

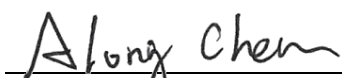
FCC Test Report

FCC ID : 2AL6XWAP581
Equipment : 802.11ax 2x2 2-Streams Dual Concurrent
Dual radios Wall Plate Access Point
(Please refer to section 1.1.1 for more details)
Model No. : WAP581
(Please refer to section 1.1.1 for more details)
Brand Name : Emplus
(Please refer to section 1.1.1 for more details)
Applicant : Emplus Technologies, Inc
Address : Bld B, 10F, No.209, Sec.1, Nangang Rd. Taipei City
Taiwan
Standard : 47 CFR FCC Part 15.407
Received Date : Dec. 08, 2021
Tested Date : Apr. 26 ~ May 09, 2022

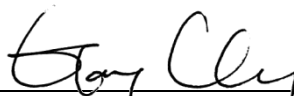
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR1D0803AN	Rev. 01	Initial issue	Jun. 02, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.524MHz 39.34 (Margin -6.66dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5650.00MHz 67.80 (Margin -0.40dB) - PK	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: 21.83 5725-5850MHz: 21.53 Beamforming mode 5150-5250MHz: 18.75 5725-5850MHz: 18.34	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 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Emplus	WAP581	802.11ax 2x2 2-Streams Dual Concurrent Dual radios Wall Plate Access Point	For marketing purpose.
EnGenius	ECW215	802.11ax Cloud Managed AP	
✦ All models are electrically identical, different model names are for marketing purpose. ✦ The above models, model WAP581 was selected as a representative one for the final test and only its data was recorded in this report.			

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-15
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-15
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	2	MCS 0-9
5150-5250 5725-5850	ax (HE20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-11
5150-5250 5725-5850	ax (HE40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-11
5150-5250 5725-5850	ax (HE80)	5210 5775	42 [1] 155 [1]	2	MCS 0-11
Note 1: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation. Note 2: 802.11n/ac/ax supports beamforming function.					

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
				2400~2483.5	5150~5250	5725~5850
1	2.4G-1	Dipole	UFL	4.7	---	---
2	2.4G-2	Dipole	UFL	4.2	---	---
3	5G-1	Dipole	UFL	---	6.1	7
4	5G-2	Dipole	UFL	---	6.5	6.1

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12V $\overline{=}$ from AC adapter 54V $\overline{=}$ from POE
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1.1.5 Accessories

N/A

1.1.6 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	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	-	-

1.1.7 Test Tool and Duty Cycle

Test Tool	QPSR, Version: V5.0-00197		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	94.60%	0.24
	ax HE20	92.75%	0.33
	ax HE40	85.74%	0.67
	ax HE80	63.18%	1.99

1.1.8 Power Index of Test Tool

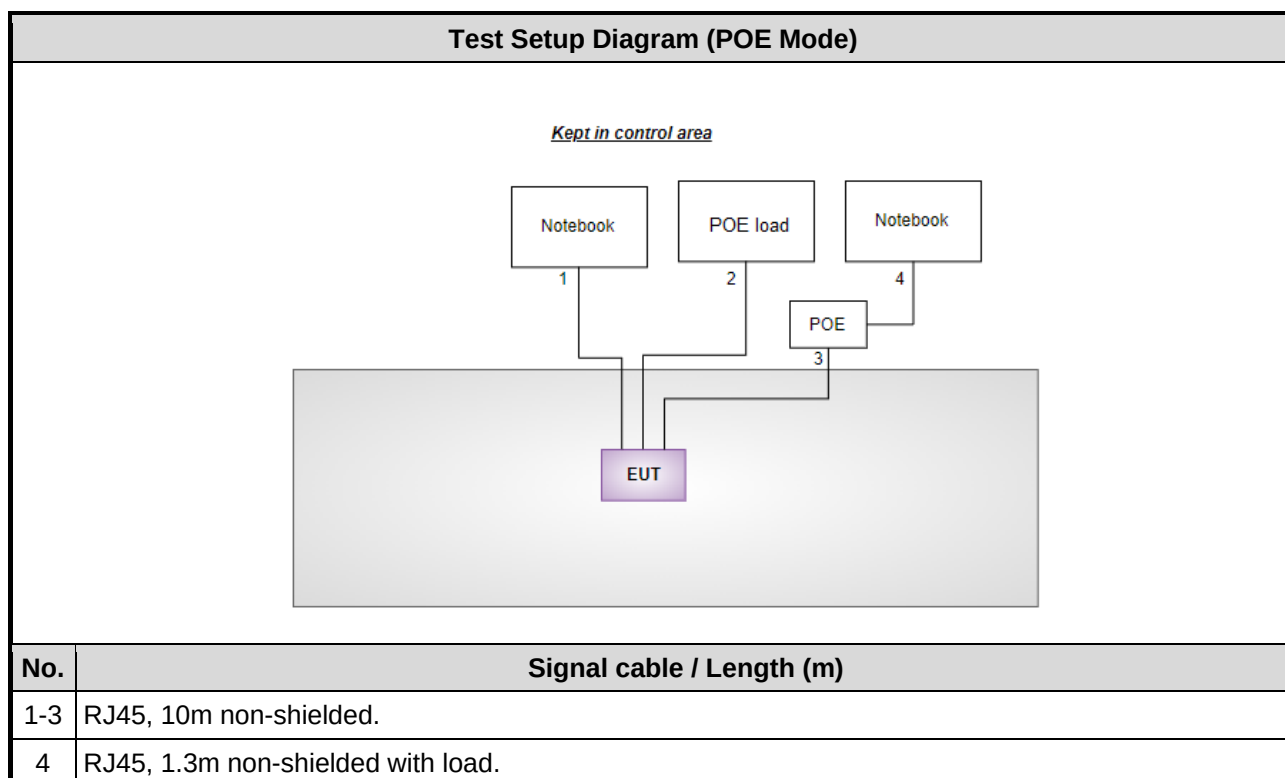
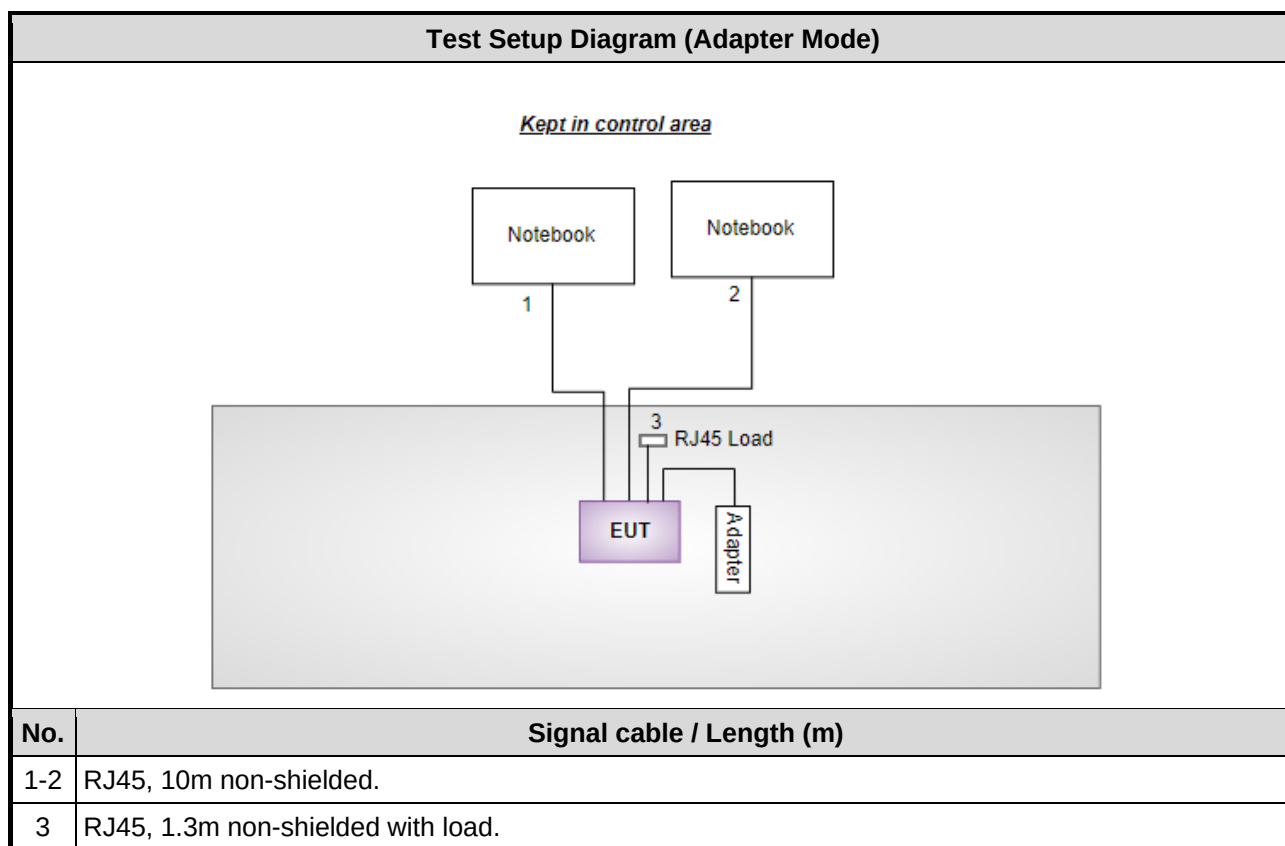
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	16
11a	5200	18.5
11a	5240	18
11a	5745	18.5
11a	5785	19
11a	5825	19.5
ax HE20	5180	16
ax HE20	5200	18.5
ax HE20	5240	18.5
ax HE20	5745	18.5
ax HE20	5785	19
ax HE20	5825	19.5
ax HE40	5190	13
ax HE40	5230	16.5
ax HE40	5755	16.5
ax HE40	5795	17.5
ax HE80	5210	12
ax HE80	5775	15.5

1.2 Local Support Equipment List

Support Equipment List (Adapter Mode)					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Notebook	DELL	Latitude E5470	DoC	---
3	RJ45 Load	ICC	DTSE9	---	---
4	Power Adapter	LEADER	MU18D1120150 -A1	---	Remarks: I/P: 100-240V~, 50-60Hz, 0.5A Max. O/P: 12V=1.5A (Provided by applicant.)

Support Equipment List (POE Mode)					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Notebook	DELL	Latitude E5470	DoC	---
3	POE	Engenius	EPA5006GAT	---	Remarks: I/P: 100-240V~, 50-60Hz, 0.8A O/P: 54V=0.6A (Provided by applicant.)
4	POE load	Emplus	WAP581	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	May 04, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	NSLK 8127	8127667	Jan. 07, 2022	Jan. 06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Apr. 26 ~ Apr. 29, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	May 06, 2021	May 05, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	May 09, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
Measurement Software	Sporton	SENSE-15247_DTS	V5.10.7.18	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	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

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

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- 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				
Conducted Emissions	11a	5200	6 Mbps	1, 2
Radiated Emissions ≤1GHz	11a	5200	6 Mbps	1, 2
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a ax HE20 ax HE40 ax HE80	5180 / 5200 / 5240 5180 / 5200 / 5240 5190 / 5230 5210	6 Mbps MCS 0 MCS 0 MCS 0	1
Frequency Stability	Un-modulation	5200	---	1
Beamforming mode				
RF Output Power	ax HE20 ax HE40 ax HE80	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 MCS 0	1
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
Conducted Emissions	11a	5825	6 Mbps	1, 2
Radiated Emissions ≤1GHz	11a	5825	6 Mbps	1, 2
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a ax HE20 ax HE40 ax HE80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	1
Frequency Stability	Un-modulation	5785	---	1
Beamforming mode				
RF Output Power	ax HE20 ax HE40 ax HE80	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	1
NOTE: 1. Test configurations are listed as below: 1) Configuration 1: Adapter mode 2) Configuration 2: POE mode				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit 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.

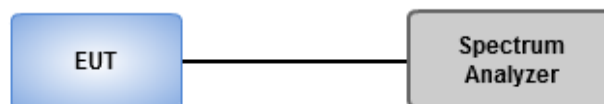
Occupied Bandwidth

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	24°C / 67%	Tested By	Aska Huang
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	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	24°C / 67%	Tested By	Aska Huang
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Peak 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 $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

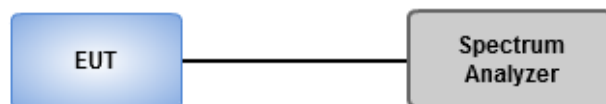
Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

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

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	24°C / 67%	Tested By	Aska Huang
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 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

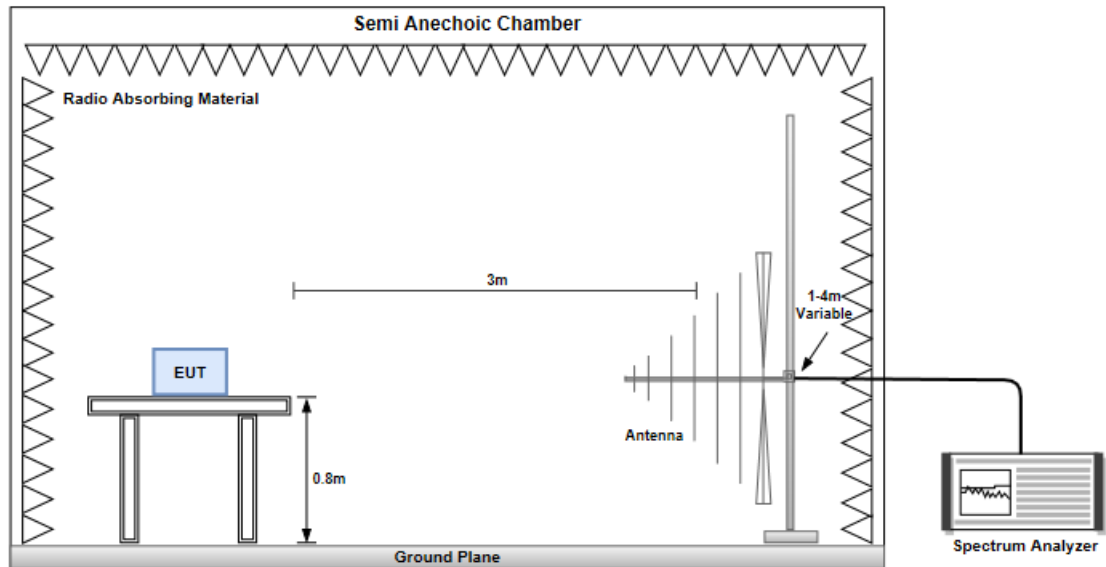
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

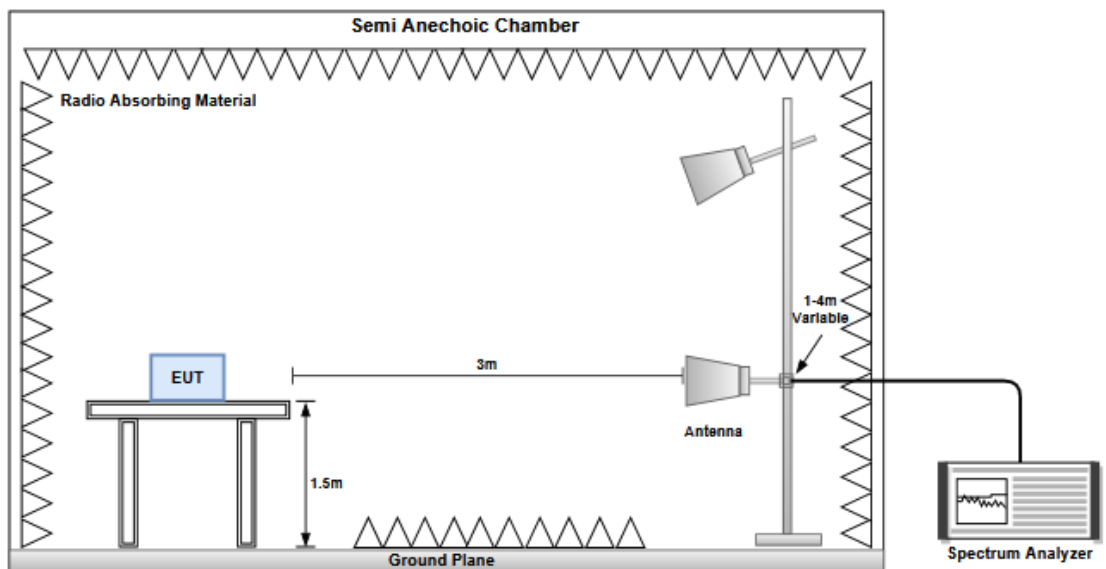
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

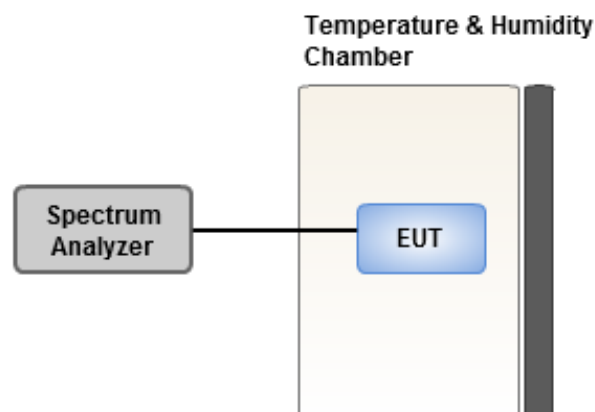
3.5.1 Limit of Frequency Stability

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	24°C / 67%	Tested By	Aska Huang
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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

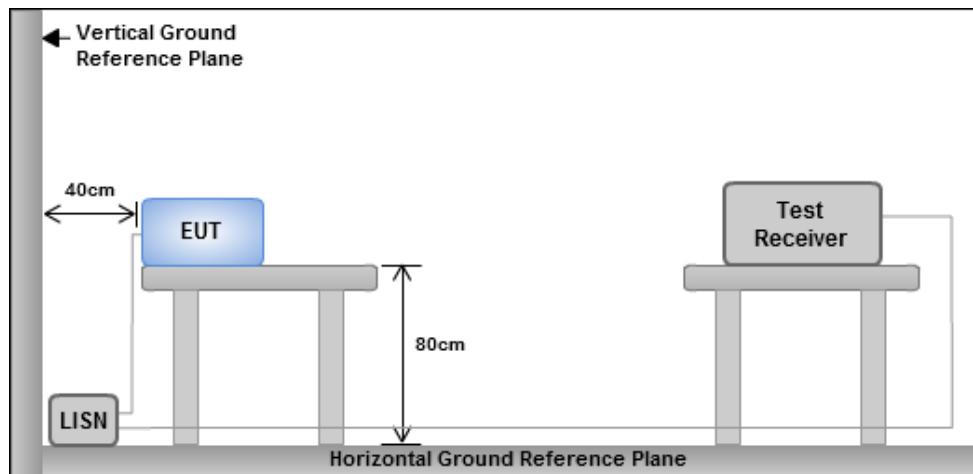
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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 333, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.17M	16.672M	16M7D1D	18.75M	16.222M
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	28.53M	19.07M	19M1D1D	20.58M	18.801M
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	40.26M	37.781M	37M8D1D	39.96M	37.601M
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	81.12M	76.762M	76M8D1D	80.64M	76.642M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15.09M	16.912M	16M9D1D	13.74M	16.282M
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	15.03M	19.19M	19M2D1D	13.71M	18.831M
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	34.98M	38.021M	38M0D1D	27.6M	37.541M
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	61.32M	76.882M	76M9D1D	55.08M	76.642M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth

Result

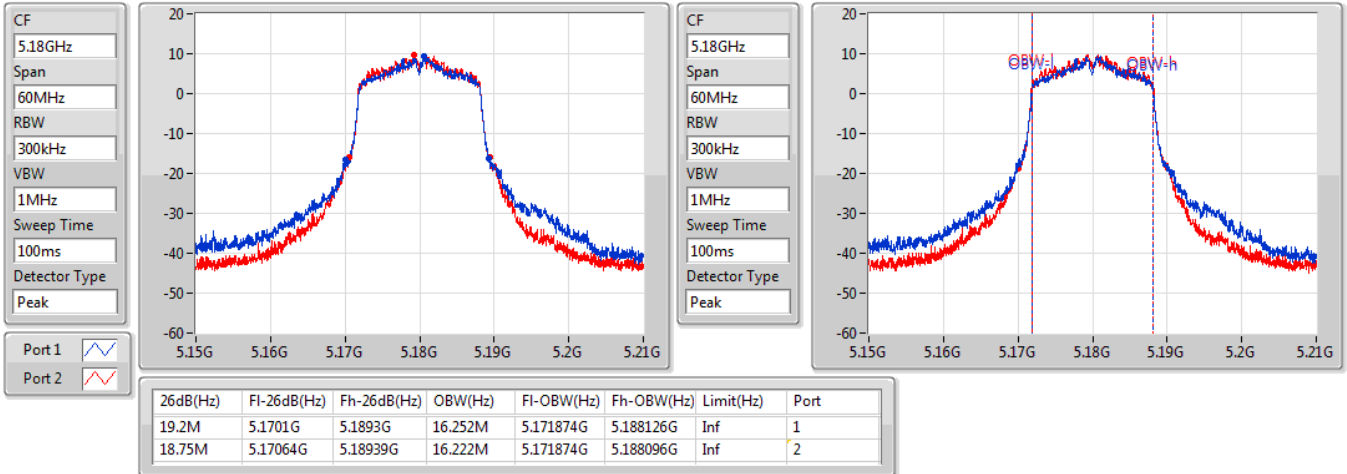
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.2M	16.252M	18.75M	16.222M
5200MHz	Pass	Inf	25.17M	16.672M	19.35M	16.252M
5240MHz	Pass	Inf	21.96M	16.342M	19.17M	16.252M
5745MHz	Pass	500k	15.09M	16.432M	15.03M	16.282M
5785MHz	Pass	500k	14.43M	16.492M	15M	16.282M
5825MHz	Pass	500k	13.74M	16.912M	15.06M	16.312M
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.58M	18.861M	20.85M	18.801M
5200MHz	Pass	Inf	28.53M	19.07M	20.82M	18.831M
5240MHz	Pass	Inf	27.33M	18.951M	21.09M	18.861M
5745MHz	Pass	500k	13.74M	18.861M	15.03M	18.831M
5785MHz	Pass	500k	14.97M	18.951M	13.71M	18.921M
5825MHz	Pass	500k	13.77M	19.19M	14.94M	18.921M
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.601M	40.26M	37.661M
5230MHz	Pass	Inf	40.14M	37.781M	39.96M	37.661M
5755MHz	Pass	500k	33.84M	37.721M	27.6M	37.541M
5795MHz	Pass	500k	34.98M	38.021M	33.72M	37.601M
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.12M	76.762M	80.64M	76.642M
5775MHz	Pass	500k	55.08M	76.882M	61.32M	76.642M

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

802.11a_Nss1,(6Mbps)_2TX

EBW

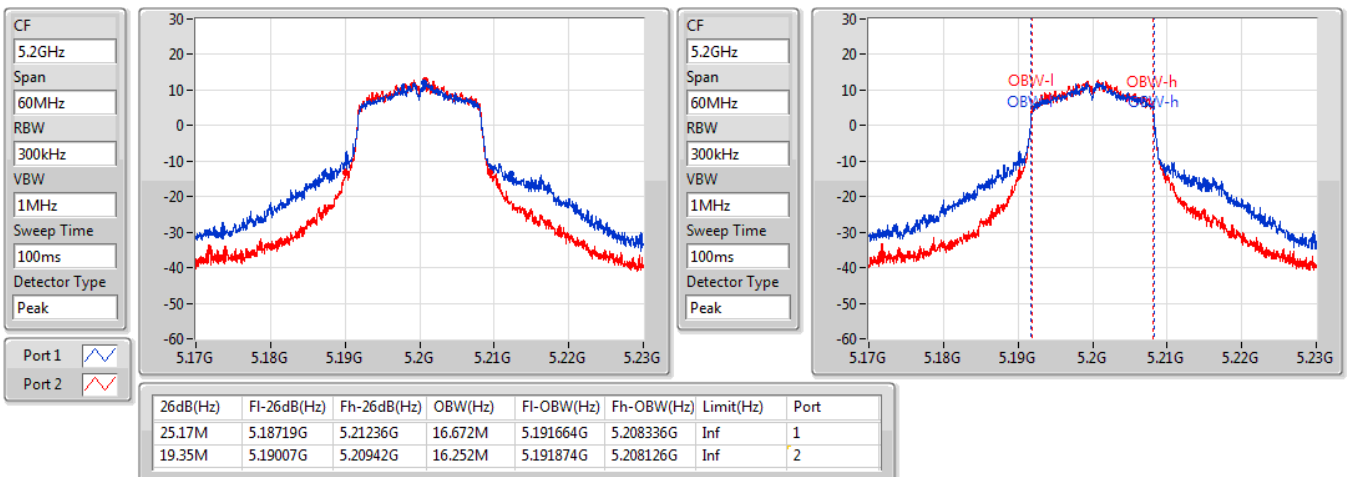
5180MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

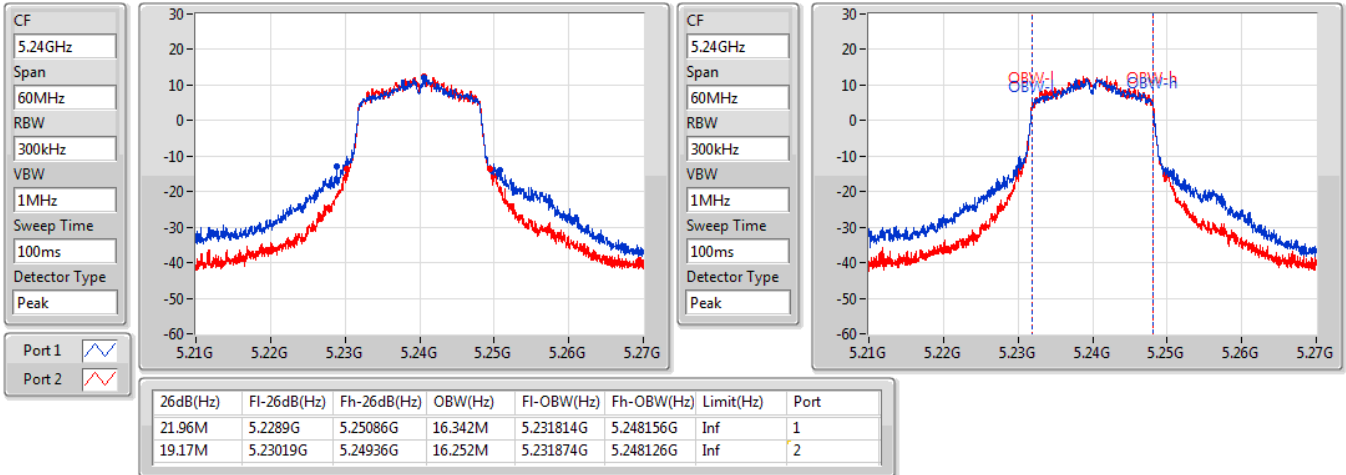
5200MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

