

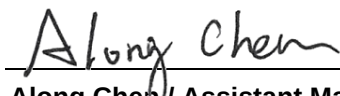
FCC Test Report

FCC ID : 2AWC2-AIRH203
Equipment : Kebbi Air S
(Please refer to section 1.1.1 for more details)
Model No. : AIR-H203
(Please refer to section 1.1.1 for more details)
Brand Name : NUWAROBOTICS
Applicant : NUWA ROBOTICS (HK) LIMITED TAIWAN
BRANCH
Address : 3F., No. 102, Dunhua N. Rd., Songshan Dist.,
Taipei City , Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.407
Received Date : Apr. 07, 2021
Tested Date : May 04 ~ May 14, 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

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	9
1.3	Test Setup Chart	9
1.4	The Equipment List	10
1.5	Test Standards	12
1.6	Reference Guidance	12
1.7	Deviation from Test Standard and Measurement Procedure.....	12
1.8	Measurement Uncertainty	12
2	TEST CONFIGURATION.....	13
2.1	Testing Facility	13
2.2	The Worst Test Modes and Channel Details	14
3	TRANSMITTER TEST RESULTS	15
3.1	Emission Bandwidth	15
3.2	Conducted Output Power	16
3.3	Power Spectral Density	17
3.4	Unwanted Emissions.....	19
3.5	Frequency Stability.....	22
3.6	AC Power Line Conducted Emissions	23
4	TEST LABORATORY INFORMATION	24

Appendix A. Emission Bandwidth

Appendix B. Conducted Output Power

Appendix C. Power Spectral Density

Appendix D. Unwanted Emissions

Appendix E. Frequency Stability

Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR240701AN	Rev. 01	Initial issue	Jun. 06, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 14.594MHz 35.53 (Margin -14.47dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 52.95 (Margin -1.05dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: 5150~5250MHz: 21.53 5725~5850MHz: 22.38	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
NUWAROBOTICS	AIR-H203	Kebbi Air S	Outer appearance: white
NUWAROBOTICS	AIR-H204	Robot Creator DX	Outer appearance: black
✦ All models are electrically identical, different model names are for marketing purpose. ✦ The above models, model AIR-H203 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]	1	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	1	MCS 0-7
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	1	MCS 0-7
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	1	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	1	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	1	MCS 0-9
Note 1: OFDM BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.					

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
				2400~2483.5	5150~5250	5725~5850
1	NUWA	PIFA	N/A	2.4	-1.4	1.3

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	DC 3.7V from battery DC 5V~3A/10V~2A/12V~1.67A from adapter DC 5V~3A/9V~2A/12V~1.5A from adapter
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1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: JIANGSU CHENYANG Model: MC-201 I/P: 100-240Vac, 50/60Hz, 0.7A Max O/P: 5V=3A, 15.0W / 10.0V=2.0A, 20W / 12V=1.67A, 20W
2	AC adapter	Brand: Jiangxi Jian Aohai Model: A138A-120150U-UK3 I/P: 100-240Vac, 50/60Hz, 0.5A Max O/P: 5V=3A, 15.0W / 9.0V=2.0A, 18W / 12V=1.5A, 18W
3	AC adapter	Brand: SHENZHEN KEYU Model: KA1803A-US I/P: 100-240Vac, 50/60Hz, 0.5A Max O/P: 5V=3A / 9.0V=2.0A / 12V=1.5A
4	AC adapter	Brand: JIANGSU CHENYANG Model: MC-203 I/P: 100-240Vac, 50/60Hz, 0.7A Max O/P: 5V=3A, 15.0W / 10V=2.0A, 20W / 12V=1.67A, 20W
5	Li-ion Battery	Brand: Shenzhen GUANGWEI Electronic Technology Co., Ltd Model: NB2 Rating: 3.7Vdc, 9100mA, 33.67Wh
6	USB charger Cable	1.2m non-shielded without core

1.1.6 Channel List

802.11a / n HT20 / ac VHT20		802.11n HT40 / ac VHT40	
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	
153	5765	42	5210
157	5785	155	5775
161	5805	-	-
165	5825	-	-

1.1.7 Test Tool and Duty Cycle

Test Tool	Qualcomm Radio Control Tool, V4.0.00185.0		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	100.00%	0.00
	VHT20	100.00%	0.00
	VHT40	99.90%	0.00
	VHT80	97.76%	0.10

