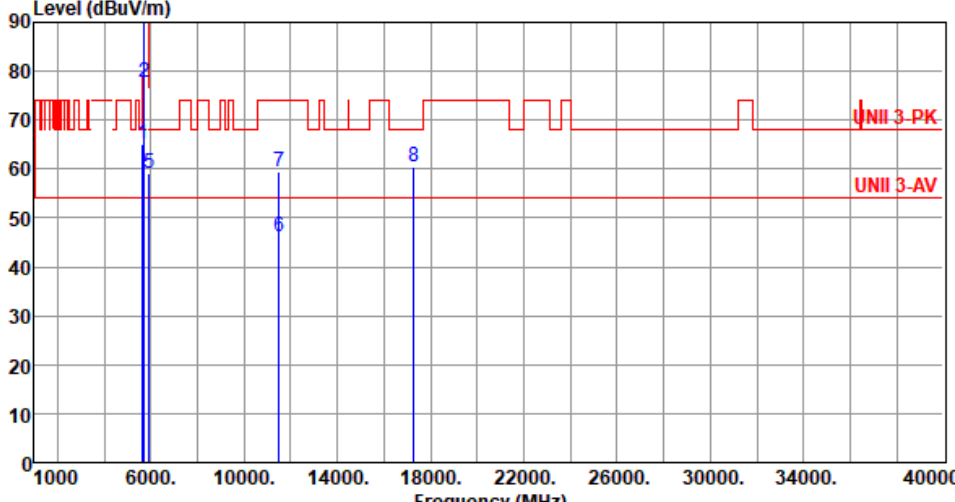


Modulation	ax HE40	Test Freq. (MHz)	5230																																																																																
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Modulation	ax HE40	Test Freq. (MHz)	5755																																																																																										
Polarization	Horizontal																																																																																												
Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																													
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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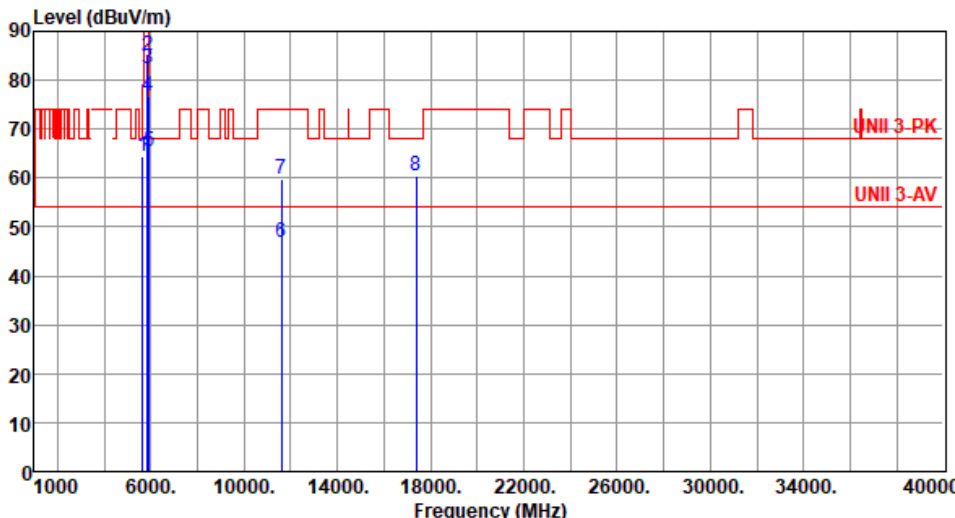