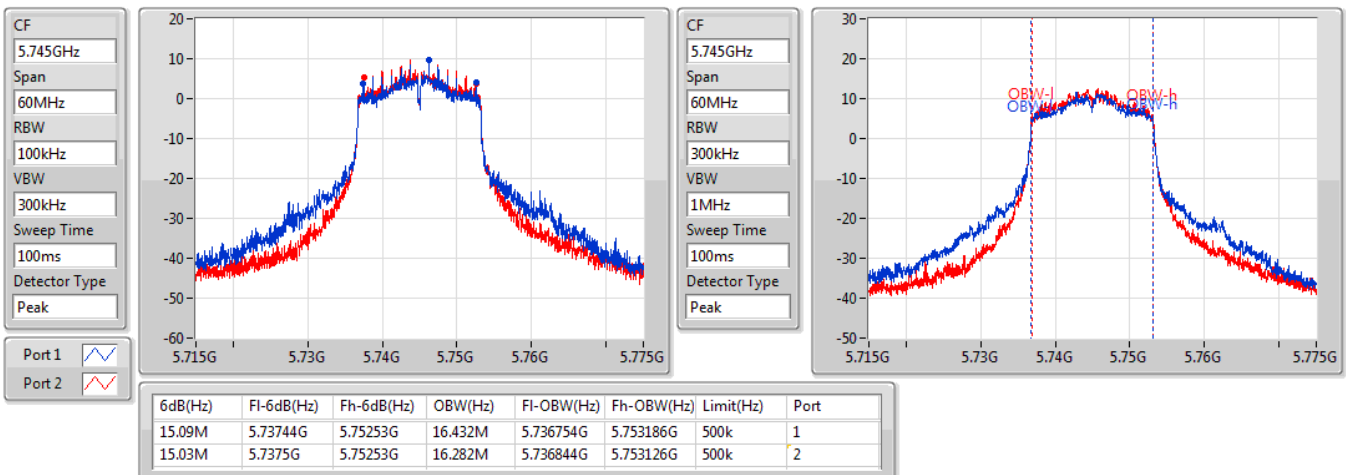
5240MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

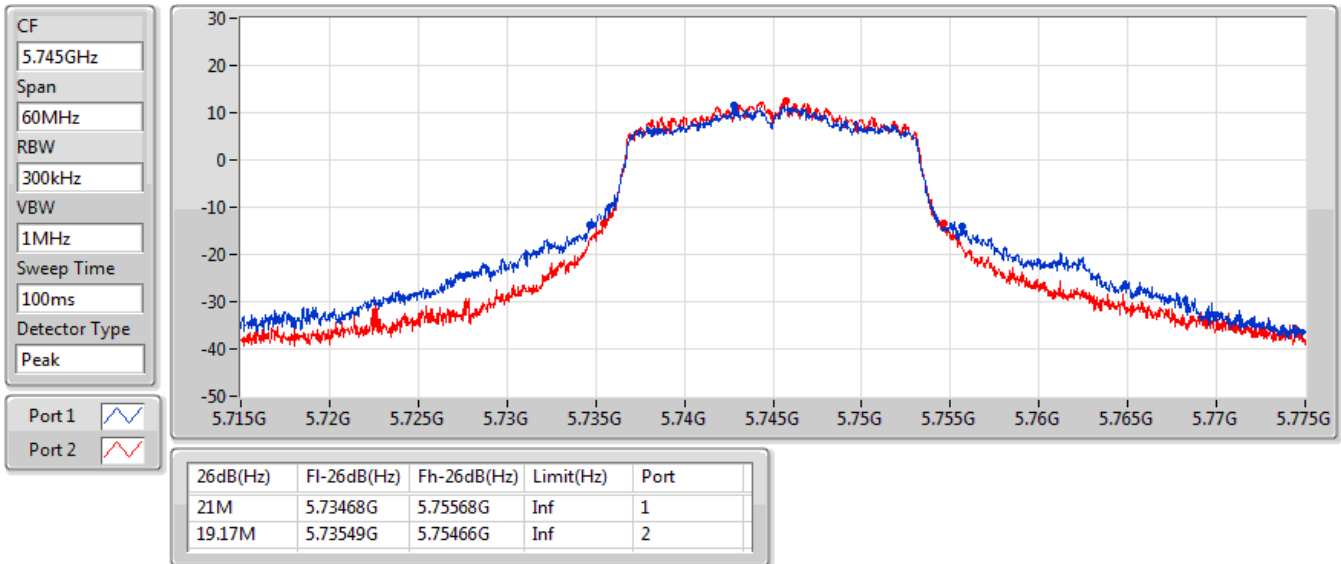
5745MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

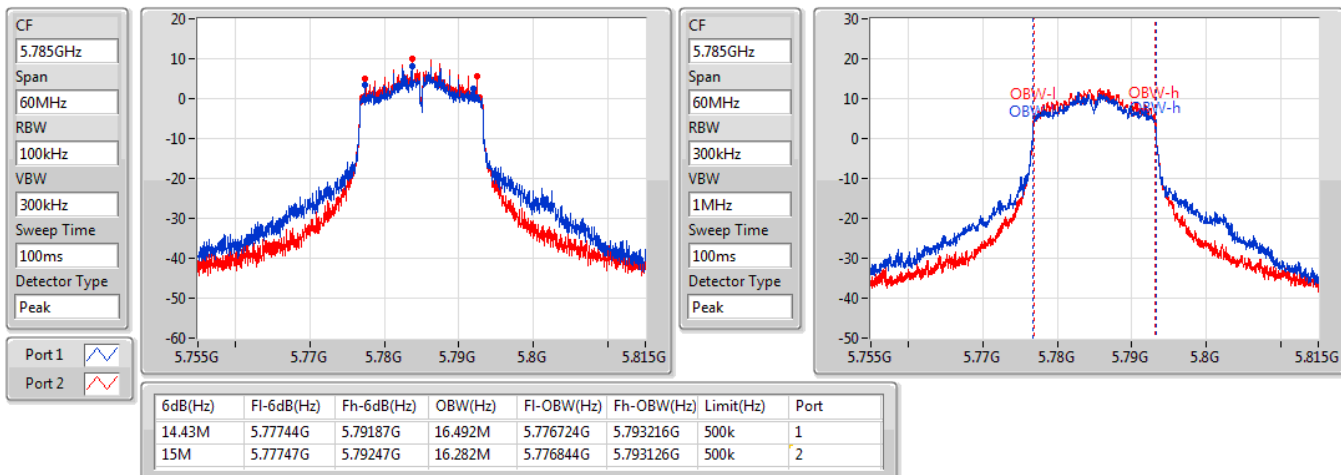
5745MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

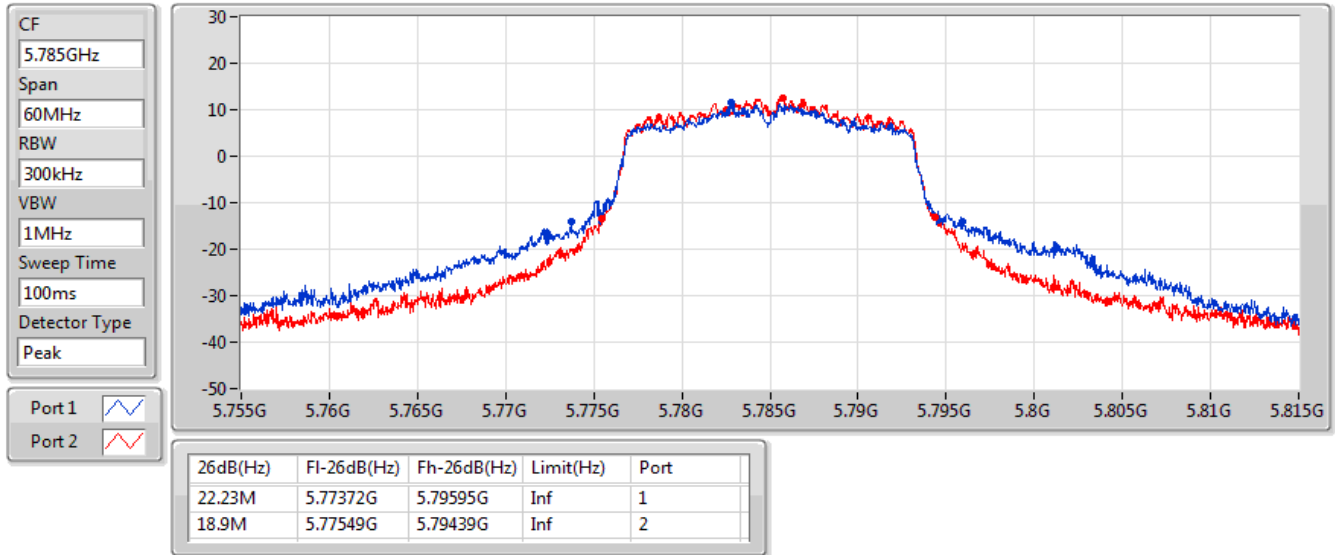
5785MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

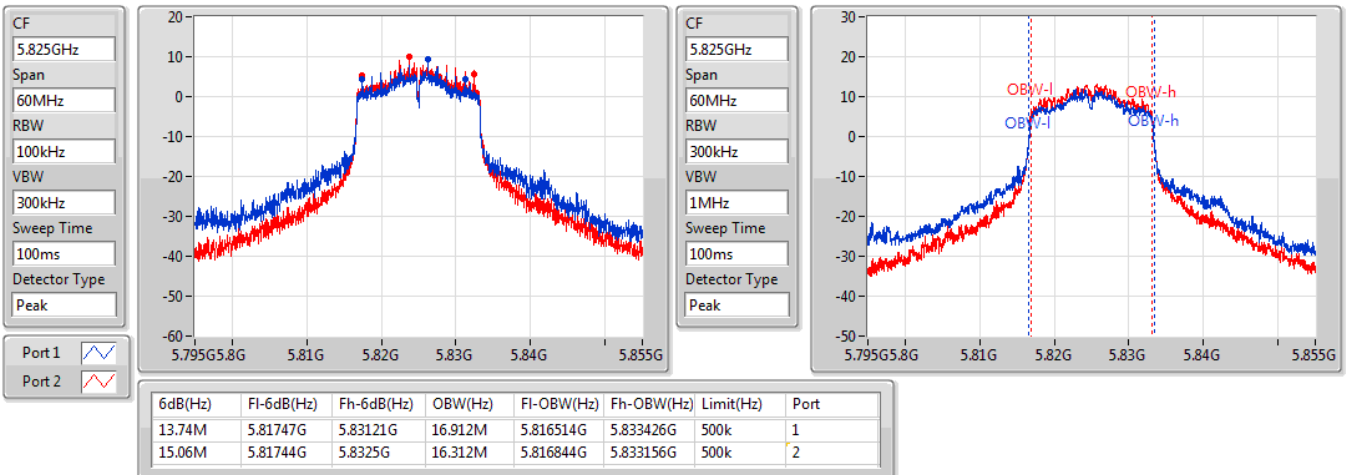
5785MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

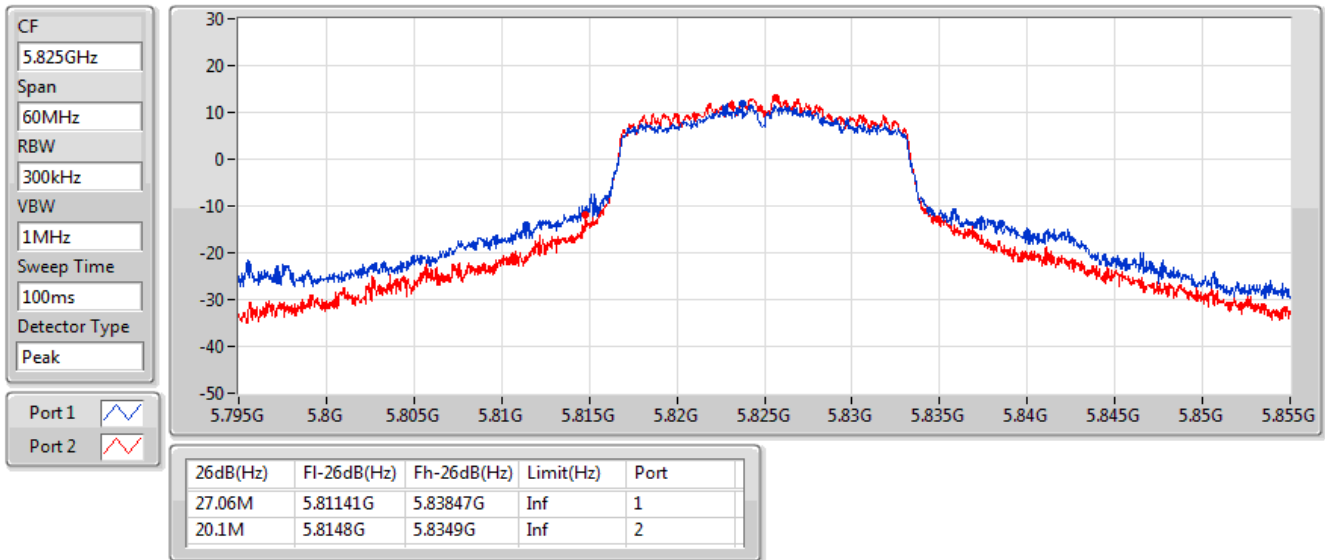
5825MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

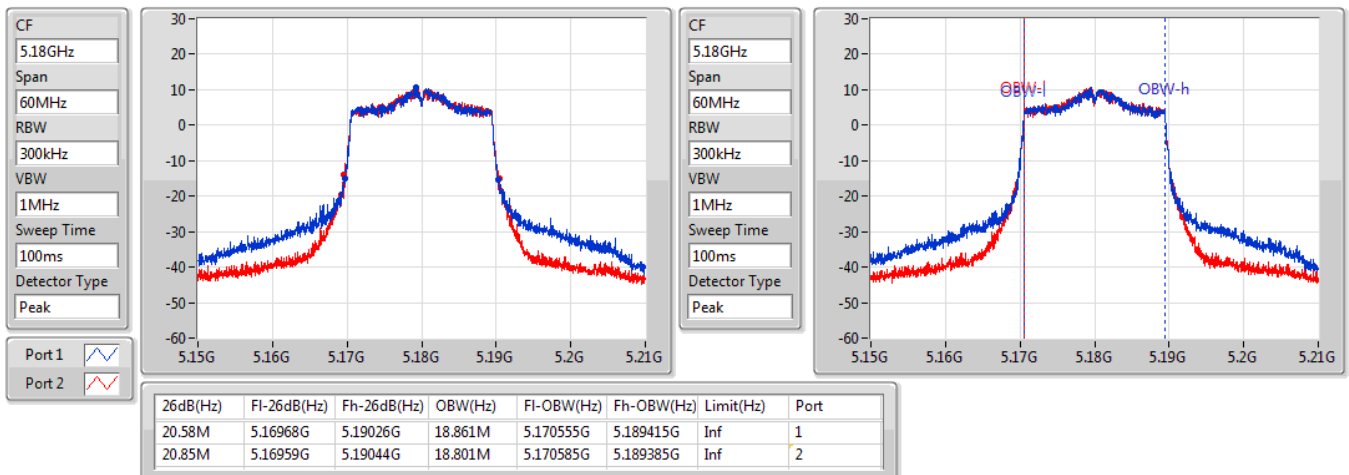
5825MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

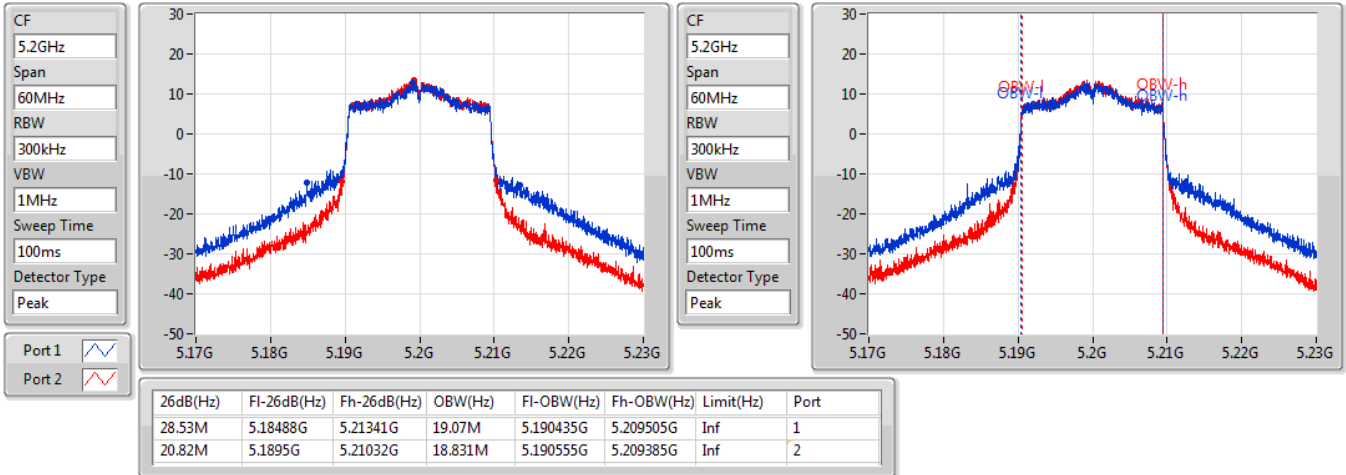
5180MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

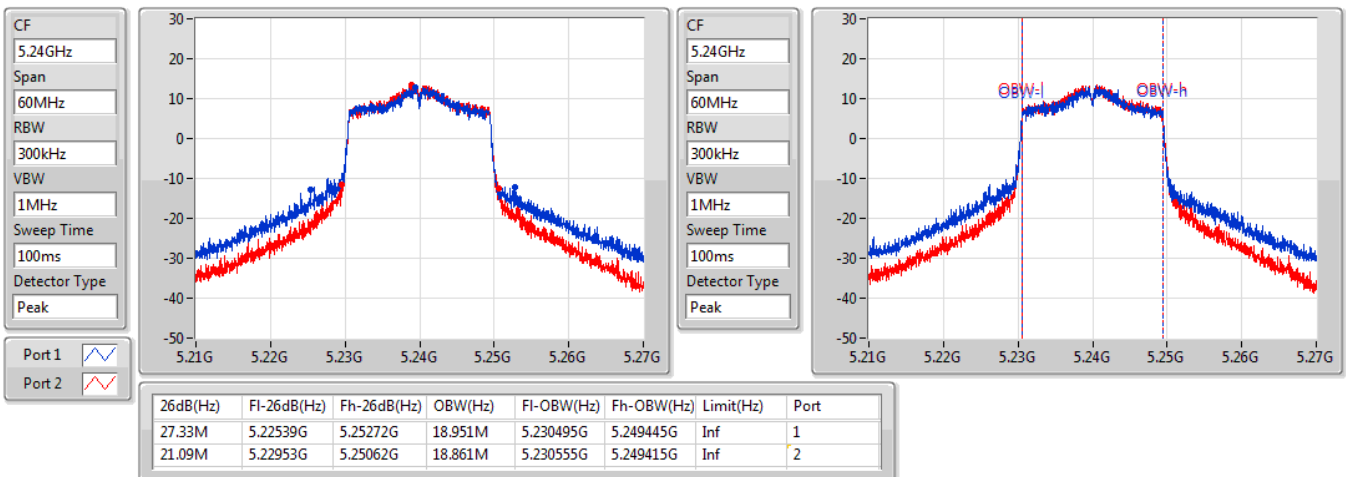
5200MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

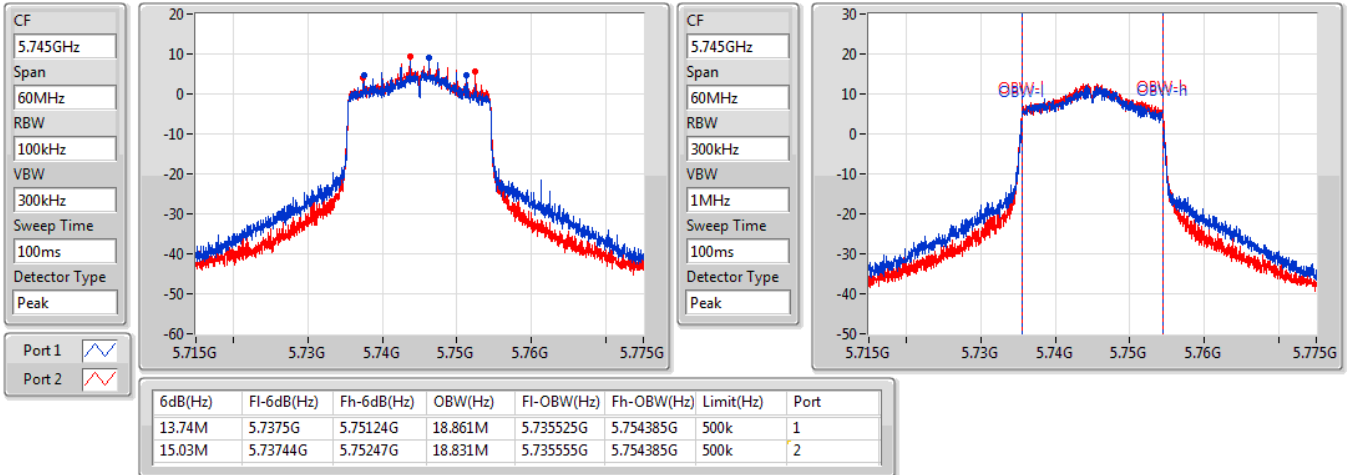
5240MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

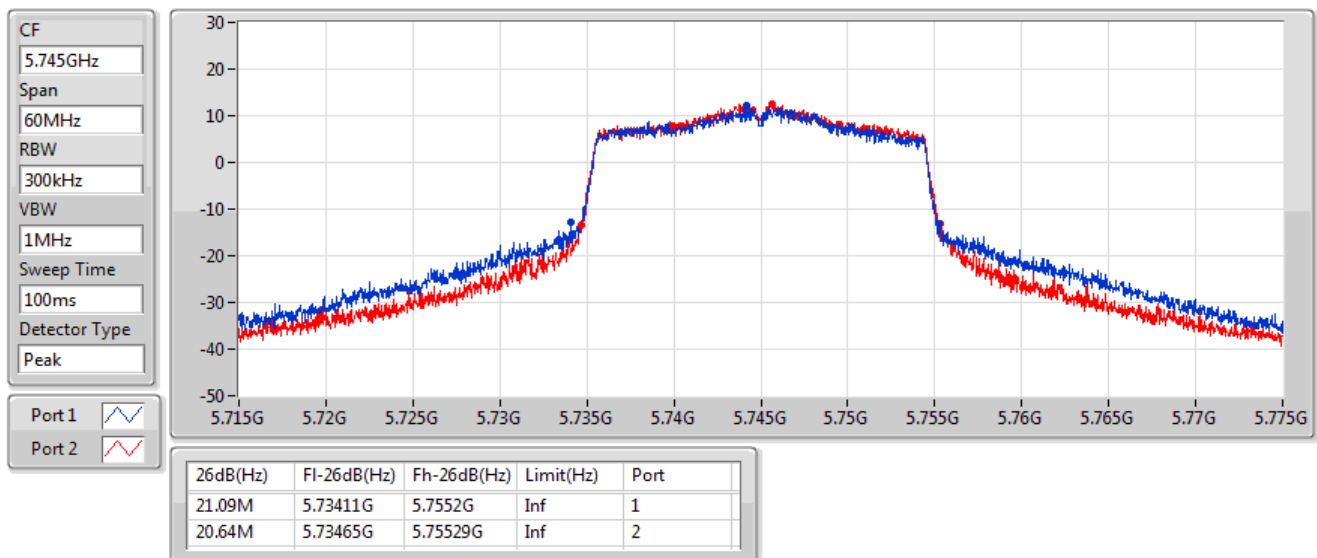
5745MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

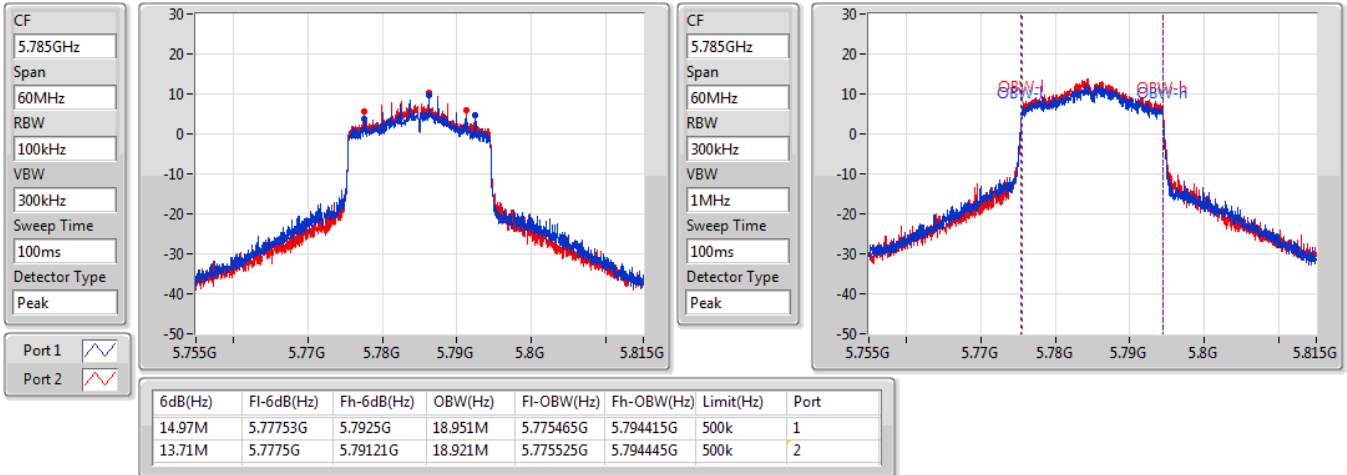
5745MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