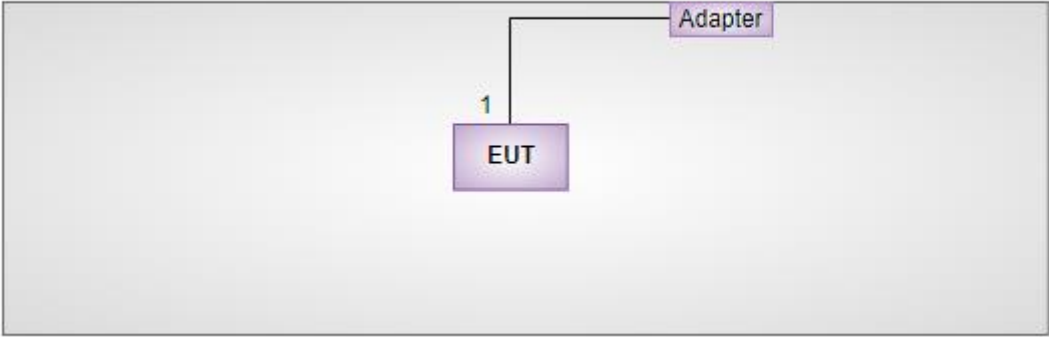
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	20
11a	5200	21
11a	5240	21
11a	5745	21
11a	5785	21
11a	5825	21
VHT20	5180	20
VHT20	5200	21
VHT20	5240	21
VHT20	5745	21
VHT20	5785	21
VHT20	5825	21
VHT40	5190	15
VHT40	5230	18
VHT40	5755	21
VHT40	5795	21
VHT80	5210	15
VHT80	5775	18.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---

1.3 Test Setup Chart

Test Setup Diagram	
	
No.	Signal cable / Length (m)
1	USB charger cable, 1.2m non-shielded.

Note: The support notebook was disconnected from EUT and removed from test table when EUT is set to transmit/receive continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	May 12, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	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 below 1GHz				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	May 04, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 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
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 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
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	May 06 ~ May 09, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
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	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-80 00	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 13 ~ May 14, 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
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 08, 2021	Nov. 07, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.20	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

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 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
Conducted Emissions	11a	5200	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5200	6 Mbps	---
RF Output Power	11a	5180 / 5200 / 5240	6 Mbps	---
Radiated Emissions >1GHz	VHT20	5180 / 5200 / 5240	MCS 0	
Emission Bandwidth	VHT40	5190 / 5230	MCS 0	
Peak Power Spectral Density	VHT80	5210	MCS 0	
Frequency Stability	Un-modulation	5200	---	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT40	5755	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5755	MCS 0	---
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	---
Emission Bandwidth	VHT20	5745 / 5785 / 5825	MCS 0	
6dB bandwidth	VHT40	5755 / 5795	MCS 0	
Peak Power Spectral Density	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
NOTE: 1. Four adapters (Model: MC-201, A138A-120150U-UK3, KA1803A-US and MC-203) had been covered during the pretest, and found that Model: A138A-120150U-UK was worst case of AC power line conducted emission and Model: MC-203 was worst case of Radiated emission. 2. Test configurations are listed as below: 1) Configuration 1: Model:MC-201 adapter 2) Configuration 2: Model:A138A-120150U-UK3 adapter				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

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

3.1.2 Test Procedures

26dB Bandwidth

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

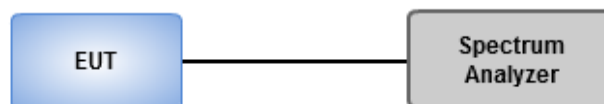
Occupied Bandwidth

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

6dB Bandwidth

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

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23~24°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	23~24°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

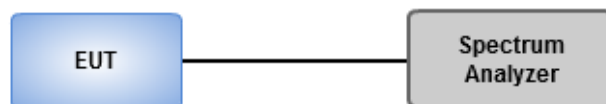
Duty cycle $\geq 98\%$

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	23~24°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

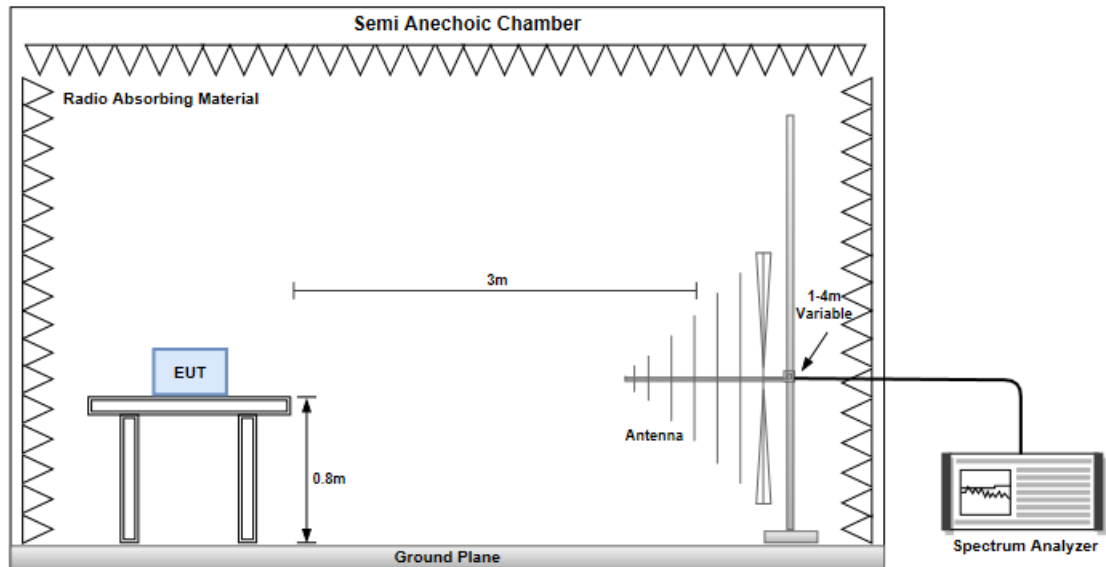
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