Modulation	ax HE40	Test Freq. (MHz)	5755
Polarization	Vertical		
Test By :Paul Lin Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Modulation	ax HE40		Test Freq. (MHz)		5795																																																																																										
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Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																															
Level (dBUV/m) UNII 3-PK UNII 3-AV 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>5650.00</td><td>64.75</td><td>68.20</td><td>-3.45</td><td>64.61</td><td>0.14</td><td>Peak</td><td>192</td><td>66</td></tr><tr><td>2</td><td>5850.00</td><td>83.81</td><td>122.20</td><td>-38.39</td><td>83.06</td><td>0.75</td><td>Peak</td><td>192</td><td>66</td></tr><tr><td>3</td><td>5855.00</td><td>81.21</td><td>110.80</td><td>-29.59</td><td>80.43</td><td>0.78</td><td>Peak</td><td>192</td><td>66</td></tr><tr><td>4</td><td>5875.00</td><td>77.50</td><td>105.20</td><td>-27.70</td><td>76.63</td><td>0.87</td><td>Peak</td><td>192</td><td>66</td></tr><tr><td>5</td><td>5925.00</td><td>64.28</td><td>68.20</td><td>-3.92</td><td>63.21</td><td>1.07</td><td>Peak</td><td>192</td><td>66</td></tr><tr><td>6</td><td>11590.00</td><td>49.71</td><td>54.00</td><td>-4.29</td><td>42.84</td><td>6.87</td><td>Average</td><td>207</td><td>137</td></tr><tr><td>7</td><td>11590.00</td><td>61.61</td><td>74.00</td><td>-12.39</td><td>54.74</td><td>6.87</td><td>Peak</td><td>207</td><td>137</td></tr><tr><td>8</td><td>17385.00</td><td>62.30</td><td>68.20</td><td>-5.90</td><td>55.97</td><td>6.33</td><td>Peak</td><td>198</td><td>225</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	5650.00	64.75	68.20	-3.45	64.61	0.14	Peak	192	66	2	5850.00	83.81	122.20	-38.39	83.06	0.75	Peak	192	66	3	5855.00	81.21	110.80	-29.59	80.43	0.78	Peak	192	66	4	5875.00	77.50	105.20	-27.70	76.63	0.87	Peak	192	66	5	5925.00	64.28	68.20	-3.92	63.21	1.07	Peak	192	66	6	11590.00	49.71	54.00	-4.29	42.84	6.87	Average	207	137	7	11590.00	61.61	74.00	-12.39	54.74	6.87	Peak	207	137	8	17385.00	62.30	68.20	-5.90	55.97	6.33	Peak	198	225
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Polarization	Vertical																																																																																												
Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																													
Level (dBUV/m)  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>5650.00</td><td>64.27</td><td>68.20</td><td>-3.93</td><td>64.13</td><td>0.14</td><td>Peak</td><td>214</td><td>339</td></tr><tr><td>2</td><td>5850.00</td><td>84.93</td><td>122.20</td><td>-37.27</td><td>84.18</td><td>0.75</td><td>Peak</td><td>214</td><td>339</td></tr><tr><td>3</td><td>5855.00</td><td>82.26</td><td>110.80</td><td>-28.54</td><td>81.48</td><td>0.78</td><td>Peak</td><td>214</td><td>339</td></tr><tr><td>4</td><td>5875.00</td><td>76.61</td><td>105.20</td><td>-28.59</td><td>75.74</td><td>0.87</td><td>Peak</td><td>214</td><td>339</td></tr><tr><td>5</td><td>5925.00</td><td>65.26</td><td>68.20</td><td>-2.94</td><td>64.19</td><td>1.07</td><td>Peak</td><td>214</td><td>339</td></tr><tr><td>6</td><td>11590.00</td><td>46.79</td><td>54.00</td><td>-7.21</td><td>39.92</td><td>6.87</td><td>Average</td><td>192</td><td>155</td></tr><tr><td>7</td><td>11590.00</td><td>59.70</td><td>74.00</td><td>-14.30</td><td>52.83</td><td>6.87</td><td>Peak</td><td>192</td><td>155</td></tr><tr><td>8</td><td>17385.00</td><td>60.36</td><td>68.20</td><td>-7.84</td><td>54.03</td><td>6.33</td><td>Peak</td><td>100</td><td>211</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).					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	5650.00	64.27	68.20	-3.93	64.13	0.14	Peak	214	339	2	5850.00	84.93	122.20	-37.27	84.18	0.75	Peak	214	339	3	5855.00	82.26	110.80	-28.54	81.48	0.78	Peak	214	339	4	5875.00	76.61	105.20	-28.59	75.74	0.87	Peak	214	339	5	5925.00	65.26	68.20	-2.94	64.19	1.07	Peak	214	339	6	11590.00	46.79	54.00	-7.21	39.92	6.87	Average	192	155	7	11590.00	59.70	74.00	-14.30	52.83	6.87	Peak	192	155	8	17385.00	60.36	68.20	-7.84	54.03	6.33	Peak	100	211
	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	5650.00	64.27	68.20	-3.93	64.13	0.14	Peak	214	339																																																																																				
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Unwanted Emissions (Above 1GHz) for ax HE80

Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) <			

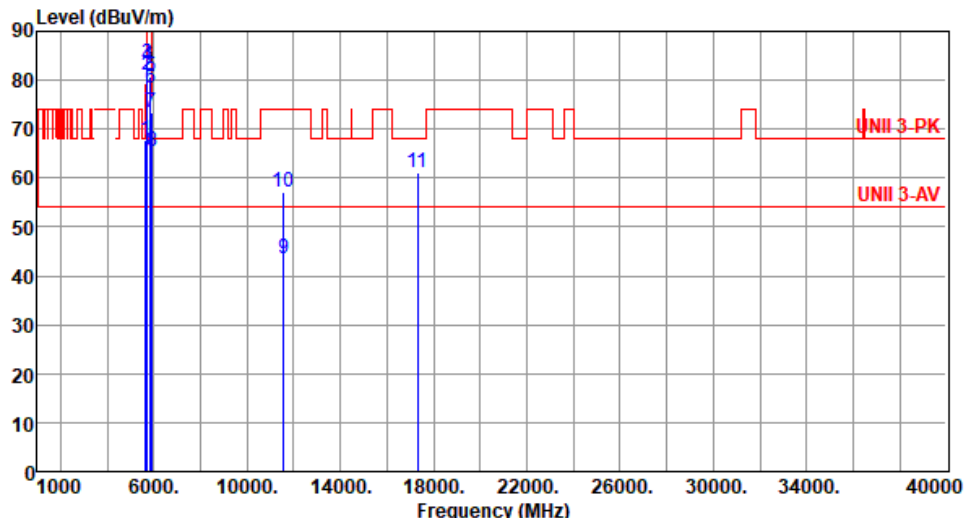


Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):66			
Level (dBuV/m)			