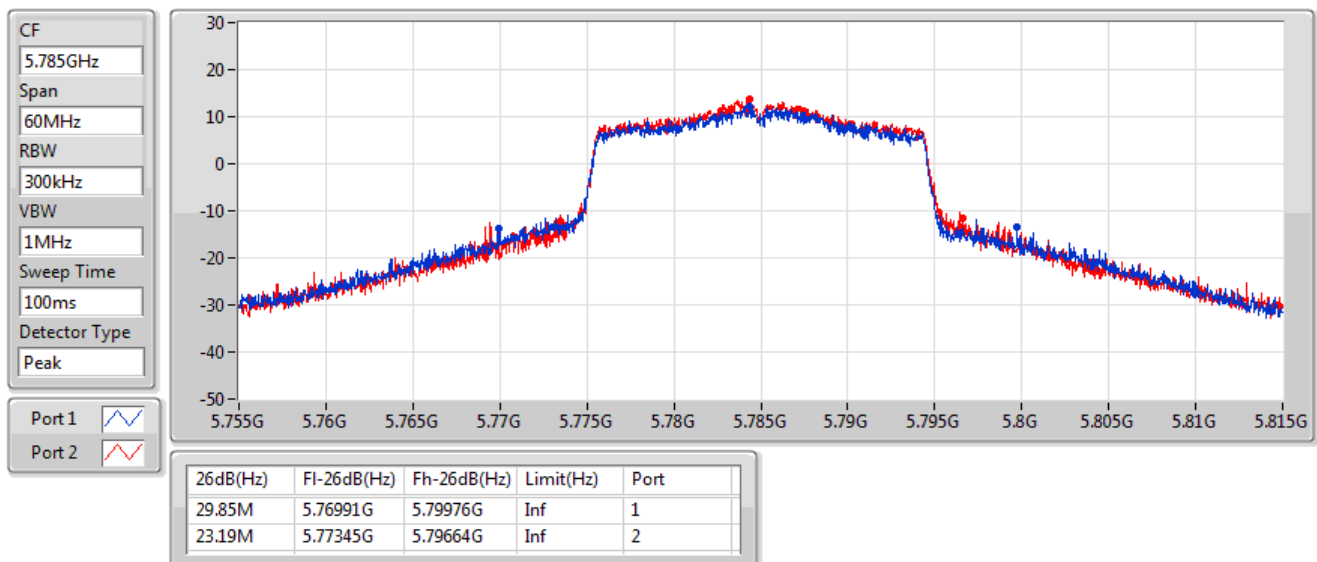
5785MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

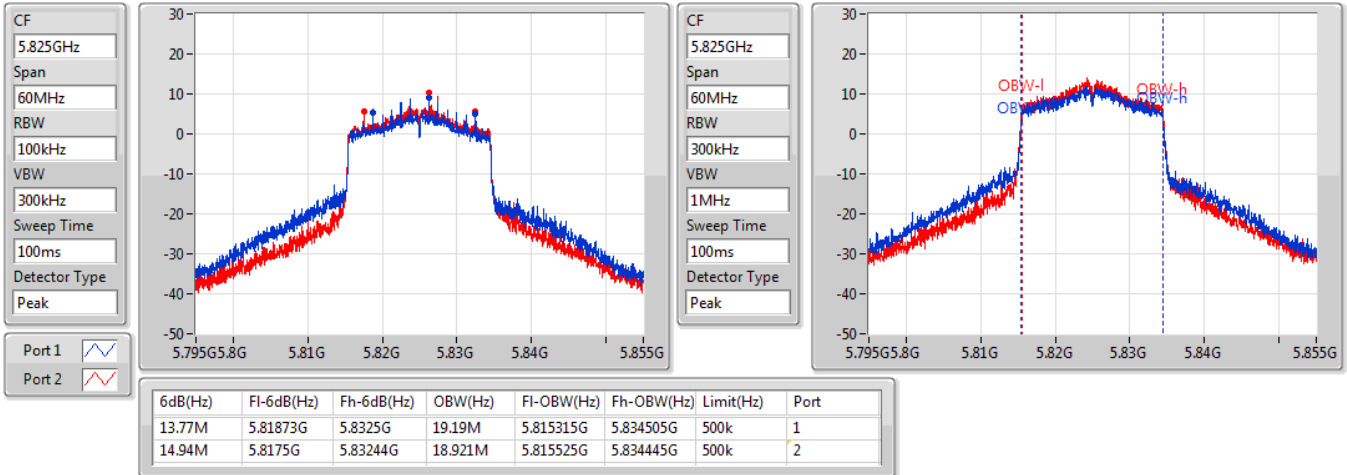
5785MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

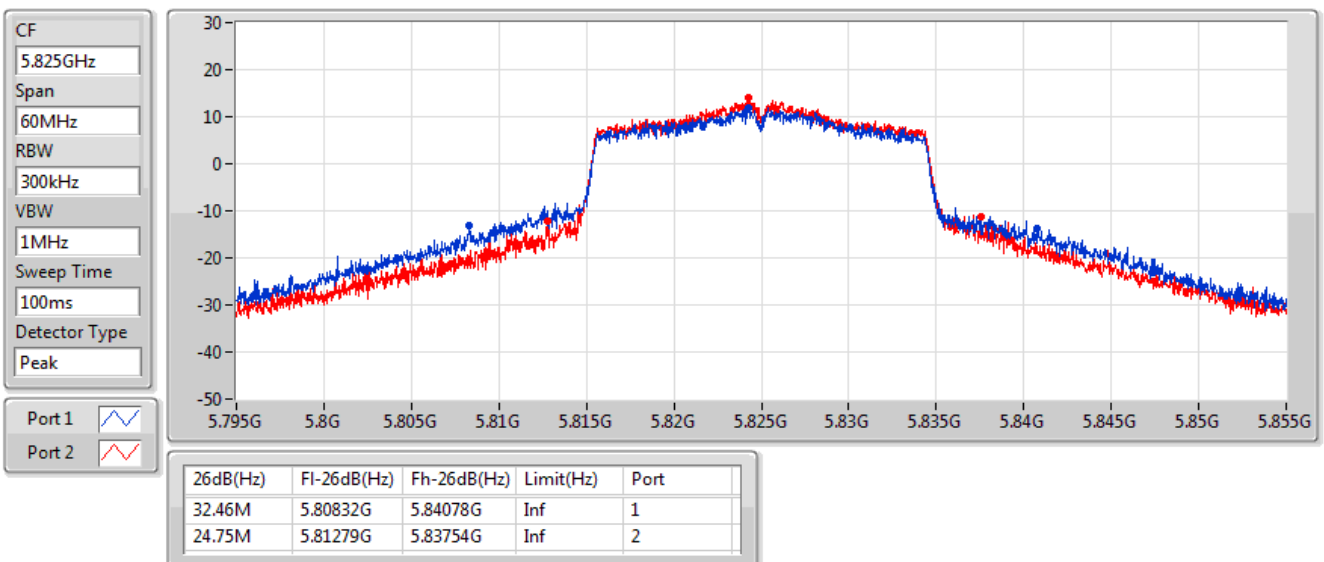
5825MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

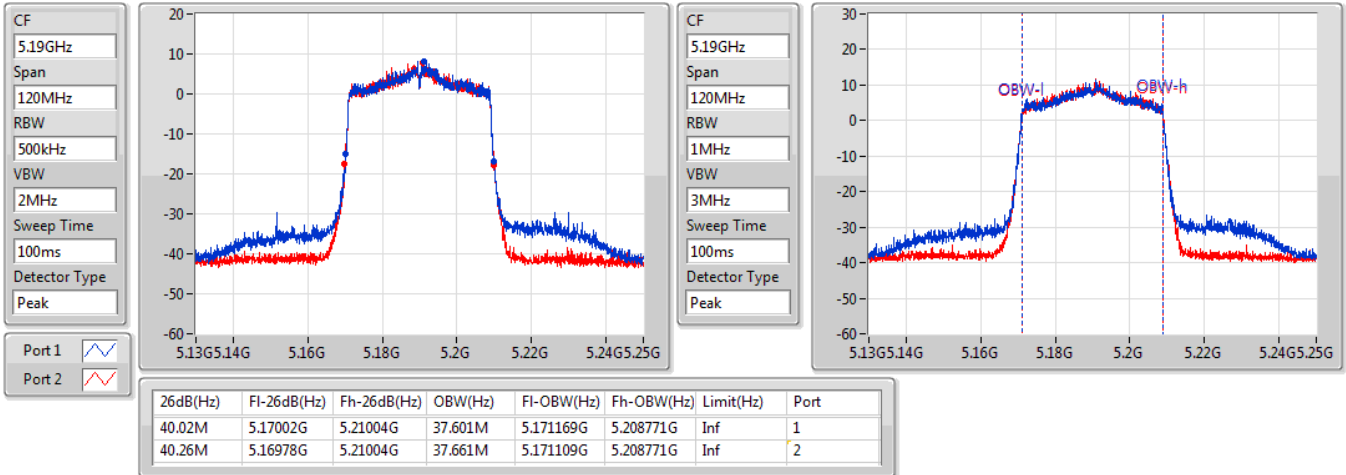
5825MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

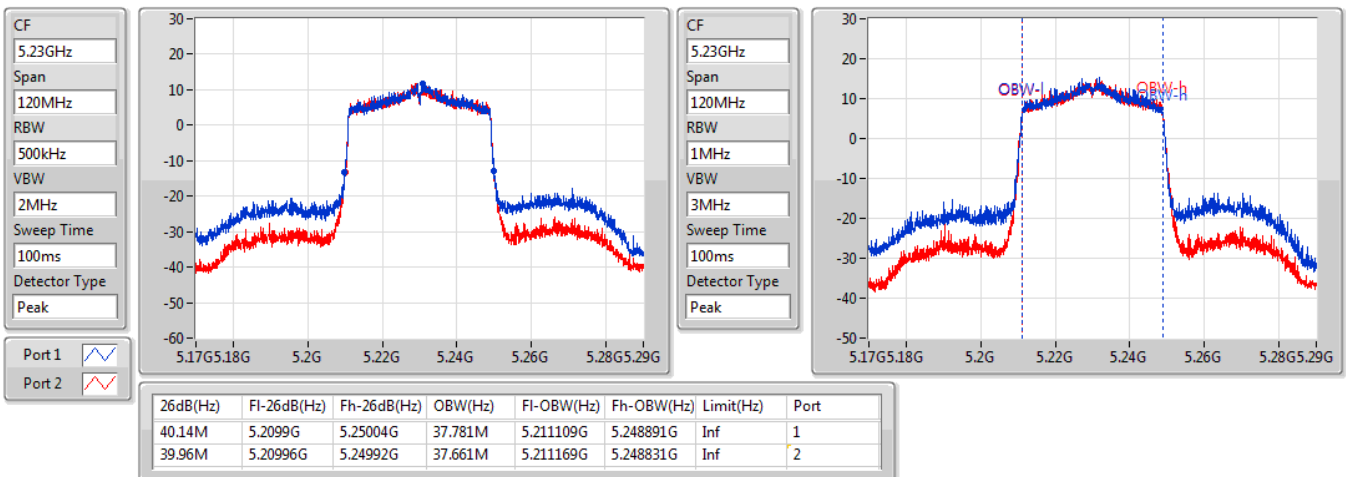
5190MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

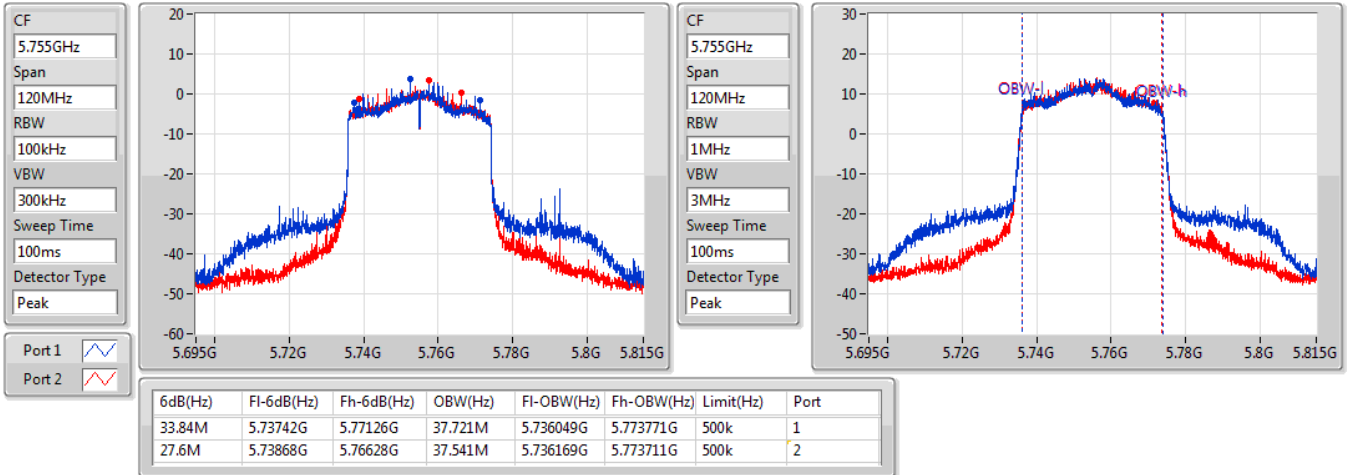
5230MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

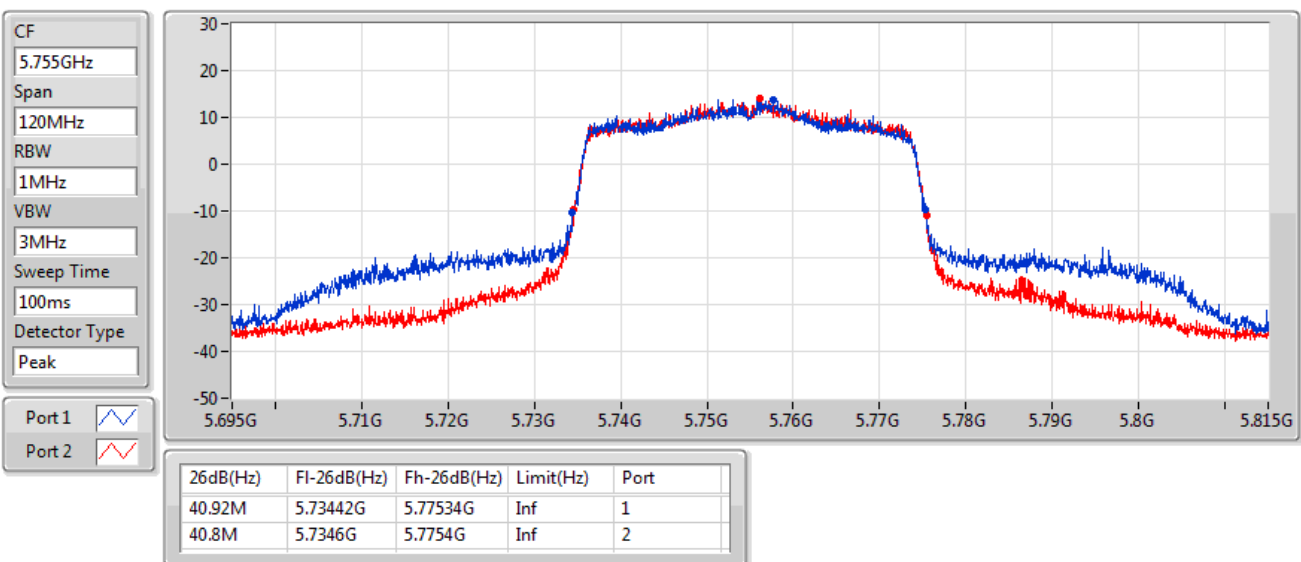
5755MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

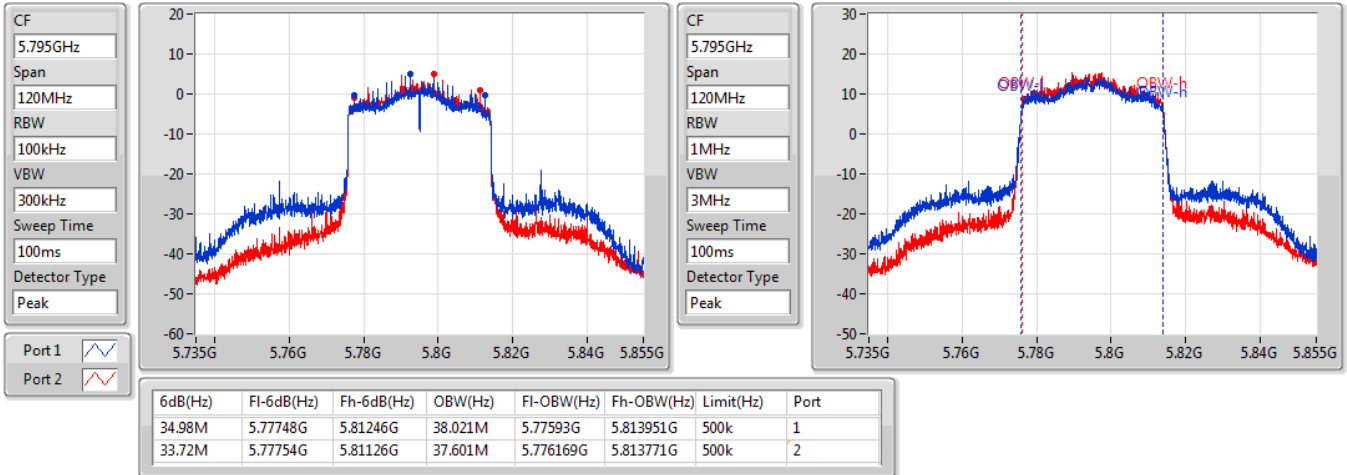
5755MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

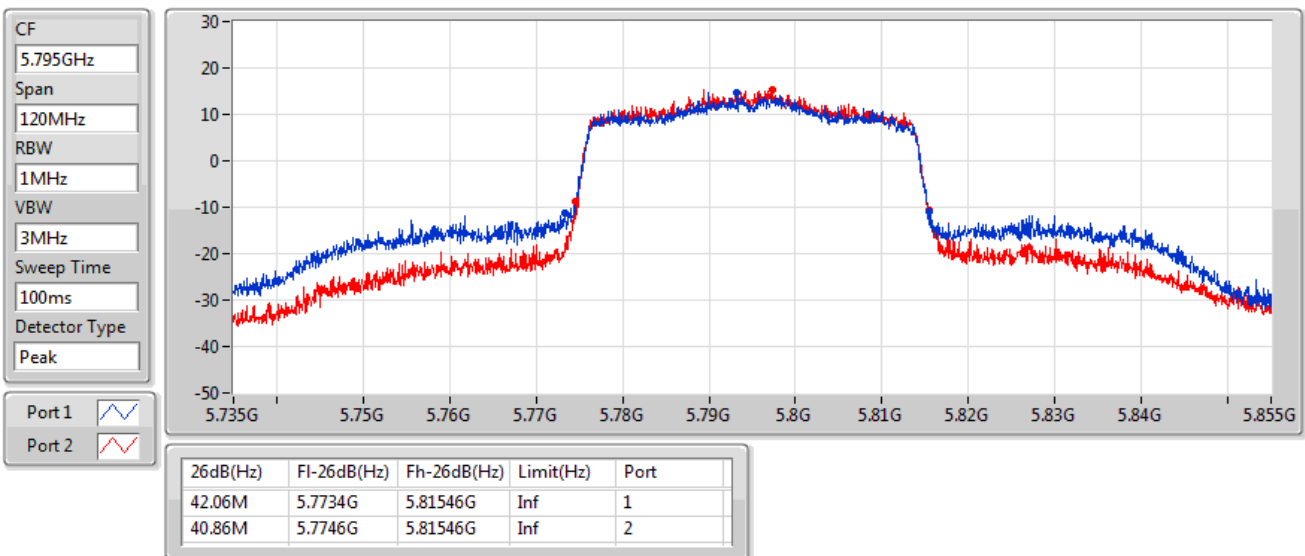
5795MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

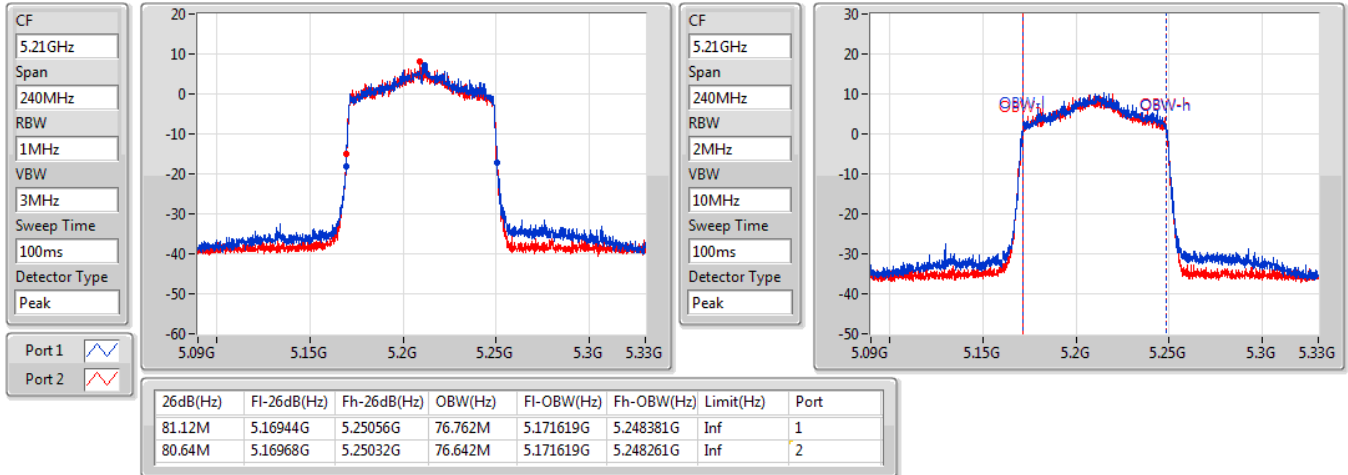
5795MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

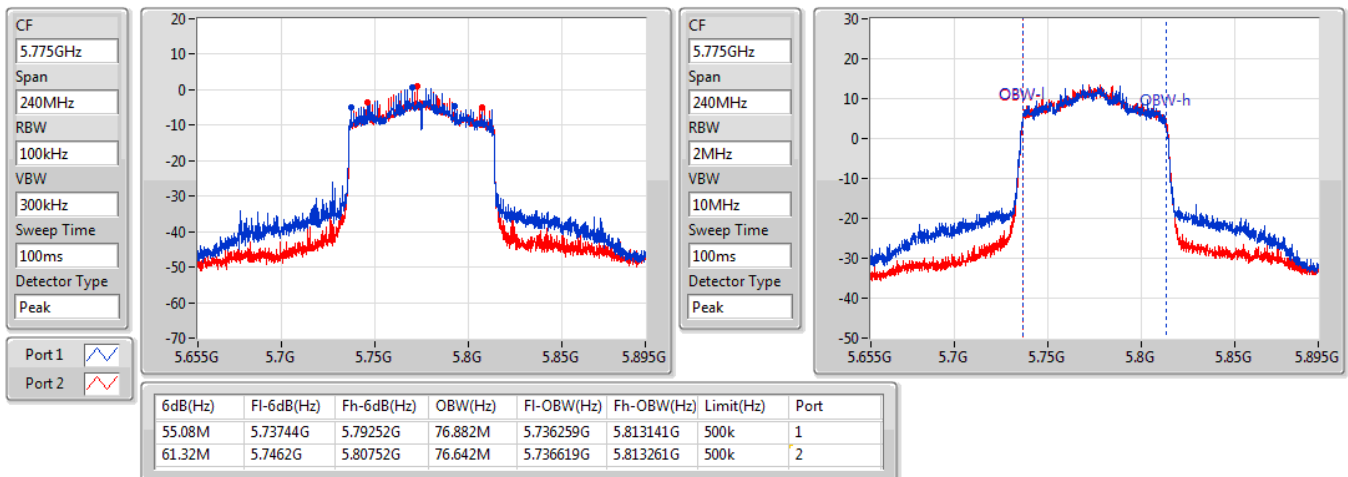
5210MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

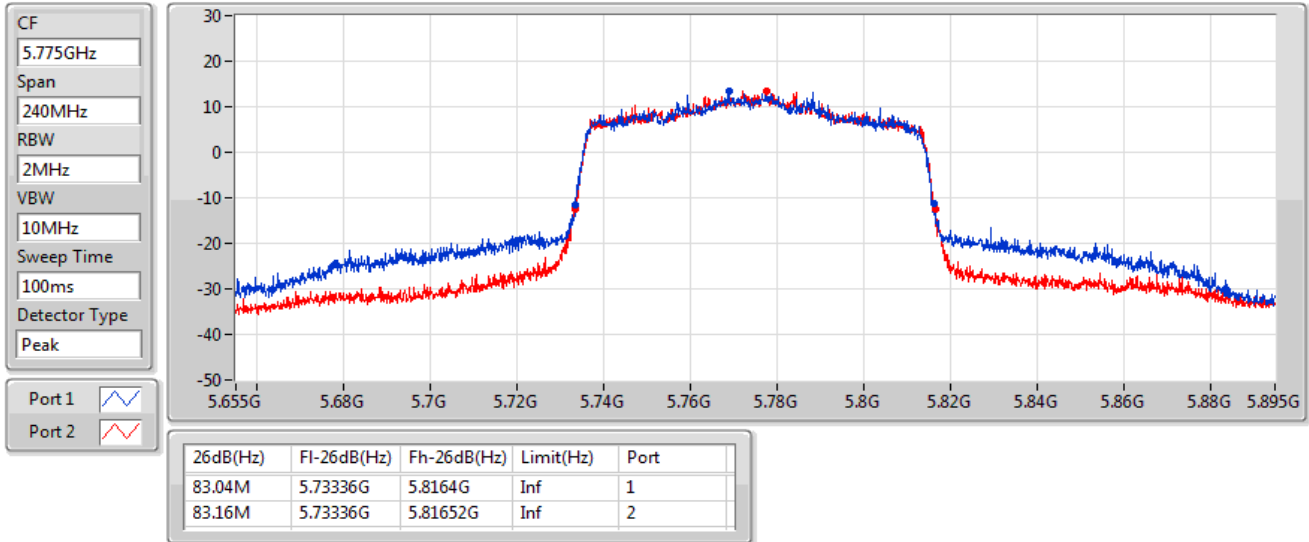
5775MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz



Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.83	0.15241	28.33	0.68077
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	21.76	0.14997	28.26	0.66988
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	20.00	0.10000	26.50	0.44668
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	15.26	0.03357	21.76	0.14997
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.53	0.14223	28.53	0.71285
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	21.35	0.13646	28.35	0.68391
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	20.38	0.10914	27.38	0.54702
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	18.32	0.06792	25.32	0.34041

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.50	15.86	15.95	18.92	29.50	25.42	36.00
5200MHz	Pass	6.50	18.76	18.88	21.83	29.50	28.33	36.00
5240MHz	Pass	6.50	18.33	18.59	21.47	29.50	27.97	36.00
5745MHz	Pass	7.00	17.82	18.45	21.16	29.00	28.16	36.00
5785MHz	Pass	7.00	17.77	18.81	21.33	29.00	28.33	36.00
5825MHz	Pass	7.00	17.95	19.03	21.53	29.00	28.53	36.00
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.50	15.79	15.9	18.86	29.50	25.36	36.00
5200MHz	Pass	6.50	18.35	18.82	21.60	29.50	28.10	36.00
5240MHz	Pass	6.50	18.63	18.86	21.76	29.50	28.26	36.00
5745MHz	Pass	7.00	17.89	18.69	21.32	29.00	28.32	36.00
5785MHz	Pass	7.00	17.61	18.67	21.18	29.00	28.18	36.00
5825MHz	Pass	7.00	17.76	18.85	21.35	29.00	28.35	36.00
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.50	13.02	13.15	16.10	29.50	22.60	36.00
5230MHz	Pass	6.50	16.85	17.13	20.00	29.50	26.50	36.00
5755MHz	Pass	7.00	16.43	16.74	19.60	29.00	26.60	36.00
5795MHz	Pass	7.00	17.08	17.65	20.38	29.00	27.38	36.00
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.50	12.12	12.37	15.26	29.50	21.76	36.00
5775MHz	Pass	7.00	15.29	15.32	18.32	29.00	25.32	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-OFDMA-BF_Nss1,(MCS0)_2TX	18.75	0.07499	28.06	0.63973
802.11ax HEW40-OFDMA-BF_Nss1,(MCS0)_2TX	16.99	0.05000	26.30	0.42658
802.11ax HEW80-OFDMA-BF_Nss1,(MCS0)_2TX	12.25	0.01679	21.56	0.14322
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-OFDMA-BF_Nss1,(MCS0)_2TX	18.34	0.06823	27.91	0.61802
802.11ax HEW40-OFDMA-BF_Nss1,(MCS0)_2TX	17.37	0.05458	26.94	0.49431
802.11ax HEW80-OFDMA-BF_Nss1,(MCS0)_2TX	15.31	0.03396	24.88	0.30761

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-OFDMA-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	9.31	12.78	12.89	15.85	26.69	25.16	36.00
5200MHz	Pass	9.31	15.34	15.81	18.59	26.69	27.90	36.00
5240MHz	Pass	9.31	15.62	15.85	18.75	26.69	28.06	36.00
5745MHz	Pass	9.57	14.88	15.68	18.31	26.43	27.88	36.00
5785MHz	Pass	9.57	14.6	15.66	18.17	26.43	27.74	36.00
5825MHz	Pass	9.57	14.75	15.84	18.34	26.43	27.91	36.00
802.11ax HEW40-OFDMA-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	9.31	10.01	10.14	13.09	26.69	22.40	36.00
5230MHz	Pass	9.31	13.84	14.12	16.99	26.69	26.30	36.00
5755MHz	Pass	9.57	13.42	13.73	16.59	26.43	26.16	36.00
5795MHz	Pass	9.57	14.07	14.64	17.37	26.43	26.94	36.00
802.11ax HEW80-OFDMA-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	9.31	9.11	9.36	12.25	26.69	21.56	36.00
5775MHz	Pass	9.57	12.28	12.31	15.31	26.43	24.88	36.00

Port X = Port X output power

DG = Directional Gain = $10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$;

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)	
	5150 ~ 5250	5725 ~ 5850
1	6.1	7
2	6.5	6.1
Directional Gain (dBi)	9.31	9.57

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.21	20.52
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	10.51	19.82
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	6.17	15.48
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	-1.84	7.47
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.77	19.34
802.11ax HEW20-OFDMA_Nss1,(MCS0)_2TX	8.74	18.31
802.11ax HEW40-OFDMA_Nss1,(MCS0)_2TX	4.95	14.52
802.11ax HEW80-OFDMA_Nss1,(MCS0)_2TX	-0.39	9.18

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)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	9.31	5.41	5.72	8.43	13.69	17.74	23.00
5200MHz	Pass	9.31	8.18	8.52	11.21	13.69	20.52	23.00
5240MHz	Pass	9.31	7.98	8.02	10.87	13.69	20.18	23.00
5745MHz	Pass	9.57	6.20	6.92	9.45	26.43	19.02	36.00
5785MHz	Pass	9.57	5.81	6.87	9.30	26.43	18.87	36.00
5825MHz	Pass	9.57	6.13	7.42	9.77	26.43	19.34	36.00
802.11ax HEW20-OFDMA_Nss1,(MCS0) _2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	9.31	4.88	4.77	7.76	13.69	17.07	23.00
5200MHz	Pass	9.31	7.21	7.64	10.35	13.69	19.66	23.00
5240MHz	Pass	9.31	7.40	7.75	10.51	13.69	19.82	23.00
5745MHz	Pass	9.57	4.84	5.59	8.17	26.43	17.74	36.00
5785MHz	Pass	9.57	5.46	6.25	8.74	26.43	18.31	36.00
5825MHz	Pass	9.57	4.67	6.07	8.27	26.43	17.84	36.00
802.11ax HEW40-OFDMA_Nss1,(MCS0) _2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	9.31	-0.98	-0.92	2.00	13.69	11.31	23.00
5230MHz	Pass	9.31	3.46	2.92	6.17	13.69	15.48	23.00
5755MHz	Pass	9.57	0.66	0.39	3.32	26.43	12.89	36.00
5795MHz	Pass	9.57	1.53	2.31	4.95	26.43	14.52	36.00
802.11ax HEW80-OFDMA_Nss1,(MCS0) _2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	9.31	-4.49	-5.07	-1.84	13.69	7.47	23.00
5775MHz	Pass	9.57	-3.10	-3.02	-0.39	26.43	9.18	36.00

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;

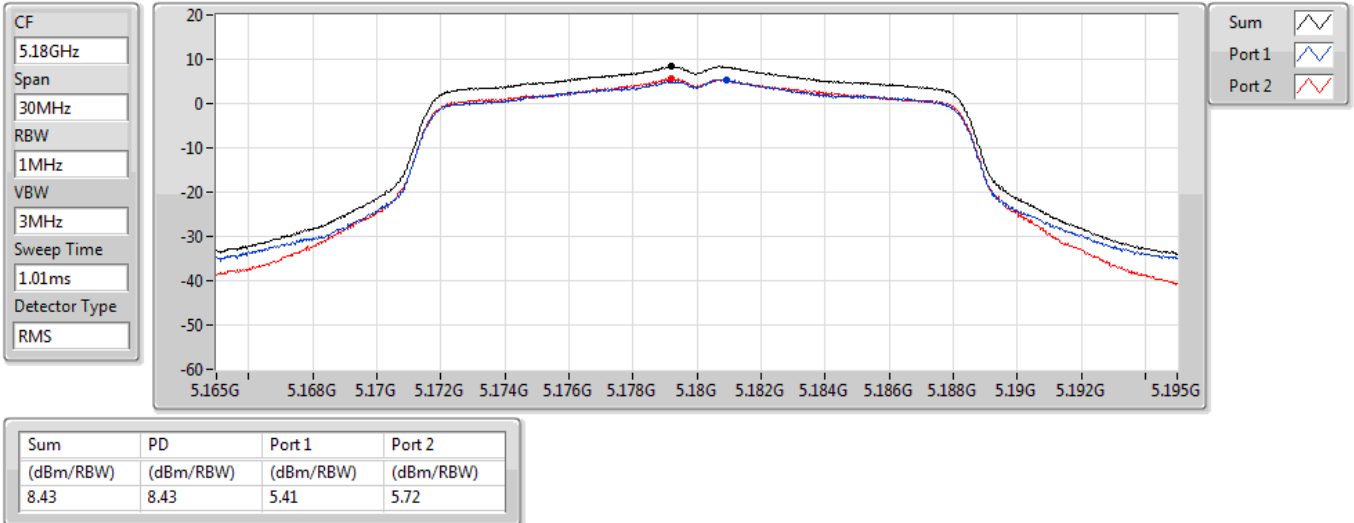
DG = Directional Gain = $10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$;

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)	
	5150 ~ 5250	5725 ~ 5850
1	6.1	7
2	6.5	6.1
Directional Gain (dBi)	9.31	9.57

802.11a_Nss1,(6Mbps)_2TX

PSD

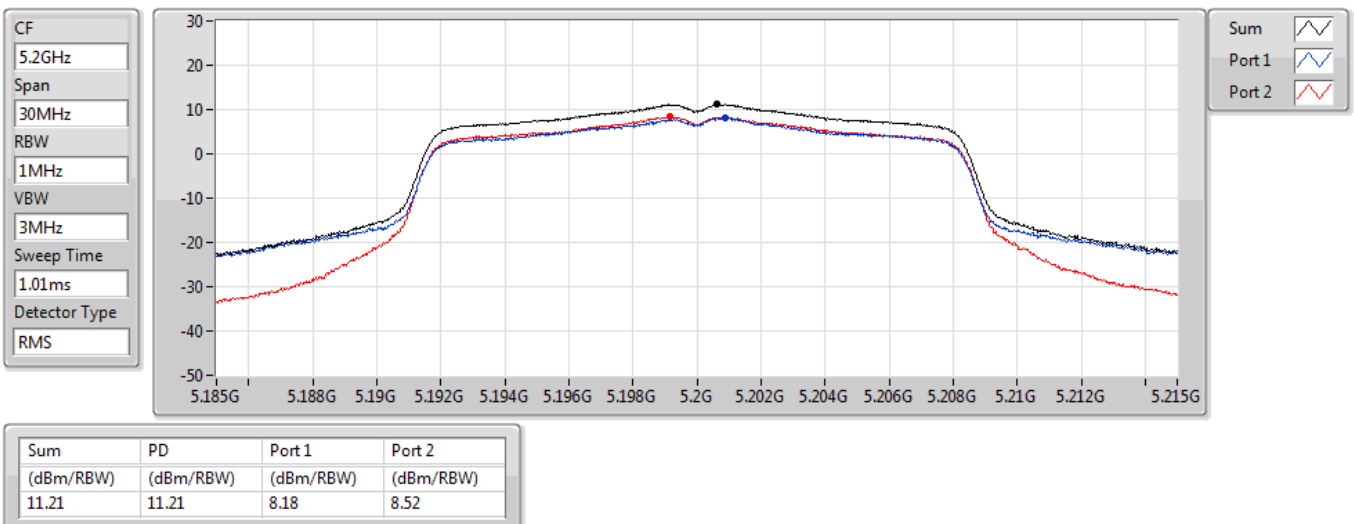
5180MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

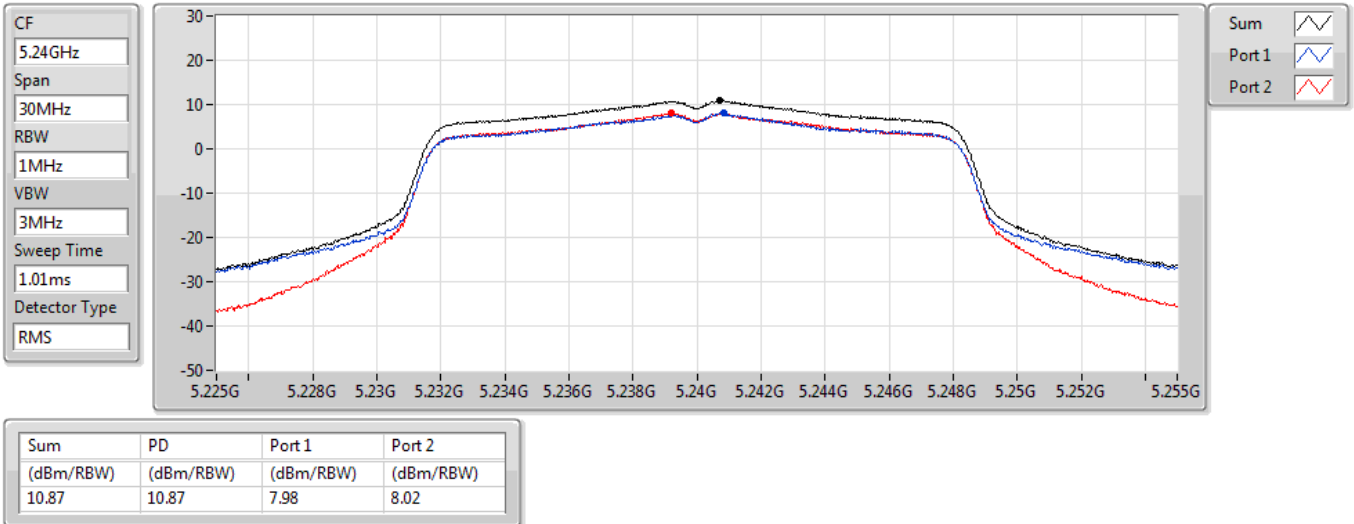
5200MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

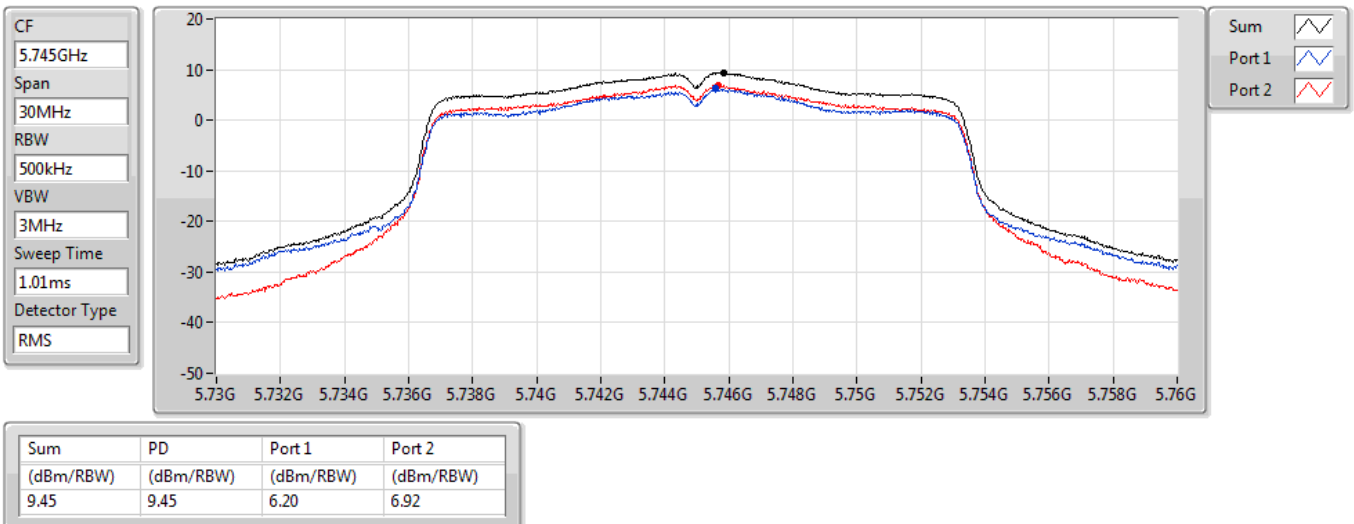
5240MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

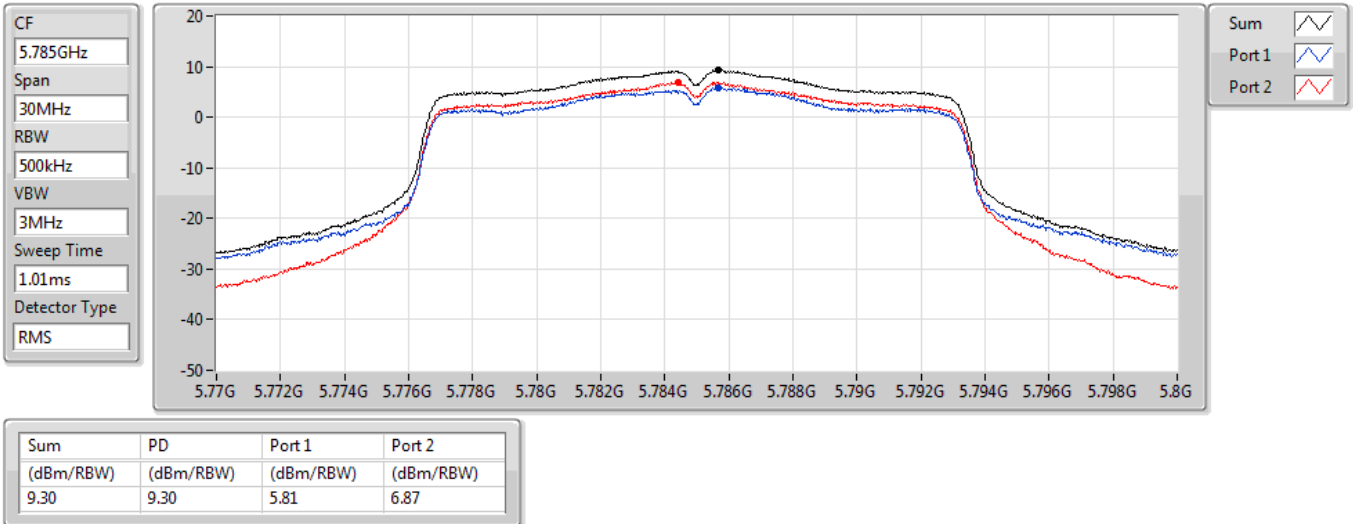
5745MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

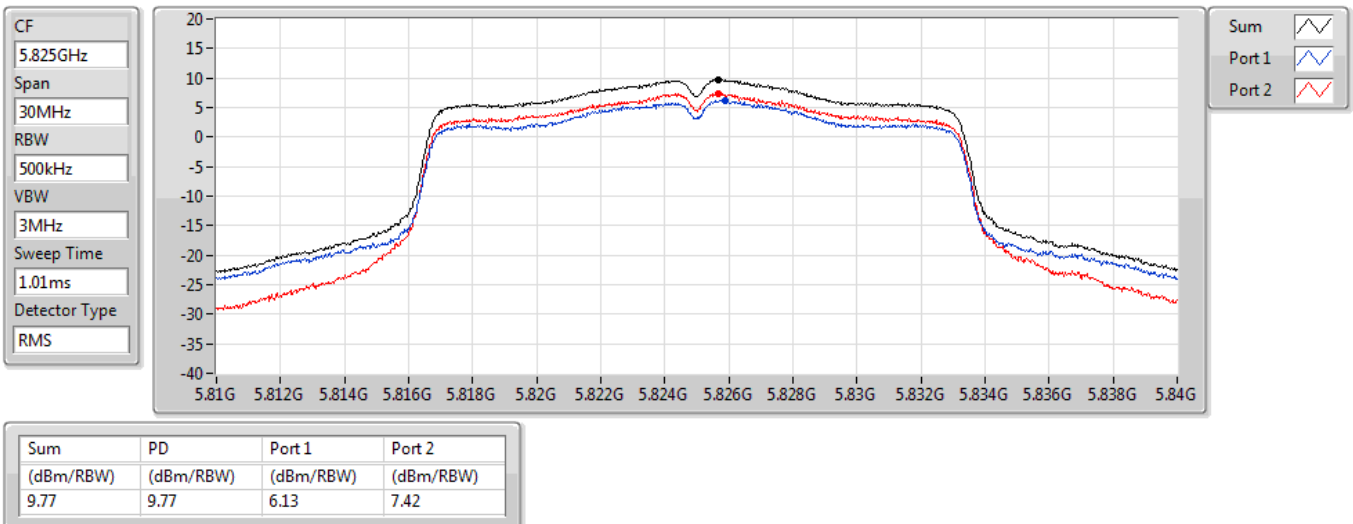
5785MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

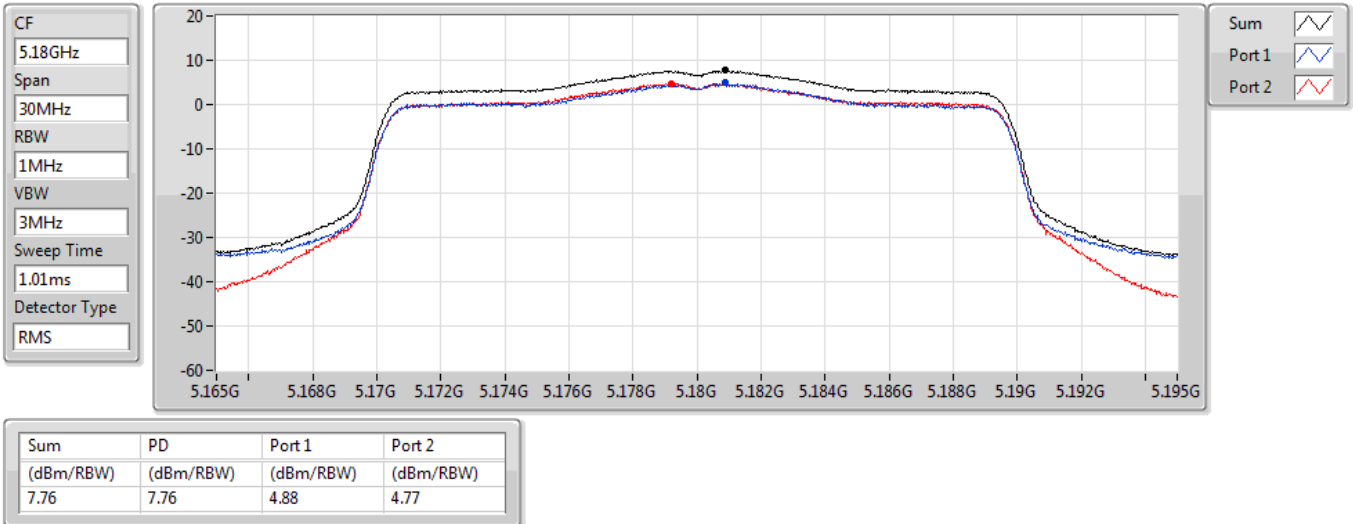
5825MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

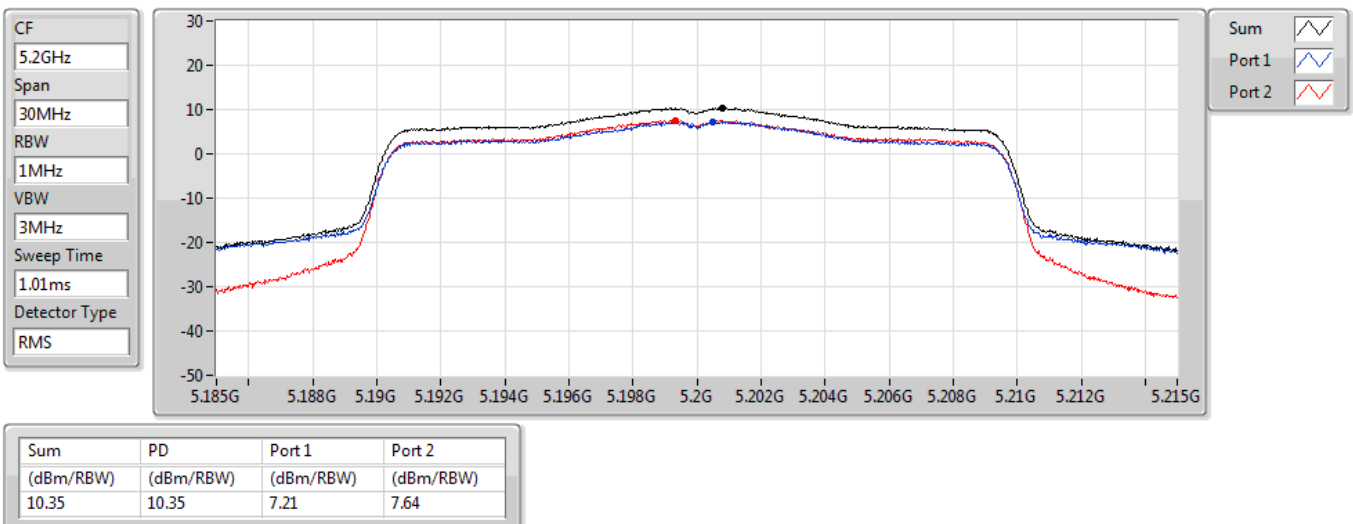
5180MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

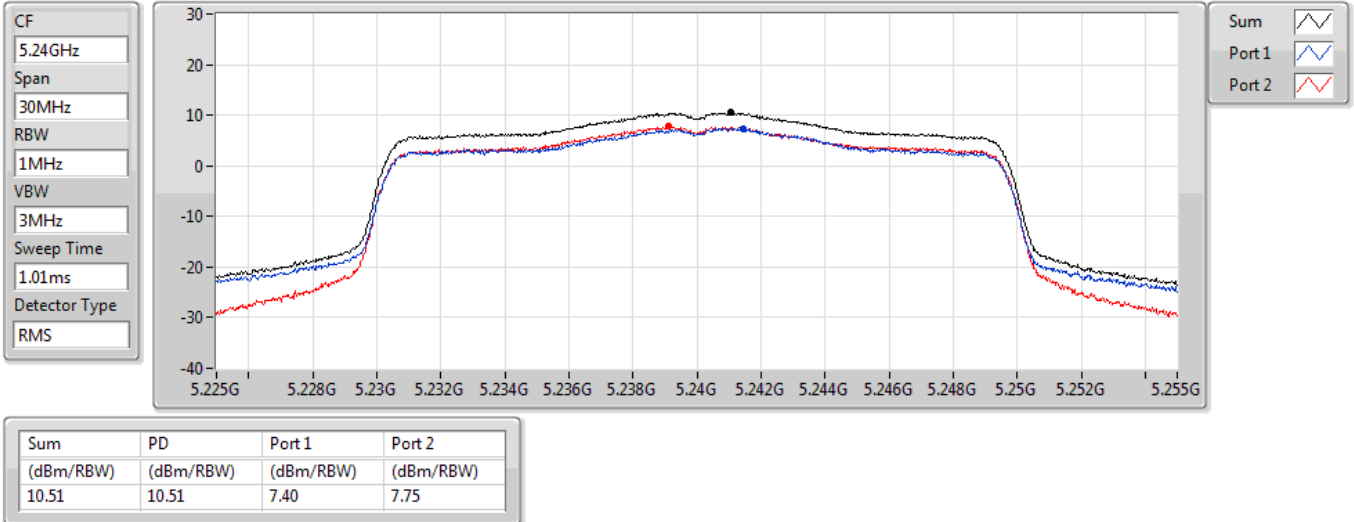
5200MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