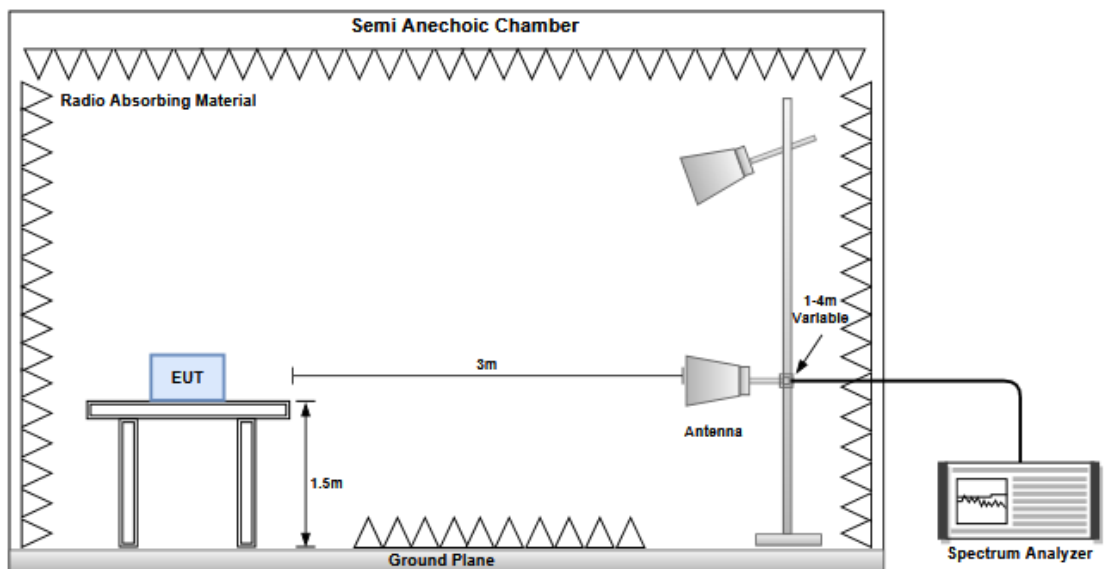
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

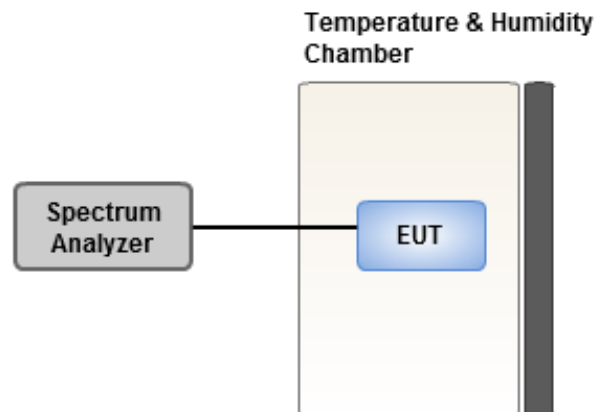
3.5.1 Limit of Frequency Stability

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	23~24°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