Modulation	ax HE80	Test Freq. (MHz)	5775																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Paul Lin Temperature(°C):24 Humidity(%):64																																																																																																																											
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz) <table><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><tr><td>1</td><td>5650.00</td><td>66.87</td><td>68.20</td><td>-1.33</td><td>66.73</td><td>0.14</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>2</td><td>5700.00</td><td>76.85</td><td>105.20</td><td>-28.35</td><td>76.49</td><td>0.36</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>3</td><td>5720.00</td><td>82.62</td><td>110.80</td><td>-28.18</td><td>82.16</td><td>0.46</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>4</td><td>5725.00</td><td>82.62</td><td>122.20</td><td>-39.58</td><td>82.14</td><td>0.48</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>5</td><td>5850.00</td><td>81.14</td><td>122.20</td><td>-41.06</td><td>80.39</td><td>0.75</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>6</td><td>5855.00</td><td>79.24</td><td>110.80</td><td>-31.56</td><td>78.46</td><td>0.78</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>7</td><td>5875.00</td><td>72.04</td><td>105.20</td><td>-33.16</td><td>71.17</td><td>0.87</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>8</td><td>5925.00</td><td>64.10</td><td>68.20</td><td>-4.10</td><td>63.03</td><td>1.07</td><td>Peak</td><td>278</td><td>68</td></tr><tr><td>9</td><td>11550.00</td><td>43.49</td><td>54.00</td><td>-10.51</td><td>36.48</td><td>7.01</td><td>Average</td><td>100</td><td>216</td></tr><tr><td>10</td><td>11550.00</td><td>56.38</td><td>74.00</td><td>-17.62</td><td>49.37</td><td>7.01</td><td>Peak</td><td>100</td><td>216</td></tr><tr><td>11</td><td>17325.00</td><td>60.58</td><td>68.20</td><td>-7.62</td><td>54.48</td><td>6.10</td><td>Peak</td><td>100</td><td>255</td></tr></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).					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	5650.00	66.87	68.20	-1.33	66.73	0.14	Peak	278	68	2	5700.00	76.85	105.20	-28.35	76.49	0.36	Peak	278	68	3	5720.00	82.62	110.80	-28.18	82.16	0.46	Peak	278	68	4	5725.00	82.62	122.20	-39.58	82.14	0.48	Peak	278	68	5	5850.00	81.14	122.20	-41.06	80.39	0.75	Peak	278	68	6	5855.00	79.24	110.80	-31.56	78.46	0.78	Peak	278	68	7	5875.00	72.04	105.20	-33.16	71.17	0.87	Peak	278	68	8	5925.00	64.10	68.20	-4.10	63.03	1.07	Peak	278	68	9	11550.00	43.49	54.00	-10.51	36.48	7.01	Average	100	216	10	11550.00	56.38	74.00	-17.62	49.37	7.01	Peak	100	216	11	17325.00	60.58	68.20	-7.62	54.48	6.10	Peak	100	255
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																																		
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Modulation	ax HE80	Test Freq. (MHz)	5775						
Polarization	Vertical								
Test By :Paul Lin Temperature(°C):24 Humidity(%):64									
									
	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	5650.00	67.84	68.20	-0.36	67.70	0.14	Peak	194	340
2	5700.00	81.19	105.20	-24.01	80.83	0.36	Peak	194	340
3	5720.00	83.49	110.80	-27.31	83.03	0.46	Peak	194	340
4	5725.00	83.01	122.20	-39.19	82.53	0.48	Peak	194	340
5	5850.00	80.63	122.20	-41.57	79.88	0.75	Peak	194	340
6	5855.00	78.30	110.80	-32.50	77.52	0.78	Peak	194	340
7	5875.00	73.52	105.20	-31.68	72.65	0.87	Peak	194	340
8	5925.00	65.41	68.20	-2.79	64.34	1.07	Peak	194	340
9	11550.00	43.59	54.00	-10.41	36.58	7.01	Average	100	118
10	11550.00	57.19	74.00	-16.81	50.18	7.01	Peak	100	118
11	17325.00	61.16	68.20	-7.04	55.06	6.10	Peak	100	182

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).



Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	5.10	5.47	5.18	5.02
T20°CVmin	4.63	4.78	4.77	4.63
T50°CVnom	9.31	9.10	9.68	10.06
T40°CVnom	5.10	5.64	4.81	4.96
T30°CVnom	3.73	4.38	3.57	3.73
T20°CVnom	5.22	5.62	5.53	5.58
T10°CVnom	3.88	4.75	4.44	4.03
T0°CVnom	3.19	3.30	2.93	3.44
T-10°CVnom	2.24	2.20	2.33	2.37
T-20°CVnom	-0.70	-0.25	-0.28	-0.36
T-30°CVnom	-2.63	-2.64	-2.13	-2.63
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