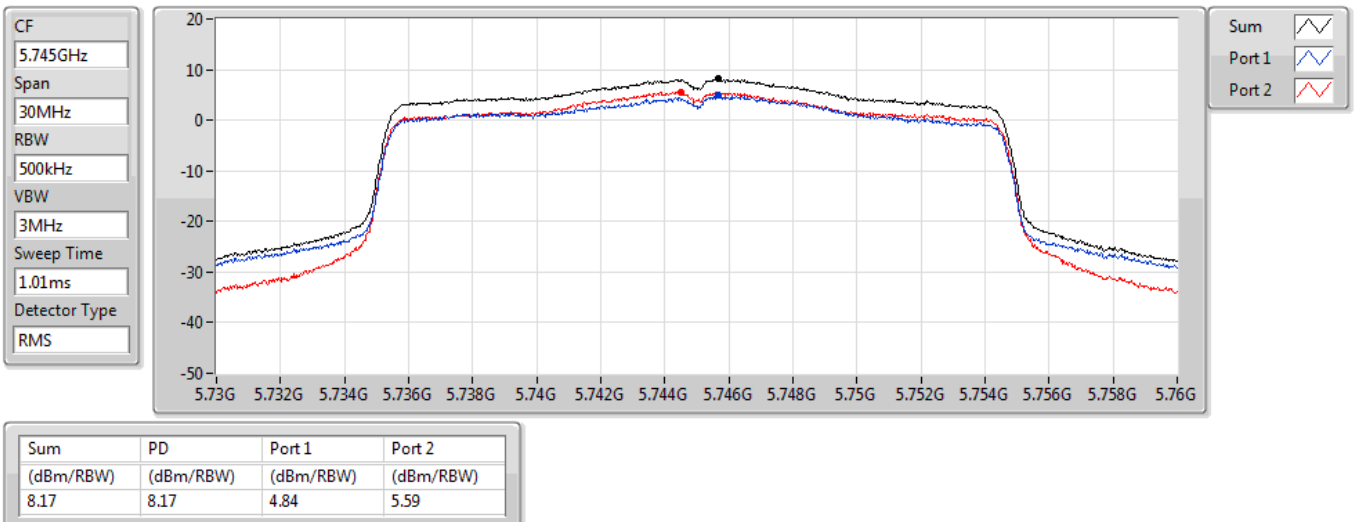
5240MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

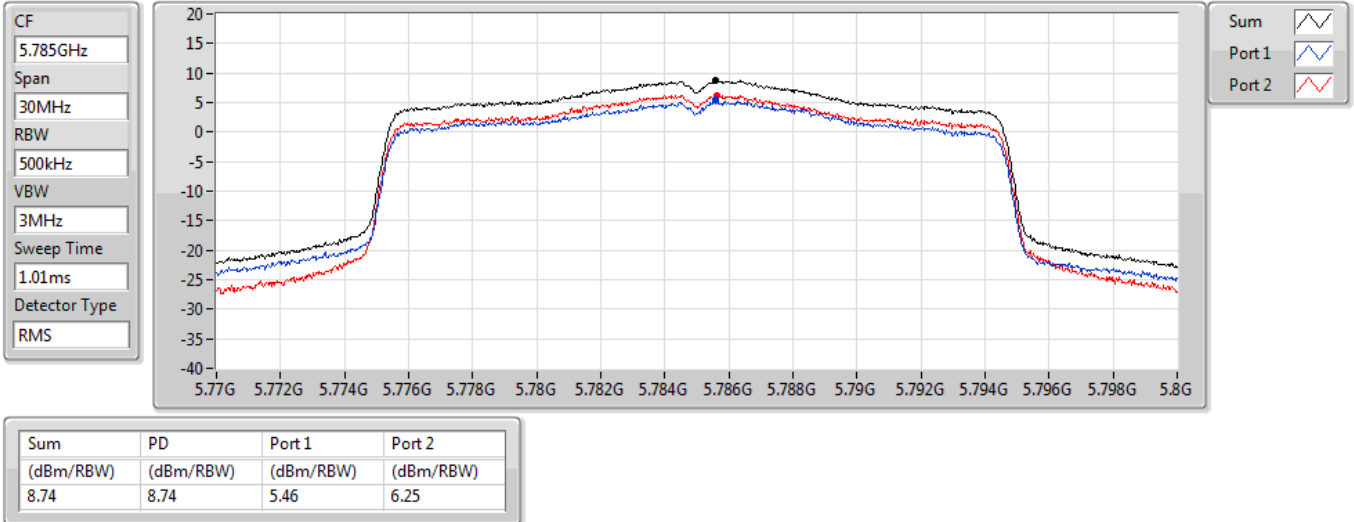
5745MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

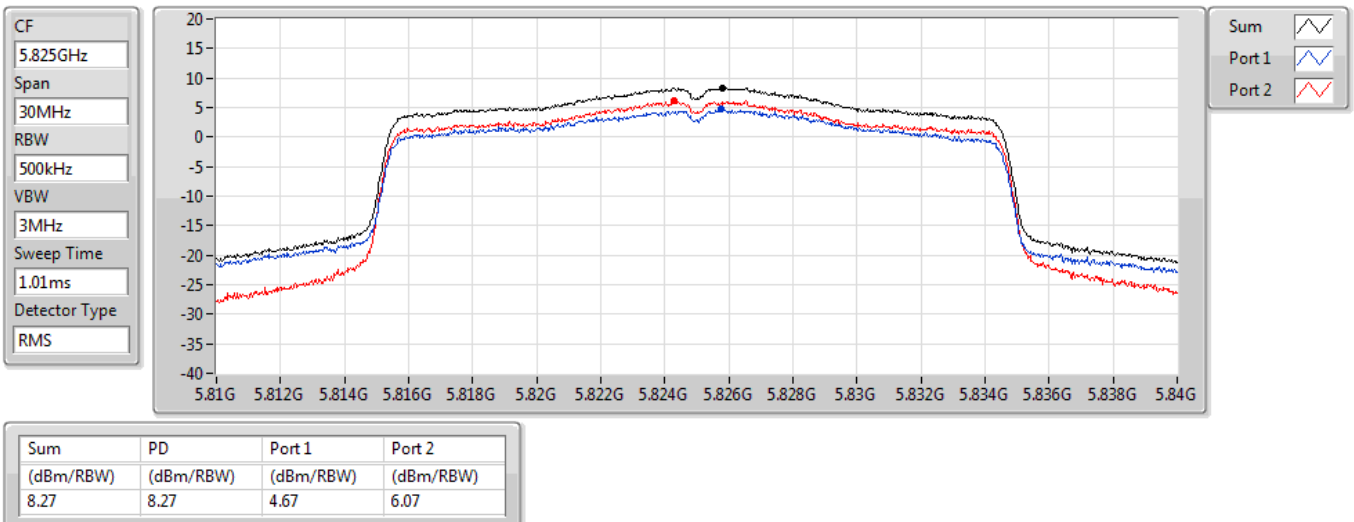
5785MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

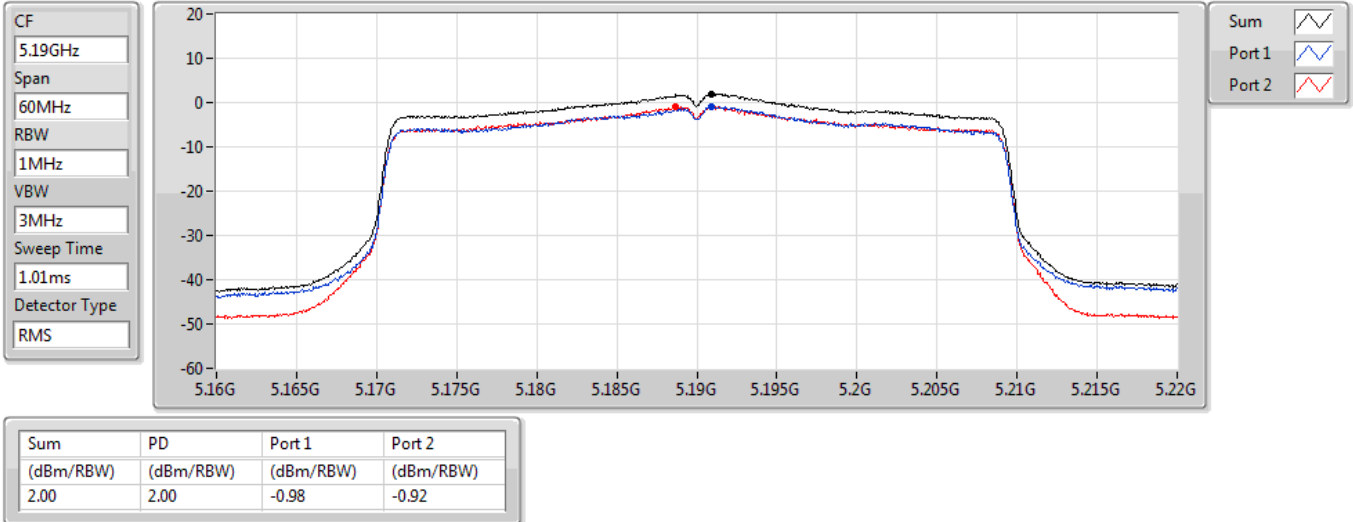
5825MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

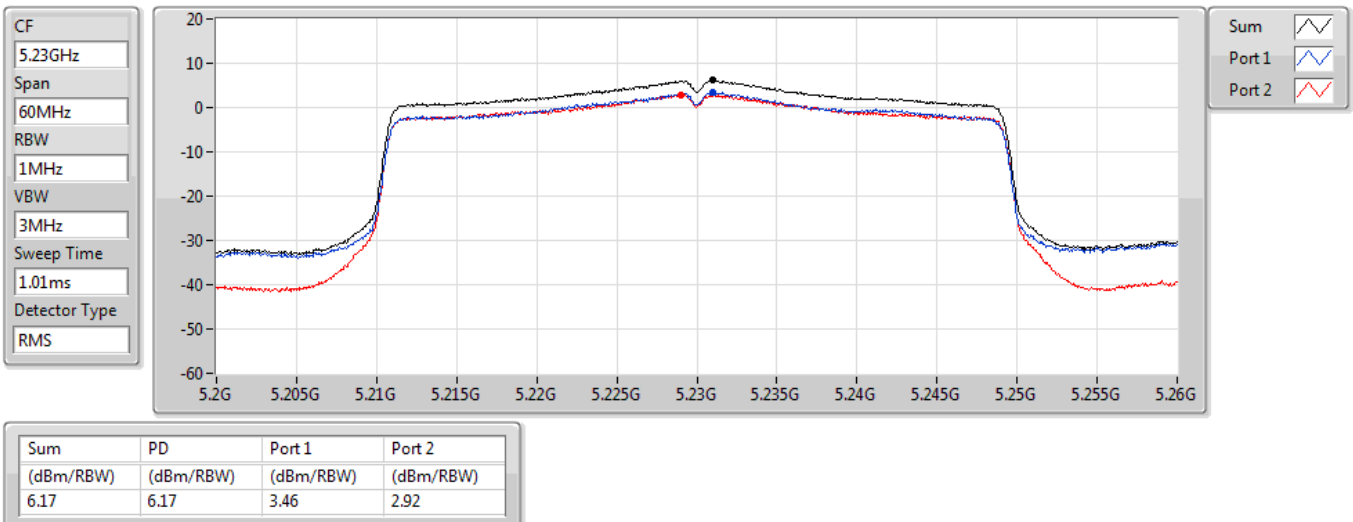
5190MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

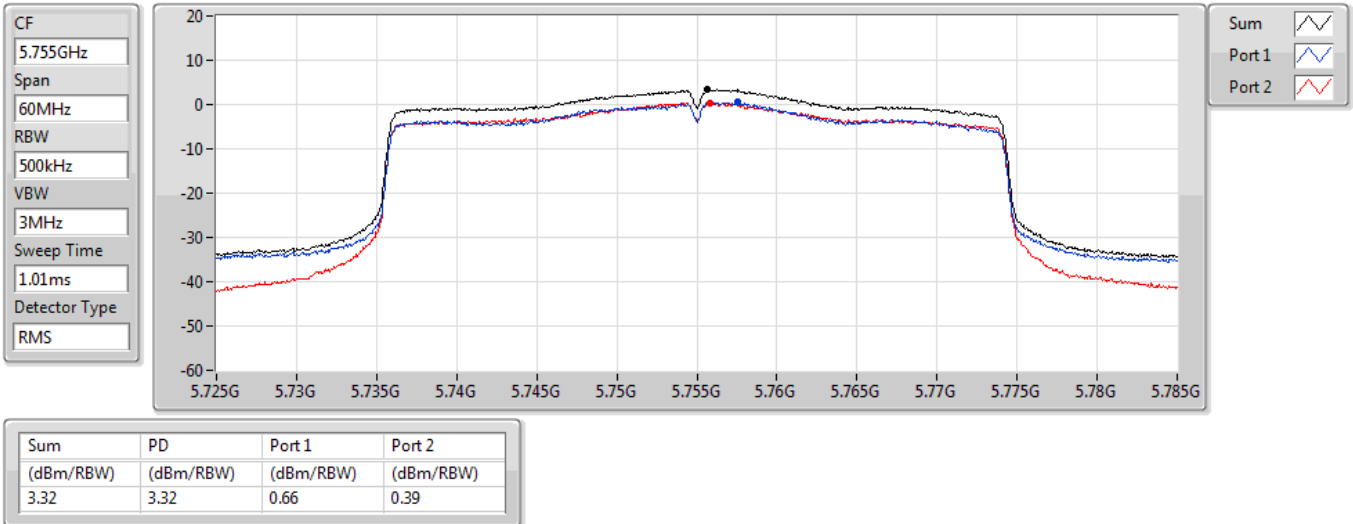
5230MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

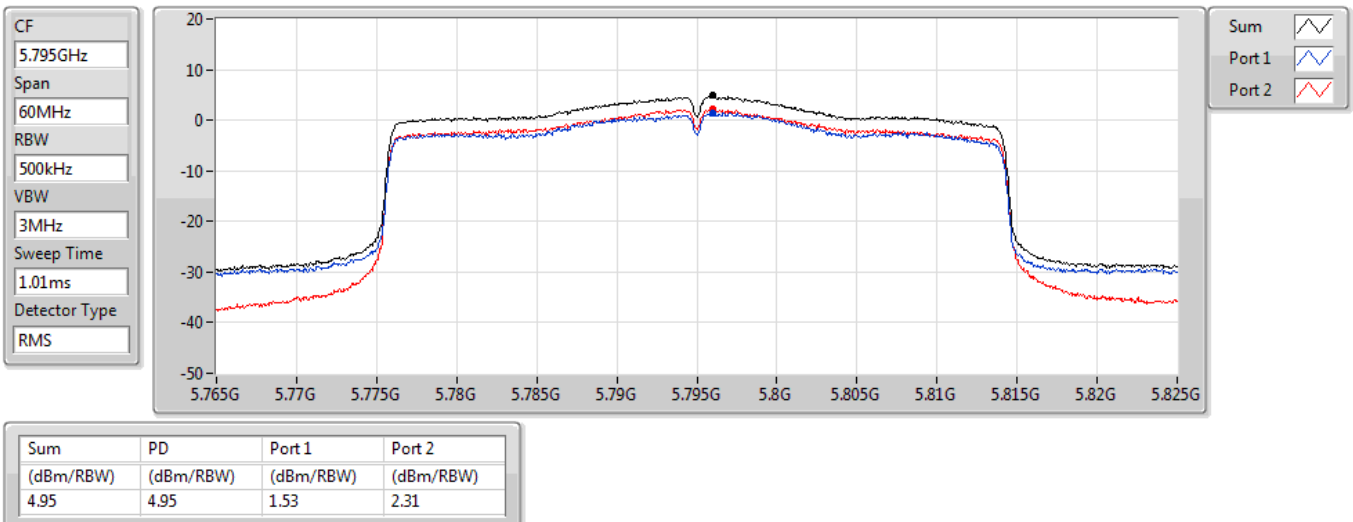
5755MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

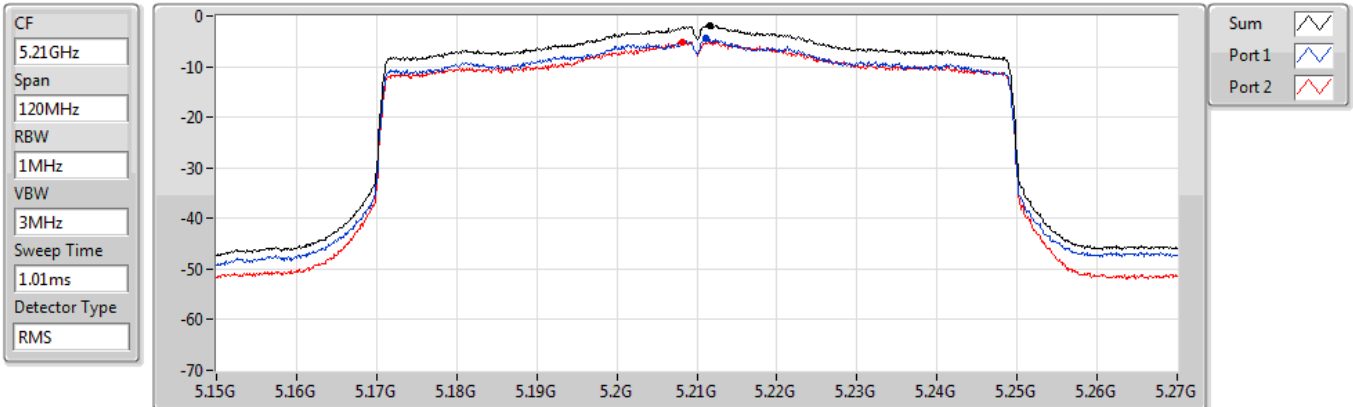
5795MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

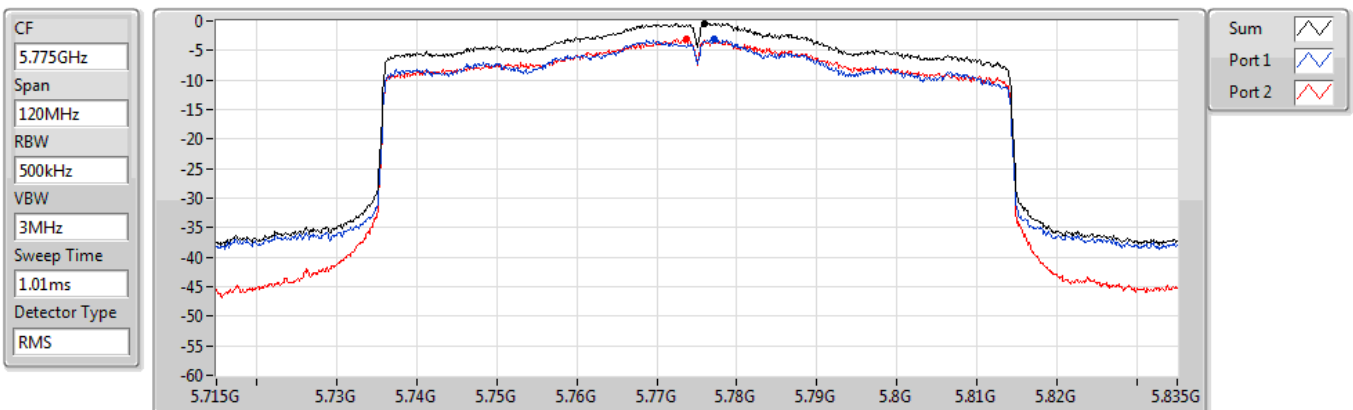
5210MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz





Configuration 1: Adapter mode

Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			

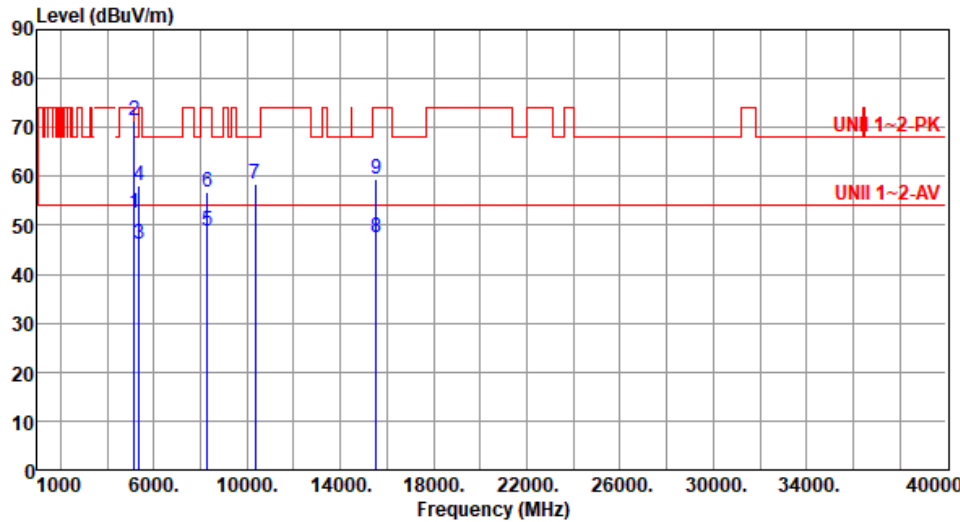
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m)			

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) <			

Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	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	52.59	54.00	-1.41	46.28	6.31	Average	214	349
2	5150.00	71.30	74.00	-2.70	64.99	6.31	Peak	214	349
3	5350.00	46.26	54.00	-7.74	40.54	5.72	Average	214	349
4	5350.00	58.26	74.00	-15.74	52.54	5.72	Peak	214	349
5	8288.00	48.72	54.00	-5.28	38.02	10.70	Average	235	66
6	8288.00	56.71	74.00	-17.29	46.01	10.70	Peak	235	66
7	10360.00	58.40	68.20	-9.80	43.95	14.45	Peak	260	51
8	15540.00	47.33	54.00	-6.67	30.93	16.40	Average	263	42
9	15540.00	59.38	74.00	-14.62	42.98	16.40	Peak	263	42

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).