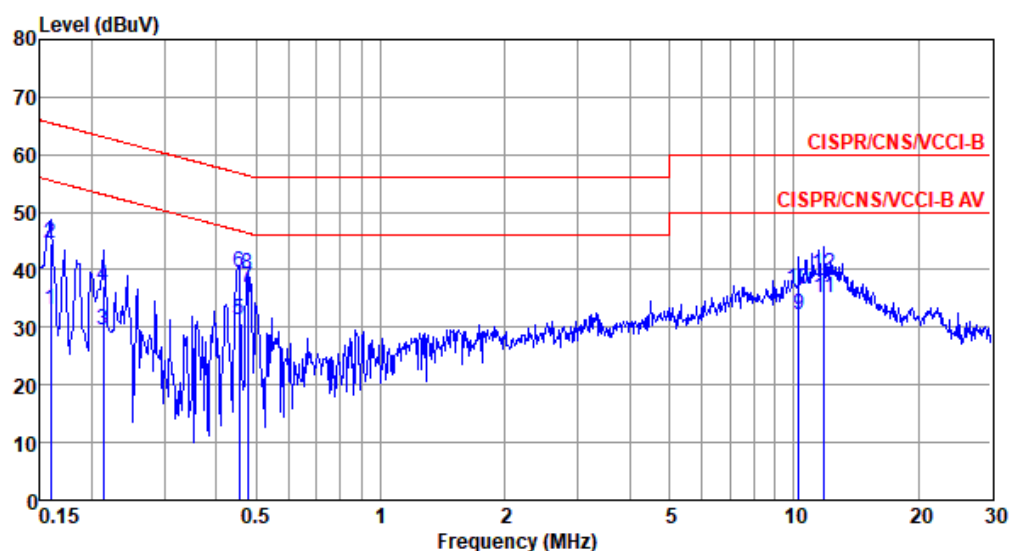
Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	4.15	4.31	4.15	4.08
T20°CVmin	4.31	4.42	4.67	3.95
T50°CVnom	7.79	8.33	8.32	8.21
T40°CVnom	4.77	4.49	4.68	4.31
T30°CVnom	2.84	2.95	2.96	3.15
T20°CVnom	4.30	4.17	4.38	4.81
T10°CVnom	3.35	3.71	3.70	3.10
T0°CVnom	2.14	2.62	2.85	1.86
T-10°CVnom	2.00	2.13	2.04	2.57
T-20°CVnom	-2.41	-2.31	-2.11	-2.35
T-30°CVnom	-2.38	-1.91	-2.09	-2.39
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

Modulation Mode	ax HE20	Test Freq. (MHz)	5240
Power Phase	Line		

Test by : Wish Yu

Temperature: 22°C

Humidity: 62%



	Freq MHz	Level dBuV	Limit dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	33.12	55.52	-22.40	23.47	9.59	0.06	0.00	Average
2	0.159	44.50	65.52	-21.02	34.85	9.59	0.06	0.00	QP
3	0.213	29.41	53.10	-23.69	19.76	9.59	0.06	0.00	Average
4	0.213	37.28	63.10	-25.82	27.63	9.59	0.06	0.00	QP
5	0.454	31.32	46.80	-15.48	21.66	9.59	0.07	0.00	Average
6	0.454	39.67	56.80	-17.13	30.01	9.59	0.07	0.00	QP
7*	0.476	37.04	46.41	-9.37	27.38	9.59	0.07	0.00	Average
8	0.476	39.37	56.41	-17.04	29.71	9.59	0.07	0.00	QP
9	10.288	32.14	50.00	-17.86	22.12	9.65	0.37	0.00	Average
10	10.288	36.73	60.00	-23.27	26.71	9.65	0.37	0.00	QP
11	11.870	35.01	50.00	-14.99	24.98	9.64	0.39	0.00	Average
12	11.870	39.12	60.00	-20.88	29.09	9.64	0.39	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Modulation Mode	ax HE20	Test Freq. (MHz)	5240																																																																																																																																		
Power Phase	Neutral																																																																																																																																				
Test by : Wish Yu Temperature: 22°C Humidity: 62%																																																																																																																																					
Level (dBUV) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBUV</th><th>Limit Line dBUV</th><th>Over Limit dB</th><th>Read Level dBUV</th><th>Factor dB</th><th>Cable loss dB</th><th>Aux dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.156</td><td>31.91</td><td>55.69</td><td>-23.78</td><td>22.25</td><td>9.60</td><td>0.06</td><td>0.00</td><td>Average</td></tr><tr><td>2</td><td>0.156</td><td>45.73</td><td>65.69</td><td>-19.96</td><td>36.07</td><td>9.60</td><td>0.06</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.183</td><td>27.92</td><td>54.33</td><td>-26.41</td><td>18.26</td><td>9.60</td><td>0.06</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.183</td><td>41.55</td><td>64.33</td><td>-22.78</td><td>31.89</td><td>9.60</td><td>0.06</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.449</td><td>29.40</td><td>46.89</td><td>-17.49</td><td>19.73</td><td>9.60</td><td>0.07</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.449</td><td>34.96</td><td>56.89</td><td>-21.93</td><td>25.29</td><td>9.60</td><td>0.07</td><td>0.00</td><td>QP</td></tr><tr><td>7*</td><td>0.474</td><td>31.85</td><td>46.45</td><td>-14.60</td><td>22.18</td><td>9.60</td><td>0.07</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>0.474</td><td>38.43</td><td>56.45</td><td>-18.02</td><td>28.76</td><td>9.60</td><td>0.07</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>11.080</td><td>34.40</td><td>50.00</td><td>-15.60</td><td>24.35</td><td>9.67</td><td>0.38</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>11.080</td><td>38.50</td><td>60.00</td><td>-21.50</td><td>28.45</td><td>9.67</td><td>0.38</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>11.870</td><td>34.53</td><td>50.00</td><td>-15.47</td><td>24.47</td><td>9.67</td><td>0.39</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>11.870</td><td>38.96</td><td>60.00</td><td>-21.04</td><td>28.90</td><td>9.67</td><td>0.39</td><td>0.00</td><td>QP</td></tr></tbody></table>					Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.156	31.91	55.69	-23.78	22.25	9.60	0.06	0.00	Average	2	0.156	45.73	65.69	-19.96	36.07	9.60	0.06	0.00	QP	3	0.183	27.92	54.33	-26.41	18.26	9.60	0.06	0.00	Average	4	0.183	41.55	64.33	-22.78	31.89	9.60	0.06	0.00	QP	5	0.449	29.40	46.89	-17.49	19.73	9.60	0.07	0.00	Average	6	0.449	34.96	56.89	-21.93	25.29	9.60	0.07	0.00	QP	7*	0.474	31.85	46.45	-14.60	22.18	9.60	0.07	0.00	Average	8	0.474	38.43	56.45	-18.02	28.76	9.60	0.07	0.00	QP	9	11.080	34.40	50.00	-15.60	24.35	9.67	0.38	0.00	Average	10	11.080	38.50	60.00	-21.50	28.45	9.67	0.38	0.00	QP	11	11.870	34.53	50.00	-15.47	24.47	9.67	0.39	0.00	Average	12	11.870	38.96	60.00	-21.04	28.90	9.67	0.39	0.00	QP
	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
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8	0.474	38.43	56.45	-18.02	28.76	9.60	0.07	0.00	QP																																																																																																																												
9	11.080	34.40	50.00	-15.60	24.35	9.67	0.38	0.00	Average																																																																																																																												
10	11.080	38.50	60.00	-21.50	28.45	9.67	0.38	0.00	QP																																																																																																																												
11	11.870	34.53	50.00	-15.47	24.47	9.67	0.39	0.00	Average																																																																																																																												
12	11.870	38.96	60.00	-21.04	28.90	9.67	0.39	0.00	QP																																																																																																																												
Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).																																																																																																																																					



Modulation Mode	11a	Test Freq. (MHz)	5785																																																																																																																																		
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