Modulation	11a	Test Freq. (MHz)	5180																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																							
Level (dBuV/m) UNII 1-2-PK UNII 1-2-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>5150.00</td><td>50.29</td><td>54.00</td><td>-3.71</td><td>43.98</td><td>6.31</td><td>Average</td><td>100</td><td>14</td></tr><tr><td>2</td><td>5150.00</td><td>69.11</td><td>74.00</td><td>-4.89</td><td>62.80</td><td>6.31</td><td>Peak</td><td>100</td><td>14</td></tr><tr><td>3</td><td>5350.00</td><td>46.00</td><td>54.00</td><td>-8.00</td><td>40.28</td><td>5.72</td><td>Average</td><td>101</td><td>310</td></tr><tr><td>4</td><td>5350.00</td><td>58.00</td><td>74.00</td><td>-16.00</td><td>52.28</td><td>5.72</td><td>Peak</td><td>101</td><td>310</td></tr><tr><td>5</td><td>8288.00</td><td>51.58</td><td>54.00</td><td>-2.42</td><td>40.88</td><td>10.70</td><td>Average</td><td>252</td><td>333</td></tr><tr><td>6</td><td>8288.00</td><td>56.57</td><td>74.00</td><td>-17.43</td><td>45.87</td><td>10.70</td><td>Peak</td><td>252</td><td>333</td></tr><tr><td>7</td><td>10360.00</td><td>57.03</td><td>68.20</td><td>-11.17</td><td>42.58</td><td>14.45</td><td>Peak</td><td>210</td><td>15</td></tr><tr><td>8</td><td>15540.00</td><td>46.99</td><td>54.00</td><td>-7.01</td><td>30.59</td><td>16.40</td><td>Average</td><td>223</td><td>23</td></tr><tr><td>9</td><td>15540.00</td><td>58.97</td><td>74.00</td><td>-15.03</td><td>42.57</td><td>16.40</td><td>Peak</td><td>223</td><td>23</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	50.29	54.00	-3.71	43.98	6.31	Average	100	14	2	5150.00	69.11	74.00	-4.89	62.80	6.31	Peak	100	14	3	5350.00	46.00	54.00	-8.00	40.28	5.72	Average	101	310	4	5350.00	58.00	74.00	-16.00	52.28	5.72	Peak	101	310	5	8288.00	51.58	54.00	-2.42	40.88	10.70	Average	252	333	6	8288.00	56.57	74.00	-17.43	45.87	10.70	Peak	252	333	7	10360.00	57.03	68.20	-11.17	42.58	14.45	Peak	210	15	8	15540.00	46.99	54.00	-7.01	30.59	16.40	Average	223	23	9	15540.00	58.97	74.00	-15.03	42.57	16.40	Peak	223	23
	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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2	5150.00	69.11	74.00	-4.89	62.80	6.31	Peak	100	14																																																																																														
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4	5350.00	58.00	74.00	-16.00	52.28	5.72	Peak	101	310																																																																																														
5	8288.00	51.58	54.00	-2.42	40.88	10.70	Average	252	333																																																																																														
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																							



Modulation	11a	Test Freq. (MHz)	5200																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																							
Level (dBuV/m) UNII 1~2-PK UNII 1~2-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>5150.00</td><td>53.29</td><td>54.00</td><td>-0.71</td><td>46.98</td><td>6.31</td><td>Average</td><td>199</td><td>338</td></tr><tr><td>2</td><td>5150.00</td><td>66.19</td><td>74.00</td><td>-7.81</td><td>59.88</td><td>6.31</td><td>Peak</td><td>199</td><td>338</td></tr><tr><td>3</td><td>5350.00</td><td>46.30</td><td>54.00</td><td>-7.70</td><td>40.58</td><td>5.72</td><td>Average</td><td>199</td><td>338</td></tr><tr><td>4</td><td>5350.00</td><td>58.49</td><td>74.00</td><td>-15.51</td><td>52.77</td><td>5.72</td><td>Peak</td><td>199</td><td>338</td></tr><tr><td>5</td><td>8320.00</td><td>48.58</td><td>54.00</td><td>-5.42</td><td>37.89</td><td>10.69</td><td>Average</td><td>228</td><td>65</td></tr><tr><td>6</td><td>8320.00</td><td>55.59</td><td>74.00</td><td>-18.41</td><td>44.90</td><td>10.69</td><td>Peak</td><td>228</td><td>65</td></tr><tr><td>7</td><td>10400.00</td><td>60.59</td><td>68.20</td><td>-7.61</td><td>46.11</td><td>14.48</td><td>Peak</td><td>243</td><td>52</td></tr><tr><td>8</td><td>15600.00</td><td>47.82</td><td>54.00</td><td>-6.18</td><td>31.88</td><td>15.94</td><td>Average</td><td>225</td><td>58</td></tr><tr><td>9</td><td>15600.00</td><td>61.22</td><td>74.00</td><td>-12.78</td><td>45.28</td><td>15.94</td><td>Peak</td><td>225</td><td>58</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	53.29	54.00	-0.71	46.98	6.31	Average	199	338	2	5150.00	66.19	74.00	-7.81	59.88	6.31	Peak	199	338	3	5350.00	46.30	54.00	-7.70	40.58	5.72	Average	199	338	4	5350.00	58.49	74.00	-15.51	52.77	5.72	Peak	199	338	5	8320.00	48.58	54.00	-5.42	37.89	10.69	Average	228	65	6	8320.00	55.59	74.00	-18.41	44.90	10.69	Peak	228	65	7	10400.00	60.59	68.20	-7.61	46.11	14.48	Peak	243	52	8	15600.00	47.82	54.00	-6.18	31.88	15.94	Average	225	58	9	15600.00	61.22	74.00	-12.78	45.28	15.94	Peak	225	58
	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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9	15600.00	61.22	74.00	-12.78	45.28	15.94	Peak	225	58																																																																																														
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Modulation	11a	Test Freq. (MHz)	5200																																																																																																				
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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>5150.00</td><td>50.46</td><td>54.00</td><td>-3.54</td><td>44.15</td><td>6.31</td><td>Average</td><td>100</td><td>310</td></tr><tr><td>2</td><td>5150.00</td><td>65.20</td><td>74.00</td><td>-8.80</td><td>58.89</td><td>6.31</td><td>Peak</td><td>100</td><td>310</td></tr><tr><td>3</td><td>5350.00</td><td>46.14</td><td>54.00</td><td>-7.86</td><td>40.42</td><td>5.72</td><td>Average</td><td>100</td><td>110</td></tr><tr><td>4</td><td>5350.00</td><td>58.14</td><td>74.00</td><td>-15.86</td><td>52.42</td><td>5.72</td><td>Peak</td><td>100</td><td>110</td></tr><tr><td>5</td><td>8320.00</td><td>51.52</td><td>54.00</td><td>-2.48</td><td>40.83</td><td>10.69</td><td>Average</td><td>246</td><td>335</td></tr><tr><td>6</td><td>8320.00</td><td>57.22</td><td>74.00</td><td>-16.78</td><td>46.53</td><td>10.69</td><td>Peak</td><td>246</td><td>335</td></tr><tr><td>7</td><td>10400.00</td><td>61.36</td><td>68.20</td><td>-6.84</td><td>46.88</td><td>14.48</td><td>Peak</td><td>277</td><td>42</td></tr><tr><td>8</td><td>15600.00</td><td>46.19</td><td>54.00</td><td>-7.81</td><td>30.25</td><td>15.94</td><td>Average</td><td>224</td><td>12</td></tr><tr><td>9</td><td>15600.00</td><td>58.59</td><td>74.00</td><td>-15.41</td><td>42.65</td><td>15.94</td><td>Peak</td><td>224</td><td>12</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	5150.00	50.46	54.00	-3.54	44.15	6.31	Average	100	310	2	5150.00	65.20	74.00	-8.80	58.89	6.31	Peak	100	310	3	5350.00	46.14	54.00	-7.86	40.42	5.72	Average	100	110	4	5350.00	58.14	74.00	-15.86	52.42	5.72	Peak	100	110	5	8320.00	51.52	54.00	-2.48	40.83	10.69	Average	246	335	6	8320.00	57.22	74.00	-16.78	46.53	10.69	Peak	246	335	7	10400.00	61.36	68.20	-6.84	46.88	14.48	Peak	277	42	8	15600.00	46.19	54.00	-7.81	30.25	15.94	Average	224	12	9	15600.00	58.59	74.00	-15.41	42.65	15.94	Peak	224	12
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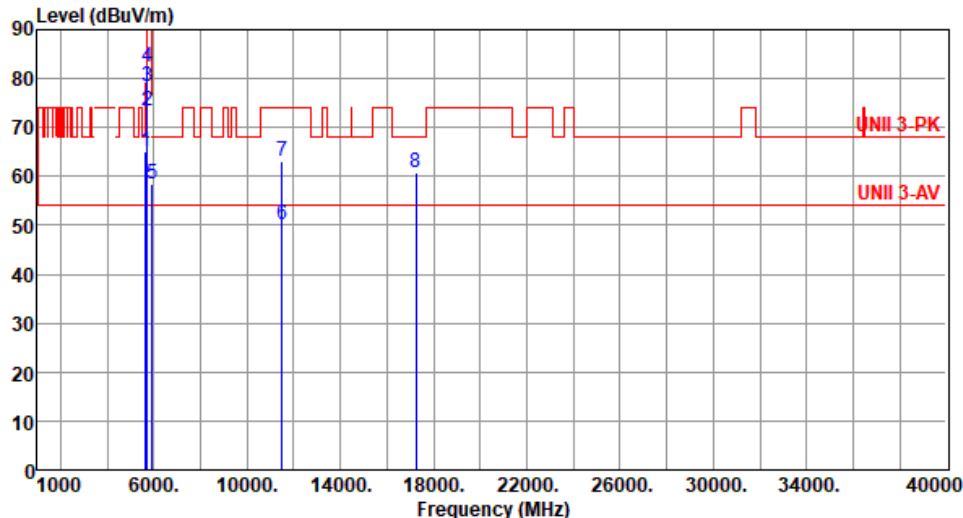


Modulation	11a	Test Freq. (MHz)	5240																																																																																																				
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Level (dBUV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit 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>67.17</td><td>68.20</td><td>-1.03</td><td>60.85</td><td>6.32</td><td>Peak</td><td>168</td><td>314</td></tr><tr><td>2</td><td>5700.00</td><td>75.50</td><td>105.20</td><td>-29.70</td><td>68.97</td><td>6.53</td><td>Peak</td><td>168</td><td>314</td></tr><tr><td>3</td><td>5720.00</td><td>81.49</td><td>110.80</td><td>-29.31</td><td>74.91</td><td>6.58</td><td>Peak</td><td>168</td><td>314</td></tr><tr><td>4</td><td>5725.00</td><td>85.44</td><td>122.20</td><td>-36.76</td><td>78.85</td><td>6.59</td><td>Peak</td><td>168</td><td>314</td></tr><tr><td>5</td><td>5925.00</td><td>58.74</td><td>68.20</td><td>-9.46</td><td>51.71</td><td>7.03</td><td>Peak</td><td>168</td><td>314</td></tr><tr><td>6</td><td>11490.00</td><td>52.02</td><td>54.00</td><td>-1.98</td><td>36.64</td><td>15.38</td><td>Average</td><td>122</td><td>355</td></tr><tr><td>7</td><td>11490.00</td><td>67.24</td><td>74.00</td><td>-6.76</td><td>51.86</td><td>15.38</td><td>Peak</td><td>122</td><td>355</td></tr><tr><td>8</td><td>17235.00</td><td>62.24</td><td>68.20</td><td>-5.96</td><td>43.98</td><td>18.26</td><td>Peak</td><td>100</td><td>345</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	67.17	68.20	-1.03	60.85	6.32	Peak	168	314	2	5700.00	75.50	105.20	-29.70	68.97	6.53	Peak	168	314	3	5720.00	81.49	110.80	-29.31	74.91	6.58	Peak	168	314	4	5725.00	85.44	122.20	-36.76	78.85	6.59	Peak	168	314	5	5925.00	58.74	68.20	-9.46	51.71	7.03	Peak	168	314	6	11490.00	52.02	54.00	-1.98	36.64	15.38	Average	122	355	7	11490.00	67.24	74.00	-6.76	51.86	15.38	Peak	122	355	8	17235.00	62.24	68.20	-5.96	43.98	18.26	Peak	100	345
	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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2	5700.00	75.50	105.20	-29.70	68.97	6.53	Peak	168	314																																																																																				
3	5720.00	81.49	110.80	-29.31	74.91	6.58	Peak	168	314																																																																																				
4	5725.00	85.44	122.20	-36.76	78.85	6.59	Peak	168	314																																																																																				
5	5925.00	58.74	68.20	-9.46	51.71	7.03	Peak	168	314																																																																																				
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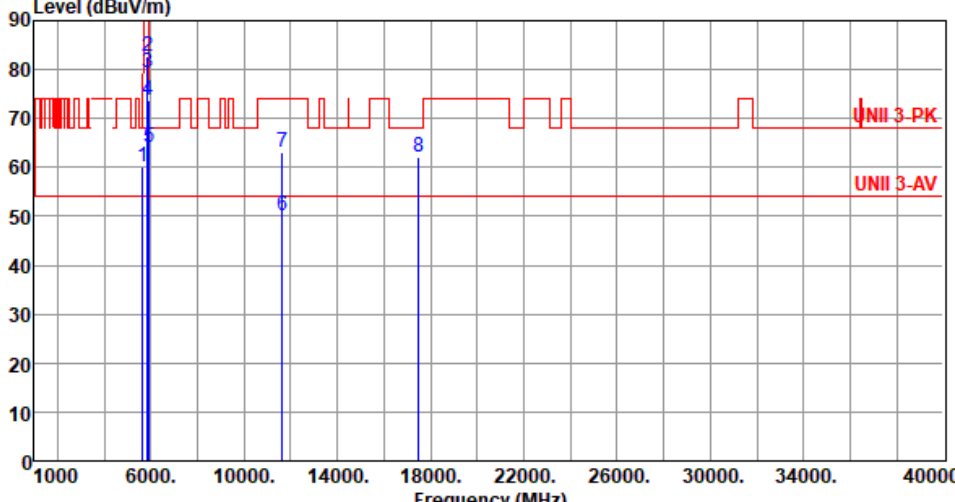


Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																															
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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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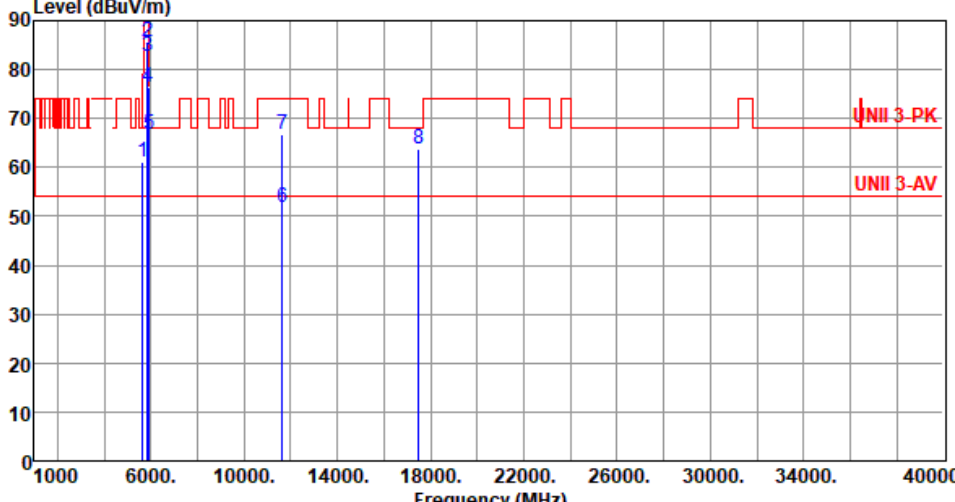


Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																															
<table><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>61.02</td><td>68.20</td><td>-7.18</td><td>54.70</td><td>6.32</td><td>Peak</td><td>177</td><td>322</td></tr><tr><td>2</td><td>5925.00</td><td>61.85</td><td>68.20</td><td>-6.35</td><td>54.82</td><td>7.03</td><td>Peak</td><td>177</td><td>322</td></tr><tr><td>3</td><td>11570.00</td><td>52.15</td><td>54.00</td><td>-1.85</td><td>36.77</td><td>15.38</td><td>Average</td><td>119</td><td>350</td></tr><tr><td>4</td><td>11570.00</td><td>67.16</td><td>74.00</td><td>-6.84</td><td>51.78</td><td>15.38</td><td>Peak</td><td>119</td><td>350</td></tr><tr><td>5</td><td>17355.00</td><td>62.94</td><td>68.20</td><td>-5.26</td><td>43.96</td><td>18.98</td><td>Peak</td><td>100</td><td>341</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	61.02	68.20	-7.18	54.70	6.32	Peak	177	322	2	5925.00	61.85	68.20	-6.35	54.82	7.03	Peak	177	322	3	11570.00	52.15	54.00	-1.85	36.77	15.38	Average	119	350	4	11570.00	67.16	74.00	-6.84	51.78	15.38	Peak	119	350	5	17355.00	62.94	68.20	-5.26	43.96	18.98	Peak	100	341
	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	61.02	68.20	-7.18	54.70	6.32	Peak	177	322																																																						
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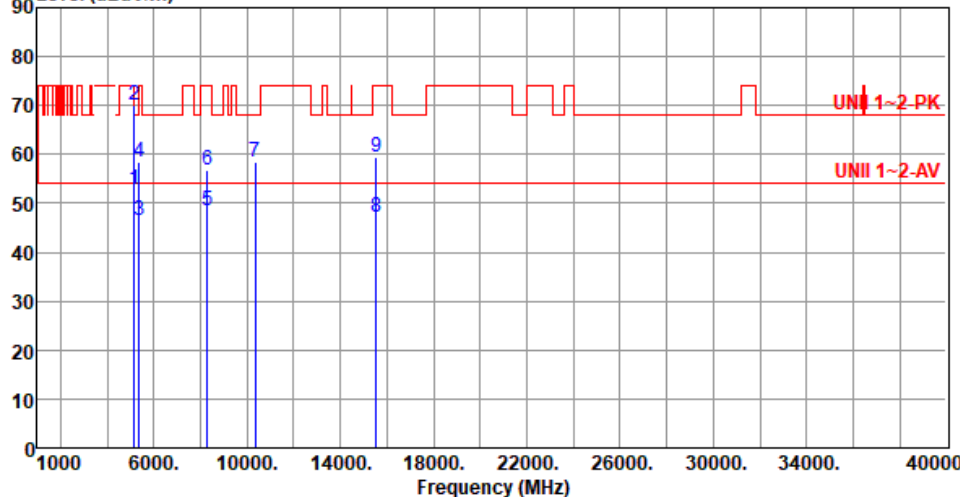


Modulation	11a	Test Freq. (MHz)	5825																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																																																													
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>5650.00</td><td>60.09</td><td>68.20</td><td>-8.11</td><td>53.77</td><td>6.32</td><td>Peak</td><td>143</td><td>18</td></tr><tr><td>2</td><td>5850.00</td><td>82.62</td><td>122.20</td><td>-39.58</td><td>75.85</td><td>6.77</td><td>Peak</td><td>143</td><td>18</td></tr><tr><td>3</td><td>5855.00</td><td>79.46</td><td>110.80</td><td>-31.34</td><td>72.66</td><td>6.80</td><td>Peak</td><td>143</td><td>18</td></tr><tr><td>4</td><td>5875.00</td><td>73.83</td><td>105.20</td><td>-31.37</td><td>66.95</td><td>6.88</td><td>Peak</td><td>143</td><td>18</td></tr><tr><td>5</td><td>5925.00</td><td>64.02</td><td>68.20</td><td>-4.18</td><td>56.99</td><td>7.03</td><td>Peak</td><td>143</td><td>18</td></tr><tr><td>6</td><td>11650.00</td><td>50.02</td><td>54.00</td><td>-3.98</td><td>34.85</td><td>15.17</td><td>Average</td><td>195</td><td>307</td></tr><tr><td>7</td><td>11650.00</td><td>63.04</td><td>74.00</td><td>-10.96</td><td>47.87</td><td>15.17</td><td>Peak</td><td>195</td><td>307</td></tr><tr><td>8</td><td>17475.00</td><td>62.22</td><td>68.20</td><td>-5.98</td><td>42.41</td><td>19.81</td><td>Peak</td><td>100</td><td>303</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	60.09	68.20	-8.11	53.77	6.32	Peak	143	18	2	5850.00	82.62	122.20	-39.58	75.85	6.77	Peak	143	18	3	5855.00	79.46	110.80	-31.34	72.66	6.80	Peak	143	18	4	5875.00	73.83	105.20	-31.37	66.95	6.88	Peak	143	18	5	5925.00	64.02	68.20	-4.18	56.99	7.03	Peak	143	18	6	11650.00	50.02	54.00	-3.98	34.85	15.17	Average	195	307	7	11650.00	63.04	74.00	-10.96	47.87	15.17	Peak	195	307	8	17475.00	62.22	68.20	-5.98	42.41	19.81	Peak	100	303
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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5	5925.00	64.02	68.20	-4.18	56.99	7.03	Peak	143	18																																																																																				
6	11650.00	50.02	54.00	-3.98	34.85	15.17	Average	195	307																																																																																				
7	11650.00	63.04	74.00	-10.96	47.87	15.17	Peak	195	307																																																																																				
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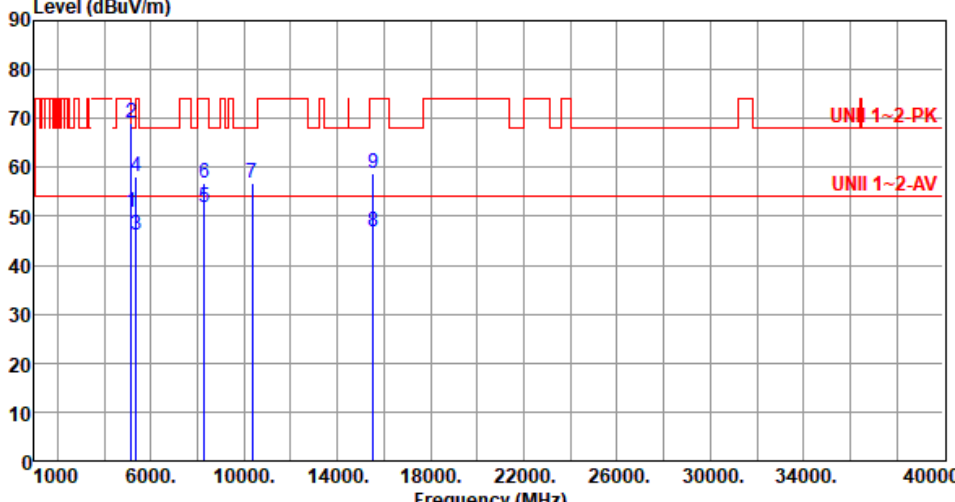
Modulation	11a	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																																																													
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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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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).																																																																																													

Unwanted Emissions (Above 1GHz) for ax HE20-OFDMA

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66									
Level (dBUV/m)  Frequency (MHz)									
	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	52.64	54.00	-1.36	46.33	6.31	Average	205	348
2	5150.00	70.16	74.00	-3.84	63.85	6.31	Peak	205	348
3	5350.00	46.38	54.00	-7.62	40.66	5.72	Average	205	348
4	5350.00	58.30	74.00	-15.70	52.58	5.72	Peak	205	348
5	8288.00	48.65	54.00	-5.35	37.95	10.70	Average	233	67
6	8288.00	56.65	74.00	-17.35	45.95	10.70	Peak	233	67
7	10360.00	58.30	68.20	-9.90	43.85	14.45	Peak	257	52
8	15540.00	47.27	54.00	-6.73	30.87	16.40	Average	259	48
9	15540.00	59.33	74.00	-14.67	42.93	16.40	Peak	259	48

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5180																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																							
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>50.72</td><td>54.00</td><td>-3.28</td><td>44.41</td><td>6.31</td><td>Average</td><td>102</td><td>15</td></tr><tr><td>2</td><td>5150.00</td><td>69.21</td><td>74.00</td><td>-4.79</td><td>62.90</td><td>6.31</td><td>Peak</td><td>102</td><td>15</td></tr><tr><td>3</td><td>5350.00</td><td>46.20</td><td>54.00</td><td>-7.80</td><td>40.48</td><td>5.72</td><td>Average</td><td>102</td><td>308</td></tr><tr><td>4</td><td>5350.00</td><td>58.22</td><td>74.00</td><td>-15.78</td><td>52.50</td><td>5.72</td><td>Peak</td><td>102</td><td>308</td></tr><tr><td>5</td><td>8288.00</td><td>51.65</td><td>54.00</td><td>-2.35</td><td>40.95</td><td>10.70</td><td>Average</td><td>247</td><td>332</td></tr><tr><td>6</td><td>8288.00</td><td>56.65</td><td>74.00</td><td>-17.35</td><td>45.95</td><td>10.70</td><td>Peak</td><td>247</td><td>332</td></tr><tr><td>7</td><td>10360.00</td><td>56.93</td><td>68.20</td><td>-11.27</td><td>42.48</td><td>14.45</td><td>Peak</td><td>211</td><td>12</td></tr><tr><td>8</td><td>15540.00</td><td>46.91</td><td>54.00</td><td>-7.09</td><td>30.51</td><td>16.40</td><td>Average</td><td>215</td><td>25</td></tr><tr><td>9</td><td>15540.00</td><td>58.92</td><td>74.00</td><td>-15.08</td><td>42.52</td><td>16.40</td><td>Peak</td><td>215</td><td>25</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	50.72	54.00	-3.28	44.41	6.31	Average	102	15	2	5150.00	69.21	74.00	-4.79	62.90	6.31	Peak	102	15	3	5350.00	46.20	54.00	-7.80	40.48	5.72	Average	102	308	4	5350.00	58.22	74.00	-15.78	52.50	5.72	Peak	102	308	5	8288.00	51.65	54.00	-2.35	40.95	10.70	Average	247	332	6	8288.00	56.65	74.00	-17.35	45.95	10.70	Peak	247	332	7	10360.00	56.93	68.20	-11.27	42.48	14.45	Peak	211	12	8	15540.00	46.91	54.00	-7.09	30.51	16.40	Average	215	25	9	15540.00	58.92	74.00	-15.08	42.52	16.40	Peak	215	25
	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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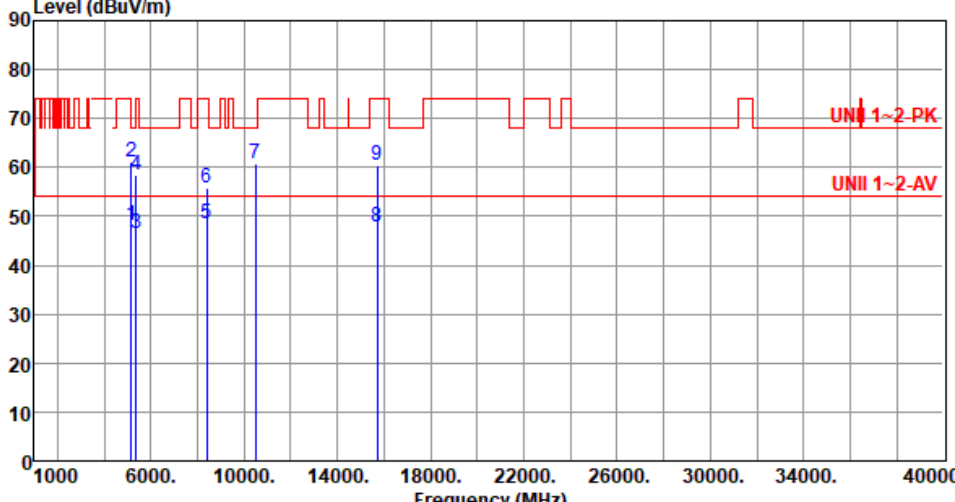


Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																																																																												
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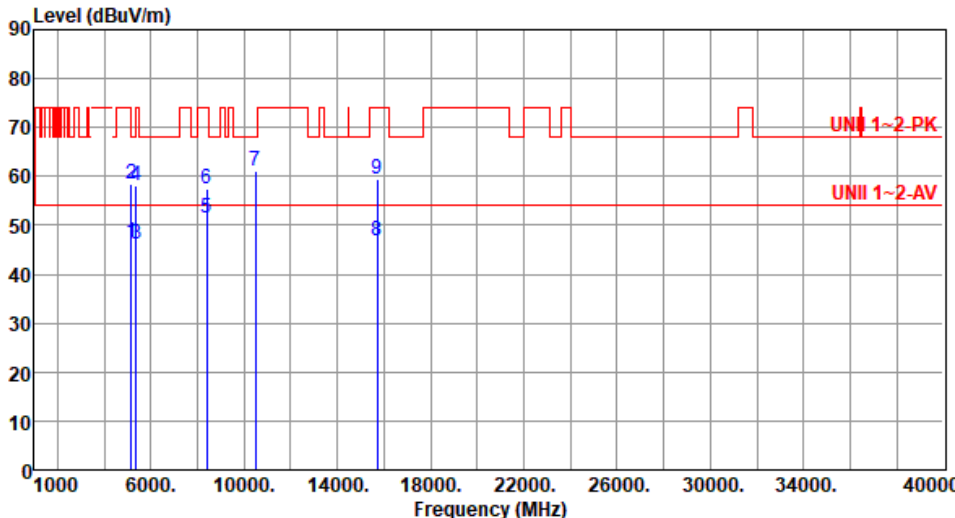


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Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>48.20</td><td>54.00</td><td>-5.80</td><td>41.89</td><td>6.31</td><td>Average</td><td>187</td><td>339</td></tr><tr><td>2</td><td>5150.00</td><td>61.16</td><td>74.00</td><td>-12.84</td><td>54.85</td><td>6.31</td><td>Peak</td><td>187</td><td>339</td></tr><tr><td>3</td><td>5350.00</td><td>46.41</td><td>54.00</td><td>-7.59</td><td>40.69</td><td>5.72</td><td>Average</td><td>187</td><td>339</td></tr><tr><td>4</td><td>5350.00</td><td>58.49</td><td>74.00</td><td>-15.51</td><td>52.77</td><td>5.72</td><td>Peak</td><td>187</td><td>339</td></tr><tr><td>5</td><td>8384.00</td><td>48.61</td><td>54.00</td><td>-5.39</td><td>37.87</td><td>10.74</td><td>Average</td><td>235</td><td>65</td></tr><tr><td>6</td><td>8384.00</td><td>55.71</td><td>74.00</td><td>-18.29</td><td>44.97</td><td>10.74</td><td>Peak</td><td>235</td><td>65</td></tr><tr><td>7</td><td>10480.00</td><td>60.61</td><td>68.20</td><td>-7.59</td><td>45.98</td><td>14.63</td><td>Peak</td><td>239</td><td>52</td></tr><tr><td>8</td><td>15720.00</td><td>47.73</td><td>54.00</td><td>-6.27</td><td>31.78</td><td>15.95</td><td>Average</td><td>222</td><td>49</td></tr><tr><td>9</td><td>15720.00</td><td>60.43</td><td>74.00</td><td>-13.57</td><td>44.48</td><td>15.95</td><td>Peak</td><td>222</td><td>49</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	5150.00	48.20	54.00	-5.80	41.89	6.31	Average	187	339	2	5150.00	61.16	74.00	-12.84	54.85	6.31	Peak	187	339	3	5350.00	46.41	54.00	-7.59	40.69	5.72	Average	187	339	4	5350.00	58.49	74.00	-15.51	52.77	5.72	Peak	187	339	5	8384.00	48.61	54.00	-5.39	37.87	10.74	Average	235	65	6	8384.00	55.71	74.00	-18.29	44.97	10.74	Peak	235	65	7	10480.00	60.61	68.20	-7.59	45.98	14.63	Peak	239	52	8	15720.00	47.73	54.00	-6.27	31.78	15.95	Average	222	49	9	15720.00	60.43	74.00	-13.57	44.48	15.95	Peak	222	49
	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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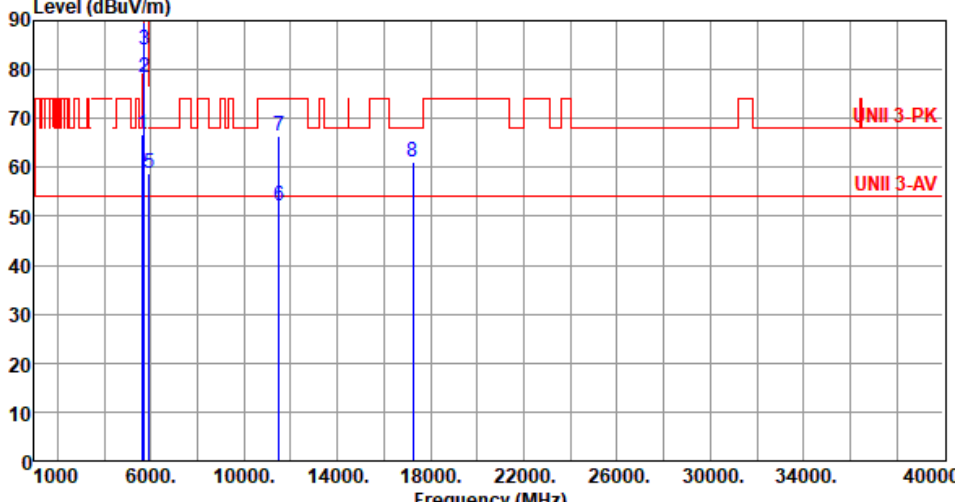


Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5240																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																							
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
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1	5650.00	64.76	68.20	-3.44	58.44	6.32	Peak	147	14																																																																																				
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3	5720.00	81.73	110.80	-29.07	75.15	6.58	Peak	147	14																																																																																				
4	5725.00	86.74	122.20	-35.46	80.15	6.59	Peak	147	14																																																																																				
5	5925.00	58.48	68.20	-9.72	51.45	7.03	Peak	147	14																																																																																				
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5785																																																												
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4	11570.00	63.05	74.00	-10.95	47.67	15.38	Peak	195	308																																																						
5	17355.00	61.39	68.20	-6.81	42.41	18.98	Peak	100	305																																																						
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).																																																															

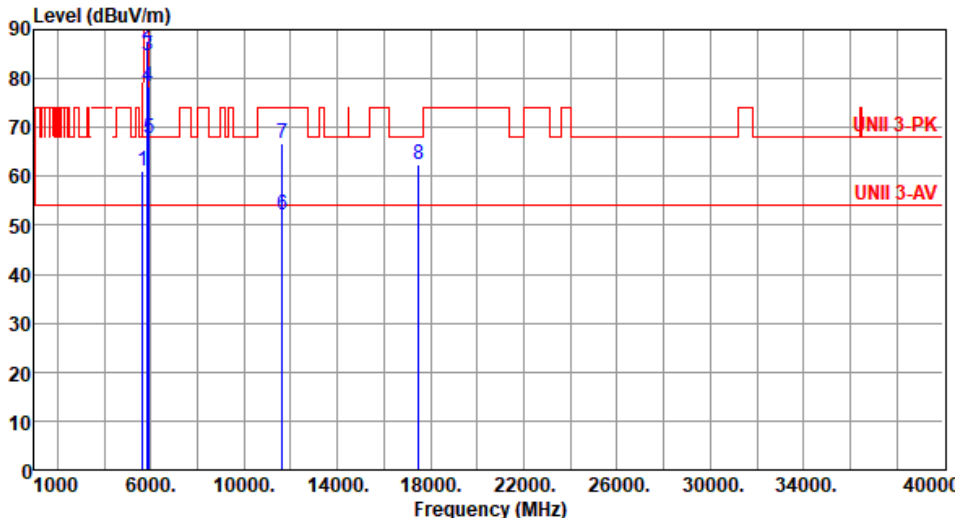


Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																															
<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>60.20</td><td>68.20</td><td>-8.00</td><td>53.88</td><td>6.32</td><td>Peak</td><td>177</td><td>315</td></tr><tr><td>2</td><td>5925.00</td><td>61.25</td><td>68.20</td><td>-6.95</td><td>54.22</td><td>7.03</td><td>Peak</td><td>177</td><td>315</td></tr><tr><td>3</td><td>11570.00</td><td>52.16</td><td>54.00</td><td>-1.84</td><td>36.78</td><td>15.38</td><td>Average</td><td>111</td><td>352</td></tr><tr><td>4</td><td>11570.00</td><td>66.74</td><td>74.00</td><td>-7.26</td><td>51.36</td><td>15.38</td><td>Peak</td><td>111</td><td>352</td></tr><tr><td>5</td><td>17355.00</td><td>61.87</td><td>68.20</td><td>-6.33</td><td>42.89</td><td>18.98</td><td>Peak</td><td>100</td><td>350</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	60.20	68.20	-8.00	53.88	6.32	Peak	177	315	2	5925.00	61.25	68.20	-6.95	54.22	7.03	Peak	177	315	3	11570.00	52.16	54.00	-1.84	36.78	15.38	Average	111	352	4	11570.00	66.74	74.00	-7.26	51.36	15.38	Peak	111	352	5	17355.00	61.87	68.20	-6.33	42.89	18.98	Peak	100	350
	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	60.20	68.20	-8.00	53.88	6.32	Peak	177	315																																																						
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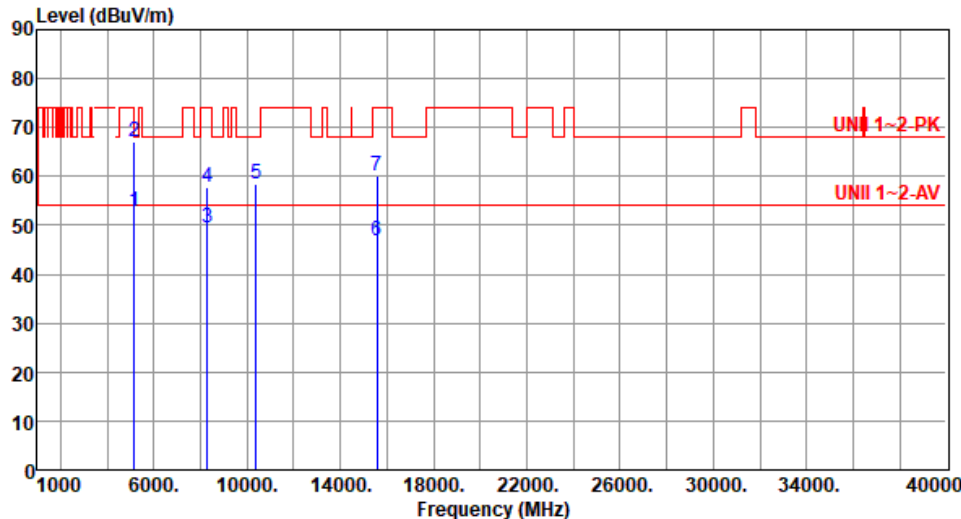


Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):66			
Level (dBUV/m) </			

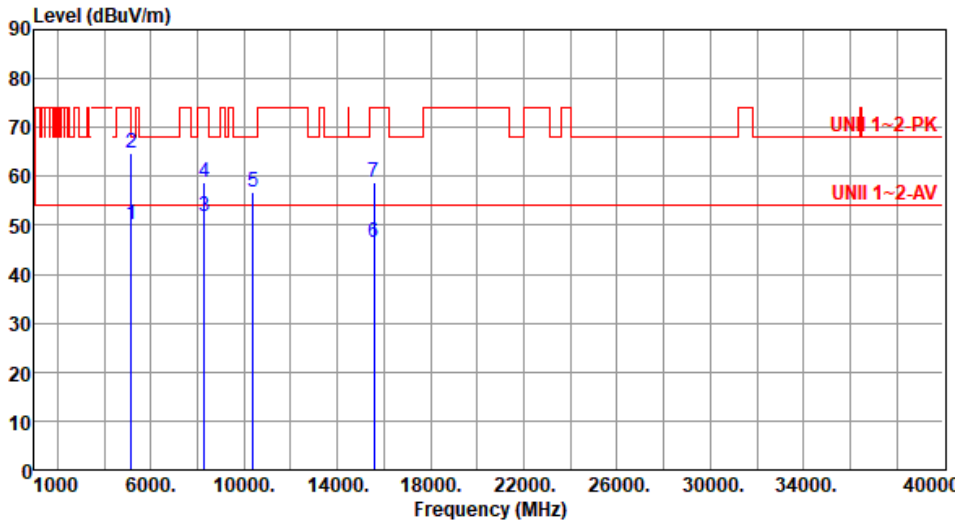


Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																																																													
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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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Unwanted Emissions (Above 1GHz) for ax HE40-OFDMA

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5190																																																																																
Polarization	Horizontal																																																																																		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																			
Level (dBuV/m)  <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>5150.00</td><td>52.77</td><td>54.00</td><td>-1.23</td><td>46.46</td><td>6.31</td><td>Average</td><td>204</td><td>345</td></tr><tr><td>2</td><td>5150.00</td><td>67.03</td><td>74.00</td><td>-6.97</td><td>60.72</td><td>6.31</td><td>Peak</td><td>204</td><td>345</td></tr><tr><td>3</td><td>8304.00</td><td>49.38</td><td>54.00</td><td>-4.62</td><td>38.69</td><td>10.69</td><td>Average</td><td>241</td><td>62</td></tr><tr><td>4</td><td>8304.00</td><td>57.64</td><td>74.00</td><td>-16.36</td><td>46.95</td><td>10.69</td><td>Peak</td><td>241</td><td>62</td></tr><tr><td>5</td><td>10380.00</td><td>58.35</td><td>68.20</td><td>-9.85</td><td>43.89</td><td>14.46</td><td>Peak</td><td>100</td><td>51</td></tr><tr><td>6</td><td>15570.00</td><td>46.85</td><td>54.00</td><td>-7.15</td><td>30.68</td><td>16.17</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>7</td><td>15570.00</td><td>59.99</td><td>74.00</td><td>-14.01</td><td>43.82</td><td>16.17</td><td>Peak</td><td>100</td><td>50</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	5150.00	52.77	54.00	-1.23	46.46	6.31	Average	204	345	2	5150.00	67.03	74.00	-6.97	60.72	6.31	Peak	204	345	3	8304.00	49.38	54.00	-4.62	38.69	10.69	Average	241	62	4	8304.00	57.64	74.00	-16.36	46.95	10.69	Peak	241	62	5	10380.00	58.35	68.20	-9.85	43.89	14.46	Peak	100	51	6	15570.00	46.85	54.00	-7.15	30.68	16.17	Average	100	50	7	15570.00	59.99	74.00	-14.01	43.82	16.17	Peak	100	50
	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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3	8304.00	49.38	54.00	-4.62	38.69	10.69	Average	241	62																																																																										
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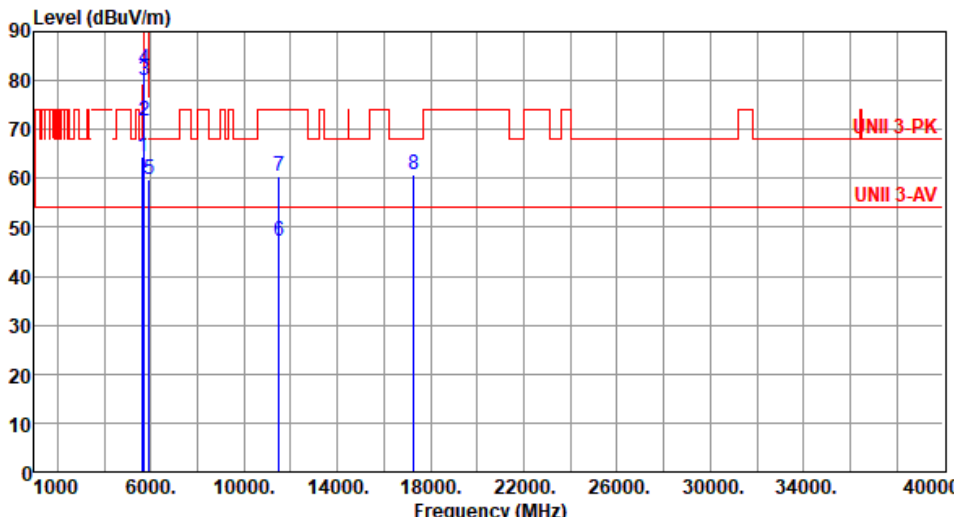
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5190																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																			
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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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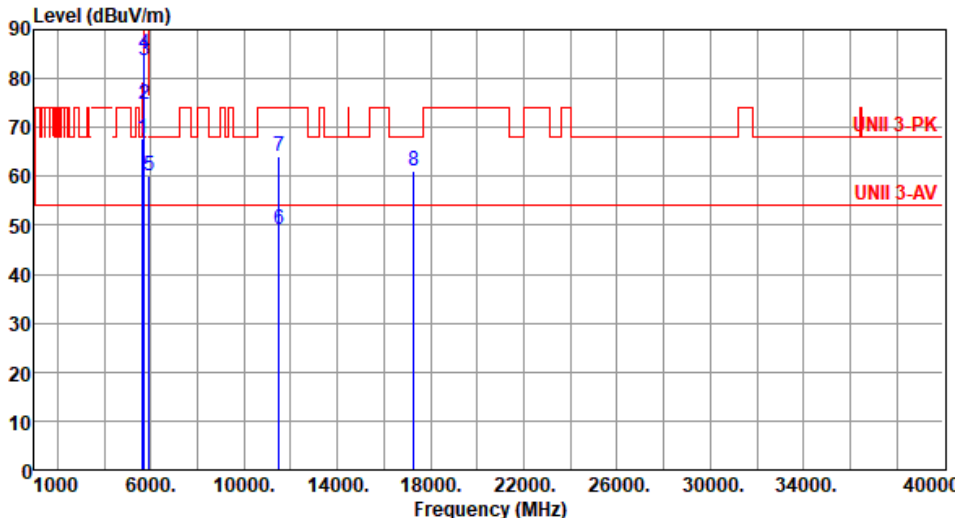
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5230																																																																																																				
Polarization	Horizontal																																																																																																						
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	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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8	15690.00	46.93	54.00	-7.07	30.95	15.98	Average	248	46																																																																																														
9	15690.00	59.73	74.00	-14.27	43.75	15.98	Peak	248	46																																																																																														
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																							



Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5230																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																							
Level (dBuV/m) UNII 1~2-PK UNII 1~2-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>5150.00</td><td>51.05</td><td>54.00</td><td>-2.95</td><td>44.74</td><td>6.31</td><td>Average</td><td>195</td><td>21</td></tr><tr><td>2</td><td>5150.00</td><td>63.17</td><td>74.00</td><td>-10.83</td><td>56.86</td><td>6.31</td><td>Peak</td><td>195</td><td>21</td></tr><tr><td>3</td><td>5350.00</td><td>46.20</td><td>54.00</td><td>-7.80</td><td>40.48</td><td>5.72</td><td>Average</td><td>195</td><td>21</td></tr><tr><td>4</td><td>5350.00</td><td>58.11</td><td>74.00</td><td>-15.89</td><td>52.39</td><td>5.72</td><td>Peak</td><td>195</td><td>21</td></tr><tr><td>5</td><td>8368.00</td><td>51.59</td><td>54.00</td><td>-2.41</td><td>40.87</td><td>10.72</td><td>Average</td><td>250</td><td>342</td></tr><tr><td>6</td><td>8368.00</td><td>58.59</td><td>74.00</td><td>-15.41</td><td>47.87</td><td>10.72</td><td>Peak</td><td>250</td><td>342</td></tr><tr><td>7</td><td>10460.00</td><td>57.19</td><td>68.20</td><td>-11.01</td><td>42.60</td><td>14.59</td><td>Peak</td><td>221</td><td>11</td></tr><tr><td>8</td><td>15690.00</td><td>46.28</td><td>54.00</td><td>-7.72</td><td>30.30</td><td>15.98</td><td>Average</td><td>215</td><td>30</td></tr><tr><td>9</td><td>15690.00</td><td>58.56</td><td>74.00</td><td>-15.44</td><td>42.58</td><td>15.98</td><td>Peak</td><td>215</td><td>30</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	51.05	54.00	-2.95	44.74	6.31	Average	195	21	2	5150.00	63.17	74.00	-10.83	56.86	6.31	Peak	195	21	3	5350.00	46.20	54.00	-7.80	40.48	5.72	Average	195	21	4	5350.00	58.11	74.00	-15.89	52.39	5.72	Peak	195	21	5	8368.00	51.59	54.00	-2.41	40.87	10.72	Average	250	342	6	8368.00	58.59	74.00	-15.41	47.87	10.72	Peak	250	342	7	10460.00	57.19	68.20	-11.01	42.60	14.59	Peak	221	11	8	15690.00	46.28	54.00	-7.72	30.30	15.98	Average	215	30	9	15690.00	58.56	74.00	-15.44	42.58	15.98	Peak	215	30
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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5	8368.00	51.59	54.00	-2.41	40.87	10.72	Average	250	342																																																																																														
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Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5755																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																																																													
Level (dBUV/m)  <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>64.33</td><td>68.20</td><td>-3.87</td><td>58.01</td><td>6.32</td><td>Peak</td><td>150</td><td>13</td></tr><tr><td>2</td><td>5700.00</td><td>71.82</td><td>105.20</td><td>-33.38</td><td>65.29</td><td>6.53</td><td>Peak</td><td>150</td><td>13</td></tr><tr><td>3</td><td>5720.00</td><td>80.13</td><td>110.80</td><td>-30.67</td><td>73.55</td><td>6.58</td><td>Peak</td><td>150</td><td>13</td></tr><tr><td>4</td><td>5725.00</td><td>82.34</td><td>122.20</td><td>-39.86</td><td>75.75</td><td>6.59</td><td>Peak</td><td>150</td><td>13</td></tr><tr><td>5</td><td>5925.00</td><td>59.90</td><td>68.20</td><td>-8.30</td><td>52.87</td><td>7.03</td><td>Peak</td><td>150</td><td>13</td></tr><tr><td>6</td><td>11510.00</td><td>47.06</td><td>54.00</td><td>-6.94</td><td>31.66</td><td>15.40</td><td>Average</td><td>195</td><td>309</td></tr><tr><td>7</td><td>11510.00</td><td>60.28</td><td>74.00</td><td>-13.72</td><td>44.88</td><td>15.40</td><td>Peak</td><td>195</td><td>309</td></tr><tr><td>8</td><td>17265.00</td><td>60.62</td><td>68.20</td><td>-7.58</td><td>42.29</td><td>18.33</td><td>Peak</td><td>100</td><td>315</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	64.33	68.20	-3.87	58.01	6.32	Peak	150	13	2	5700.00	71.82	105.20	-33.38	65.29	6.53	Peak	150	13	3	5720.00	80.13	110.80	-30.67	73.55	6.58	Peak	150	13	4	5725.00	82.34	122.20	-39.86	75.75	6.59	Peak	150	13	5	5925.00	59.90	68.20	-8.30	52.87	7.03	Peak	150	13	6	11510.00	47.06	54.00	-6.94	31.66	15.40	Average	195	309	7	11510.00	60.28	74.00	-13.72	44.88	15.40	Peak	195	309	8	17265.00	60.62	68.20	-7.58	42.29	18.33	Peak	100	315
	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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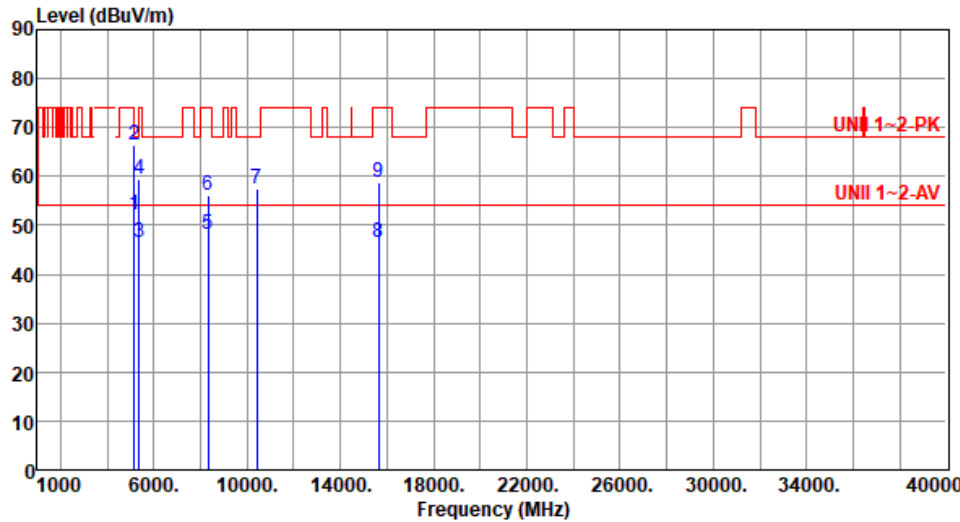
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5755																																																																																										
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Test By :Akun Chung Temperature(°C):24 Humidity(%):66																																																																																													
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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																																																																																				
1	5650.00	67.62	68.20	-0.58	61.30	6.32	Peak	191	315																																																																																				
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Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5795																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung 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 HE40-OFDMA	Test Freq. (MHz)	5795
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):66			
Level (dBuV/m)			

Unwanted Emissions (Above 1GHz) for ax HE80-OFDMA

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66									
Level (dBUV/m)  Frequency (MHz)									
	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	52.26	54.00	-1.74	45.95	6.31	Average	194	345
2	5150.00	66.26	74.00	-7.74	59.95	6.31	Peak	194	345
3	5350.00	46.59	54.00	-7.41	40.87	5.72	Average	194	345
4	5350.00	59.41	74.00	-14.59	53.69	5.72	Peak	194	345
5	8336.00	48.25	54.00	-5.75	37.54	10.71	Average	239	68
6	8336.00	56.17	74.00	-17.83	45.46	10.71	Peak	239	68
7	10420.00	57.40	68.20	-10.80	42.89	14.51	Peak	100	50
8	15630.00	46.53	54.00	-7.47	30.58	15.95	Average	100	55
9	15630.00	58.90	74.00	-15.10	42.95	15.95	Peak	100	55

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																							
<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>50.38</td><td>54.00</td><td>-3.62</td><td>44.07</td><td>6.31</td><td>Average</td><td>158</td><td>9</td></tr><tr><td>2</td><td>5150.00</td><td>62.20</td><td>74.00</td><td>-11.80</td><td>55.89</td><td>6.31</td><td>Peak</td><td>158</td><td>9</td></tr><tr><td>3</td><td>5350.00</td><td>46.22</td><td>54.00</td><td>-7.78</td><td>40.50</td><td>5.72</td><td>Average</td><td>158</td><td>9</td></tr><tr><td>4</td><td>5350.00</td><td>58.28</td><td>74.00</td><td>-15.72</td><td>52.56</td><td>5.72</td><td>Peak</td><td>158</td><td>9</td></tr><tr><td>5</td><td>8336.00</td><td>51.29</td><td>54.00</td><td>-2.71</td><td>40.58</td><td>10.71</td><td>Average</td><td>255</td><td>348</td></tr><tr><td>6</td><td>8336.00</td><td>58.18</td><td>74.00</td><td>-15.82</td><td>47.47</td><td>10.71</td><td>Peak</td><td>255</td><td>348</td></tr><tr><td>7</td><td>10420.00</td><td>56.79</td><td>68.20</td><td>-11.41</td><td>42.28</td><td>14.51</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>8</td><td>15630.00</td><td>46.06</td><td>54.00</td><td>-7.94</td><td>30.11</td><td>15.95</td><td>Average</td><td>100</td><td>15</td></tr><tr><td>9</td><td>15630.00</td><td>58.13</td><td>74.00</td><td>-15.87</td><td>42.18</td><td>15.95</td><td>Peak</td><td>100</td><td>15</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	50.38	54.00	-3.62	44.07	6.31	Average	158	9	2	5150.00	62.20	74.00	-11.80	55.89	6.31	Peak	158	9	3	5350.00	46.22	54.00	-7.78	40.50	5.72	Average	158	9	4	5350.00	58.28	74.00	-15.72	52.56	5.72	Peak	158	9	5	8336.00	51.29	54.00	-2.71	40.58	10.71	Average	255	348	6	8336.00	58.18	74.00	-15.82	47.47	10.71	Peak	255	348	7	10420.00	56.79	68.20	-11.41	42.28	14.51	Peak	100	20	8	15630.00	46.06	54.00	-7.94	30.11	15.95	Average	100	15	9	15630.00	58.13	74.00	-15.87	42.18	15.95	Peak	100	15
	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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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).																																																																																																							



Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5775						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):66									
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz)									
	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	60.52	68.20	-7.68	54.20	6.32	Peak	167	354
2	5700.00	71.29	105.20	-33.91	64.76	6.53	Peak	167	354
3	5720.00	74.84	110.80	-35.96	68.26	6.58	Peak	167	354
4	5725.00	74.98	122.20	-47.22	68.39	6.59	Peak	167	354
5	5850.00	70.81	122.20	-51.39	64.04	6.77	Peak	167	354
6	5855.00	69.54	110.80	-41.26	62.74	6.80	Peak	167	354
7	5875.00	61.02	105.20	-44.18	54.14	6.88	Peak	167	354
8	5925.00	58.73	68.20	-9.47	51.70	7.03	Peak	167	354
9	11550.00	45.83	54.00	-8.17	30.44	15.39	Average	100	308
10	11550.00	57.94	74.00	-16.06	42.55	15.39	Peak	100	308
11	17325.00	60.74	68.20	-7.46	42.06	18.68	Peak	100	311

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).



Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5775
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):66			
Level (dBUV/m) <			

**Configuration 2: POE mode****Unwanted Emissions (Below 1GHz)**

Modulation	11a		Test Freq. (MHz)		5200																																																																							
Polarization	Horizontal																																																																											
Test By :Brad Wu Temperature(°C):24 Humidity(%):63																																																																												
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>124.55</td><td>31.05</td><td>43.50</td><td>-12.45</td><td>41.48</td><td>-10.43</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>165.25</td><td>31.35</td><td>43.50</td><td>-12.15</td><td>40.05</td><td>-8.70</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.55</td><td>31.12</td><td>46.00</td><td>-14.88</td><td>40.91</td><td>-9.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>374.88</td><td>34.52</td><td>46.00</td><td>-11.48</td><td>40.72</td><td>-6.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>498.85</td><td>33.87</td><td>46.00</td><td>-12.13</td><td>36.63</td><td>-2.76</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>624.88</td><td>33.58</td><td>46.00</td><td>-12.42</td><td>33.36</td><td>0.22</td><td>Peak</td><td>---</td><td>---</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	124.55	31.05	43.50	-12.45	41.48	-10.43	Peak	---	---	2	165.25	31.35	43.50	-12.15	40.05	-8.70	Peak	---	---	3	249.55	31.12	46.00	-14.88	40.91	-9.79	Peak	---	---	4	374.88	34.52	46.00	-11.48	40.72	-6.20	Peak	---	---	5	498.85	33.87	46.00	-12.13	36.63	-2.76	Peak	---	---	6	624.88	33.58	46.00	-12.42	33.36	0.22	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																			
1	124.55	31.05	43.50	-12.45	41.48	-10.43	Peak	---	---																																																																			
2	165.25	31.35	43.50	-12.15	40.05	-8.70	Peak	---	---																																																																			
3	249.55	31.12	46.00	-14.88	40.91	-9.79	Peak	---	---																																																																			
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																												

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Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) </			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) <			

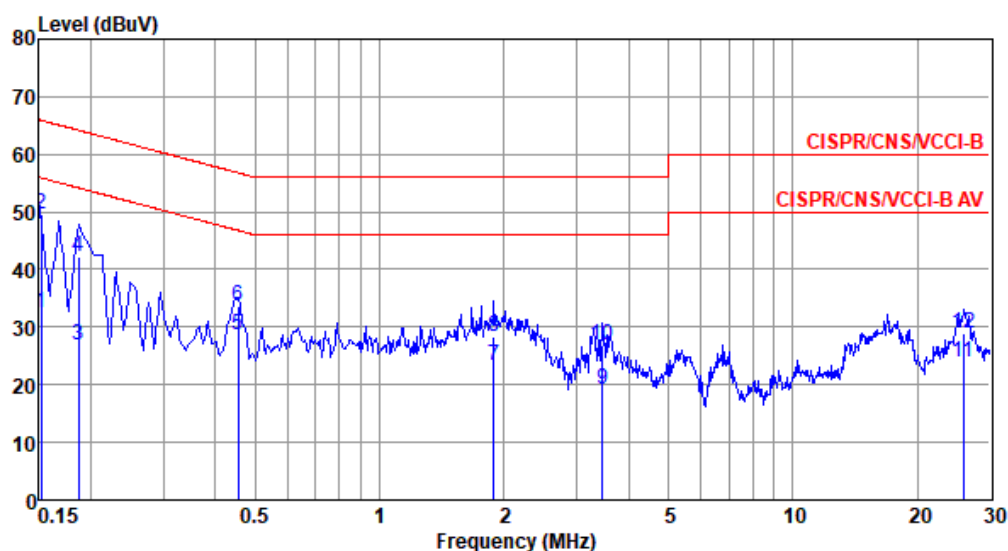
Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-1.17	-0.97	-1.57	-0.68
T20°CVmin	-2.06	-1.32	-2.01	-2.02
T50°CVnom	-5.97	-6.14	-5.38	-6.25
T40°CVnom	-4.33	-4.32	-4.01	-4.17
T30°CVnom	-3.12	-2.93	-2.98	-3.63
T20°CVnom	-0.81	-1.18	-1.56	-0.85
T10°CVnom	-1.77	-2.42	-2.87	-1.53
T0°CVnom	-4.82	-4.79	-4.33	-4.88
T-10°CVnom	0.60	0.14	0.09	0.42
T-20°CVnom	1.05	1.37	1.53	1.43
T-30°CVnom	1.83	2.44	2.35	1.88
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	-1.52	-1.48	-1.39	-1.19
T20°CVmin	-1.65	-2.01	-1.83	-1.47
T50CVnom	-5.84	-5.01	-6.14	-5.84
T40°CVnom	-4.69	-4.16	-4.81	-4.82
T30°CVnom	-3.17	-3.16	-2.99	-3.39
T20°CVnom	-1.59	-1.18	-1.63	-1.48
T10°CVnom	-1.73	-1.62	-1.53	-1.81
T0°CVnom	-4.25	-4.52	-3.93	-4.38
T-10°CVnom	0.19	0.54	-0.03	0.35
T-20°CVnom	0.93	0.66	1.52	1.66
T-30°CVnom	1.67	2.19	2.06	1.65
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

Configuration 1: Adapter mode

Modulation Mode	11a	Test Freq. (MHz)	5200
Power Phase	Line		

Test by : Joe Liao Temperature: 20°C Humidity: 59%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.152	32.54	55.91	-23.37	22.58	9.68	0.08	0.20	Average
2*	0.152	49.67	65.91	-16.24	39.71	9.68	0.08	0.20	QP
3	0.186	26.79	54.20	-27.41	16.82	9.68	0.08	0.21	Average
4	0.186	42.29	64.20	-21.91	32.32	9.68	0.08	0.21	QP
5	0.454	28.61	46.80	-18.19	18.49	9.67	0.09	0.36	Average
6	0.454	33.59	56.80	-23.21	23.47	9.67	0.09	0.36	QP
7	1.888	23.37	46.00	-22.63	13.09	9.69	0.20	0.39	Average
8	1.888	28.46	56.00	-27.54	18.18	9.69	0.20	0.39	QP
9	3.454	19.09	46.00	-26.91	8.77	9.70	0.21	0.41	Average
10	3.454	26.76	56.00	-29.24	16.44	9.70	0.21	0.41	QP
11	25.864	23.97	50.00	-26.03	12.85	9.69	0.71	0.72	Average
12	25.864	29.03	60.00	-30.97	17.91	9.69	0.71	0.72	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)	5200																																																																																																																																																						
Power Phase	Neutral																																																																																																																																																								
Test by : Joe Liao Temperature: 20°C Humidity: 59%																																																																																																																																																									
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th></th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>0.168</td><td>31.98</td><td>55.08</td><td>-23.10</td><td>22.12</td><td>9.61</td><td>0.08</td><td>0.17</td><td>Average</td></tr><tr><td>2*</td><td>0.168</td><td>50.02</td><td>65.08</td><td>-15.06</td><td>40.16</td><td>9.61</td><td>0.08</td><td>0.17</td><td>QP</td></tr><tr><td>3</td><td>0.213</td><td>26.12</td><td>53.10</td><td>-26.98</td><td>16.25</td><td>9.61</td><td>0.08</td><td>0.18</td><td>Average</td></tr><tr><td>4</td><td>0.213</td><td>43.22</td><td>63.10</td><td>-19.88</td><td>33.35</td><td>9.61</td><td>0.08</td><td>0.18</td><td>QP</td></tr><tr><td>5</td><td>0.258</td><td>23.17</td><td>51.51</td><td>-28.34</td><td>13.30</td><td>9.61</td><td>0.08</td><td>0.18</td><td>Average</td></tr><tr><td>6</td><td>0.258</td><td>37.03</td><td>61.51</td><td>-24.48</td><td>27.16</td><td>9.61</td><td>0.08</td><td>0.18</td><td>QP</td></tr><tr><td>7</td><td>0.456</td><td>21.31</td><td>46.76</td><td>-25.45</td><td>11.41</td><td>9.61</td><td>0.09</td><td>0.20</td><td>Average</td></tr><tr><td>8</td><td>0.456</td><td>28.36</td><td>56.76</td><td>-28.40</td><td>18.46</td><td>9.61</td><td>0.09</td><td>0.20</td><td>QP</td></tr><tr><td>9</td><td>2.144</td><td>22.32</td><td>46.00</td><td>-23.68</td><td>12.20</td><td>9.62</td><td>0.20</td><td>0.30</td><td>Average</td></tr><tr><td>10</td><td>2.144</td><td>27.15</td><td>56.00</td><td>-28.85</td><td>17.03</td><td>9.62</td><td>0.20</td><td>0.30</td><td>QP</td></tr><tr><td>11</td><td>26.001</td><td>26.47</td><td>50.00</td><td>-23.53</td><td>15.39</td><td>9.78</td><td>0.71</td><td>0.59</td><td>Average</td></tr><tr><td>12</td><td>26.001</td><td>31.05</td><td>60.00</td><td>-28.95</td><td>19.97</td><td>9.78</td><td>0.71</td><td>0.59</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark		MHz	dBuV	Line	Limit	Level	dB	loss	dB					dBuV	dB	dBuV		dB			1	0.168	31.98	55.08	-23.10	22.12	9.61	0.08	0.17	Average	2*	0.168	50.02	65.08	-15.06	40.16	9.61	0.08	0.17	QP	3	0.213	26.12	53.10	-26.98	16.25	9.61	0.08	0.18	Average	4	0.213	43.22	63.10	-19.88	33.35	9.61	0.08	0.18	QP	5	0.258	23.17	51.51	-28.34	13.30	9.61	0.08	0.18	Average	6	0.258	37.03	61.51	-24.48	27.16	9.61	0.08	0.18	QP	7	0.456	21.31	46.76	-25.45	11.41	9.61	0.09	0.20	Average	8	0.456	28.36	56.76	-28.40	18.46	9.61	0.09	0.20	QP	9	2.144	22.32	46.00	-23.68	12.20	9.62	0.20	0.30	Average	10	2.144	27.15	56.00	-28.85	17.03	9.62	0.20	0.30	QP	11	26.001	26.47	50.00	-23.53	15.39	9.78	0.71	0.59	Average	12	26.001	31.05	60.00	-28.95	19.97	9.78	0.71	0.59	QP
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																																
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Modulation Mode	11a	Test Freq. (MHz)	5825																																																																																																																																		
Power Phase	Line																																																																																																																																				
Test by : Joe Liao Temperature: 20°C Humidity: 59%																																																																																																																																					
Level (dBuV) Frequency (MHz) <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>0.152</td><td>32.61</td><td>55.91</td><td>-23.30</td><td>22.65</td><td>9.68</td><td>0.08</td><td>0.20</td><td>Average</td></tr><tr><td>2*</td><td>0.152</td><td>50.13</td><td>65.91</td><td>-15.78</td><td>40.17</td><td>9.68</td><td>0.08</td><td>0.20</td><td>QP</td></tr><tr><td>3</td><td>0.213</td><td>25.27</td><td>53.10</td><td>-27.83</td><td>15.28</td><td>9.68</td><td>0.08</td><td>0.23</td><td>Average</td></tr><tr><td>4</td><td>0.213</td><td>39.68</td><td>63.10</td><td>-23.42</td><td>29.69</td><td>9.68</td><td>0.08</td><td>0.23</td><td>QP</td></tr><tr><td>5</td><td>0.454</td><td>29.01</td><td>46.80</td><td>-17.79</td><td>18.89</td><td>9.67</td><td>0.09</td><td>0.36</td><td>Average</td></tr><tr><td>6</td><td>0.454</td><td>33.94</td><td>56.80</td><td>-22.86</td><td>23.82</td><td>9.67</td><td>0.09</td><td>0.36</td><td>QP</td></tr><tr><td>7</td><td>2.033</td><td>23.43</td><td>46.00</td><td>-22.57</td><td>13.15</td><td>9.69</td><td>0.20</td><td>0.39</td><td>Average</td></tr><tr><td>8</td><td>2.033</td><td>28.88</td><td>56.00</td><td>-27.12</td><td>18.60</td><td>9.69</td><td>0.20</td><td>0.39</td><td>QP</td></tr><tr><td>9</td><td>16.661</td><td>22.55</td><td>50.00</td><td>-27.45</td><td>11.66</td><td>9.73</td><td>0.59</td><td>0.57</td><td>Average</td></tr><tr><td>10</td><td>16.661</td><td>28.78</td><td>60.00</td><td>-31.22</td><td>17.89</td><td>9.73</td><td>0.59</td><td>0.57</td><td>QP</td></tr><tr><td>11</td><td>26.001</td><td>24.50</td><td>50.00</td><td>-25.50</td><td>13.38</td><td>9.69</td><td>0.71</td><td>0.72</td><td>Average</td></tr><tr><td>12</td><td>26.001</td><td>29.00</td><td>60.00</td><td>-31.00</td><td>17.88</td><td>9.69</td><td>0.71</td><td>0.72</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	0.152	32.61	55.91	-23.30	22.65	9.68	0.08	0.20	Average	2*	0.152	50.13	65.91	-15.78	40.17	9.68	0.08	0.20	QP	3	0.213	25.27	53.10	-27.83	15.28	9.68	0.08	0.23	Average	4	0.213	39.68	63.10	-23.42	29.69	9.68	0.08	0.23	QP	5	0.454	29.01	46.80	-17.79	18.89	9.67	0.09	0.36	Average	6	0.454	33.94	56.80	-22.86	23.82	9.67	0.09	0.36	QP	7	2.033	23.43	46.00	-22.57	13.15	9.69	0.20	0.39	Average	8	2.033	28.88	56.00	-27.12	18.60	9.69	0.20	0.39	QP	9	16.661	22.55	50.00	-27.45	11.66	9.73	0.59	0.57	Average	10	16.661	28.78	60.00	-31.22	17.89	9.73	0.59	0.57	QP	11	26.001	24.50	50.00	-25.50	13.38	9.69	0.71	0.72	Average	12	26.001	29.00	60.00	-31.00	17.88	9.69	0.71	0.72	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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Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																																					

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

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

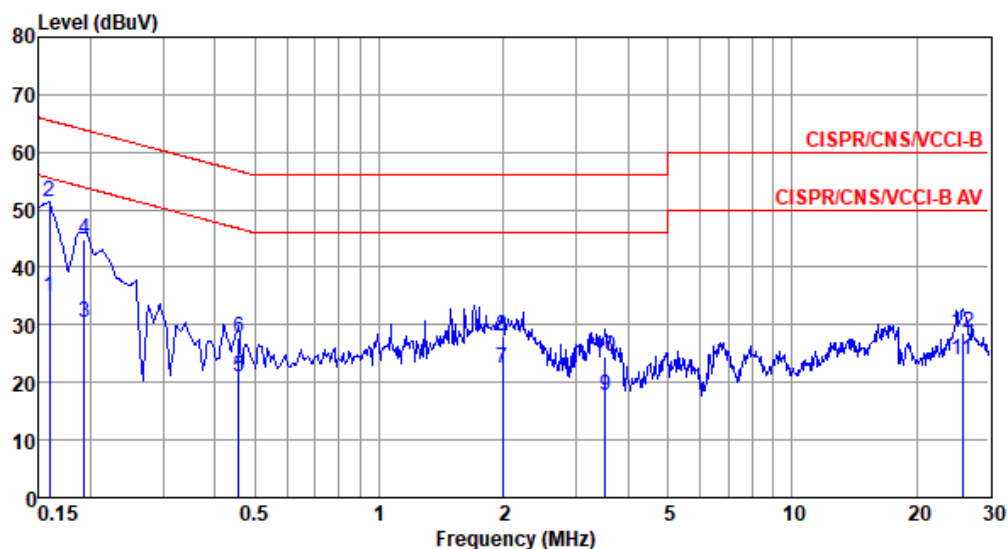


Modulation Mode	11a	Test Freq. (MHz)	5825
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 20°C

Humidity: 59%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	34.87	55.52	-20.65	25.02	9.61	0.08	0.16	Average
2*	0.159	51.31	65.52	-14.21	41.46	9.61	0.08	0.16	QP
3	0.193	30.41	53.89	-23.48	20.54	9.61	0.08	0.18	Average
4	0.193	44.98	63.89	-18.91	35.11	9.61	0.08	0.18	QP
5	0.456	20.93	46.76	-25.83	11.03	9.61	0.09	0.20	Average
6	0.456	27.74	56.76	-29.02	17.84	9.61	0.09	0.20	QP
7	1.991	22.47	46.00	-23.53	12.35	9.62	0.20	0.30	Average
8	1.991	28.02	56.00	-27.98	17.90	9.62	0.20	0.30	QP
9	3.528	17.69	46.00	-28.31	7.52	9.64	0.21	0.32	Average
10	3.528	24.38	56.00	-31.62	14.21	9.64	0.21	0.32	QP
11	25.864	24.05	50.00	-25.95	12.98	9.78	0.71	0.58	Average
12	25.864	28.71	60.00	-31.29	17.64	9.78	0.71	0.58	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).

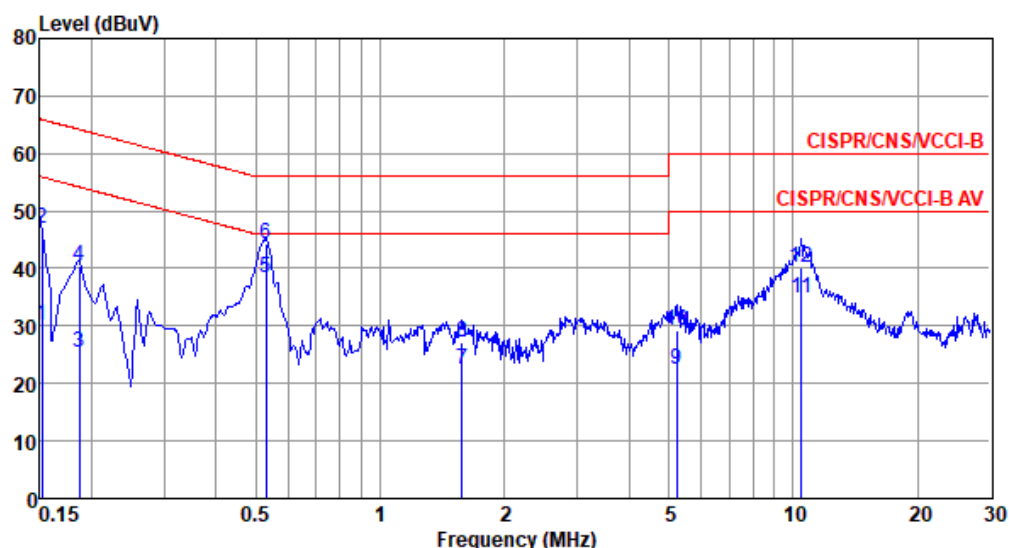
Configuration 2: POE mode

Modulation Mode	11a	Test Freq. (MHz)	5200
Power Phase	Line		

Test by : Joe Liao

Temperature: 20°C

Humidity: 59%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.152	30.13	55.91	-25.78	20.37	9.68	0.08	0.00	Average
2	0.152	46.95	65.91	-18.96	37.19	9.68	0.08	0.00	QP
3	0.186	25.53	54.20	-28.67	15.77	9.68	0.08	0.00	Average
4	0.186	40.48	64.20	-23.72	30.72	9.68	0.08	0.00	QP
5*	0.529	38.48	46.00	-7.52	28.71	9.67	0.10	0.00	Average
6	0.529	44.29	56.00	-11.71	34.52	9.67	0.10	0.00	QP
7	1.577	22.35	46.00	-23.65	12.47	9.69	0.19	0.00	Average
8	1.577	27.10	56.00	-28.90	17.22	9.69	0.19	0.00	QP
9	5.221	22.54	50.00	-27.46	12.55	9.71	0.28	0.00	Average
10	5.221	29.29	60.00	-30.71	19.30	9.71	0.28	0.00	QP
11	10.452	34.91	50.00	-15.09	24.71	9.74	0.46	0.00	Average
12	10.452	40.28	60.00	-19.72	30.08	9.74	0.46	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)	5200																																																																																																																																		
Power Phase	Neutral																																																																																																																																				
Test by : Joe Liao Temperature: 20°C Humidity: 59%																																																																																																																																					
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	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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Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
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Modulation Mode	11a	Test Freq. (MHz)	5825																																																																																																																																																						
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	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																																
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			dBuV	dB	dBuV		dB																																																																																																																																																		
1	0.152	29.83	55.91	-26.08	20.07	9.68	0.08	0.00	Average																																																																																																																																																
2	0.152	46.48	65.91	-19.43	36.72	9.68	0.08	0.00	QP																																																																																																																																																
3	0.204	25.20	53.45	-28.25	15.44	9.68	0.08	0.00	Average																																																																																																																																																
4	0.204	37.49	63.45	-25.96	27.73	9.68	0.08	0.00	QP																																																																																																																																																
5*	0.524	39.34	46.00	-6.66	29.57	9.67	0.10	0.00	Average																																																																																																																																																
6	0.524	44.85	56.00	-11.15	35.08	9.67	0.10	0.00	QP																																																																																																																																																
7	0.743	23.49	46.00	-22.51	13.68	9.68	0.13	0.00	Average																																																																																																																																																
8	0.743	28.43	56.00	-27.57	18.62	9.68	0.13	0.00	QP																																																																																																																																																
9	4.900	22.68	46.00	-23.32	12.71	9.71	0.26	0.00	Average																																																																																																																																																
10	4.900	28.85	56.00	-27.15	18.88	9.71	0.26	0.00	QP																																																																																																																																																
11	10.508	34.95	50.00	-15.05	24.75	9.74	0.46	0.00	Average																																																																																																																																																
12	10.508	40.27	60.00	-19.73	30.07	9.74	0.46	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)	5825																																																																																																																																																						
Power Phase	Neutral																																																																																																																																																								
Test by : Joe Liao Temperature: 20°C Humidity: 59%																																																																																																																																																									
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th></th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>0.159</td><td>28.82</td><td>55.52</td><td>-26.70</td><td>19.13</td><td>9.61</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>44.76</td><td>65.52</td><td>-20.76</td><td>35.07</td><td>9.61</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.204</td><td>27.20</td><td>53.45</td><td>-26.25</td><td>17.51</td><td>9.61</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.204</td><td>39.30</td><td>63.45</td><td>-24.15</td><td>29.61</td><td>9.61</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.276</td><td>27.51</td><td>50.94</td><td>-23.43</td><td>17.82</td><td>9.61</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.276</td><td>33.13</td><td>60.94</td><td>-27.81</td><td>23.44</td><td>9.61</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>7*</td><td>0.518</td><td>39.28</td><td>46.00</td><td>-6.72</td><td>29.57</td><td>9.61</td><td>0.10</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>0.518</td><td>44.19</td><td>56.00</td><td>-11.81</td><td>34.48</td><td>9.61</td><td>0.10</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>2.650</td><td>28.26</td><td>46.00</td><td>-17.74</td><td>18.43</td><td>9.63</td><td>0.20</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>2.650</td><td>32.98</td><td>56.00</td><td>-23.02</td><td>23.15</td><td>9.63</td><td>0.20</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>10.564</td><td>36.30</td><td>50.00</td><td>-13.70</td><td>26.14</td><td>9.70</td><td>0.46</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>10.564</td><td>41.47</td><td>60.00</td><td>-18.53</td><td>31.31</td><td>9.70</td><td>0.46</td><td>0.00</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark		MHz	dBuV	Line	Limit	Level	dB	loss	dB					dBuV	dB	dBuV		dB			1	0.159	28.82	55.52	-26.70	19.13	9.61	0.08	0.00	Average	2	0.159	44.76	65.52	-20.76	35.07	9.61	0.08	0.00	QP	3	0.204	27.20	53.45	-26.25	17.51	9.61	0.08	0.00	Average	4	0.204	39.30	63.45	-24.15	29.61	9.61	0.08	0.00	QP	5	0.276	27.51	50.94	-23.43	17.82	9.61	0.08	0.00	Average	6	0.276	33.13	60.94	-27.81	23.44	9.61	0.08	0.00	QP	7*	0.518	39.28	46.00	-6.72	29.57	9.61	0.10	0.00	Average	8	0.518	44.19	56.00	-11.81	34.48	9.61	0.10	0.00	QP	9	2.650	28.26	46.00	-17.74	18.43	9.63	0.20	0.00	Average	10	2.650	32.98	56.00	-23.02	23.15	9.63	0.20	0.00	QP	11	10.564	36.30	50.00	-13.70	26.14	9.70	0.46	0.00	Average	12	10.564	41.47	60.00	-18.53	31.31	9.70	0.46	0.00	QP
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																																
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