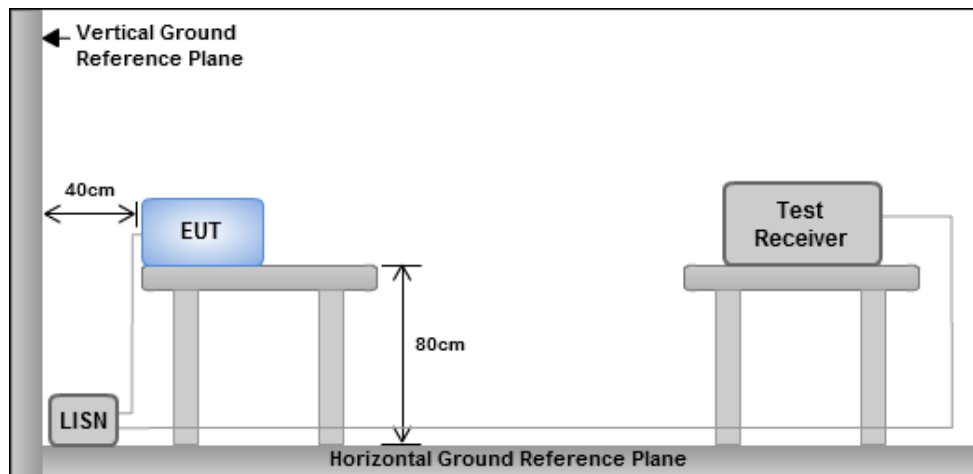
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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)_1TX	38.58M	18.681M	18M7D1D	36.42M	18.051M
802.11ac VHT20_Nss1,(MCS0)_1TX	37.56M	19.28M	19M3D1D	33.54M	18.711M
802.11ac VHT40_Nss1,(MCS0)_1TX	71.28M	37.841M	37M8D1D	43.26M	36.882M
802.11ac VHT80_Nss1,(MCS0)_1TX	84.24M	75.082M	75M1D1D	84.24M	75.082M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.35M	19.07M	19M1D1D	16.35M	18.201M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.55M	19.58M	19M6D1D	17.28M	18.771M
802.11ac VHT40_Nss1,(MCS0)_1TX	35.34M	47.736M	47M7D1D	35.28M	46.477M
802.11ac VHT80_Nss1,(MCS0)_1TX	72.48M	77.601M	77M6D1D	72.48M	77.601M

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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	36.66M	18.051M
5200MHz	Pass	Inf	36.42M	18.231M
5240MHz	Pass	Inf	38.58M	18.681M
5745MHz	Pass	500k	16.35M	18.201M
5785MHz	Pass	500k	16.35M	19.07M
5825MHz	Pass	500k	16.35M	18.381M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	33.54M	18.711M
5200MHz	Pass	Inf	37.47M	19.19M
5240MHz	Pass	Inf	37.56M	19.28M
5745MHz	Pass	500k	17.55M	18.771M
5785MHz	Pass	500k	17.55M	19.58M
5825MHz	Pass	500k	17.28M	19.13M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	43.26M	36.882M
5230MHz	Pass	Inf	71.28M	37.841M
5755MHz	Pass	500k	35.34M	46.477M
5795MHz	Pass	500k	35.28M	47.736M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	84.24M	75.082M
5775MHz	Pass	500k	72.48M	77.601M

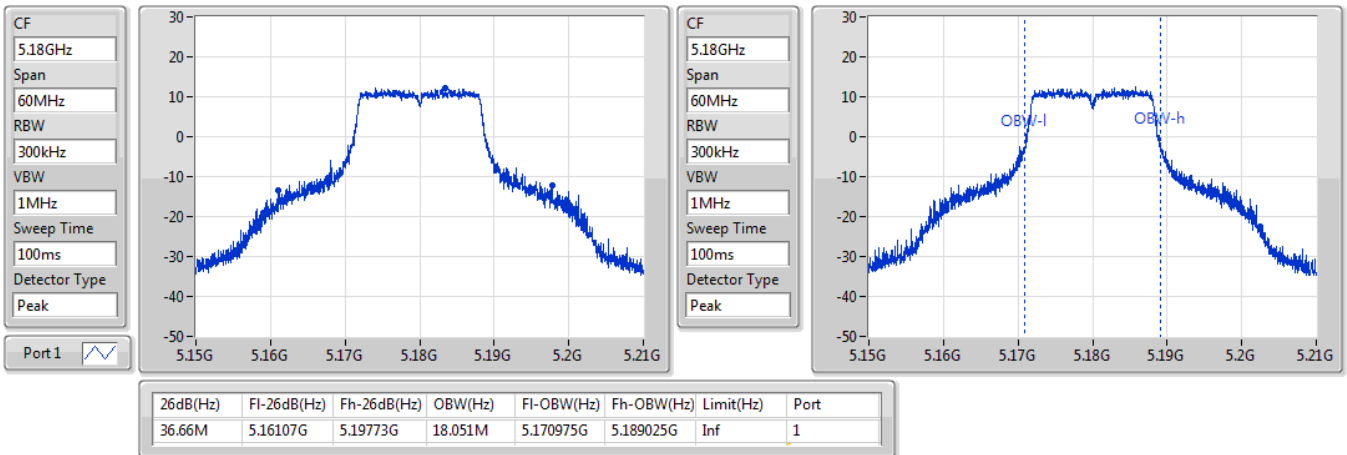
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_1TX

EBW

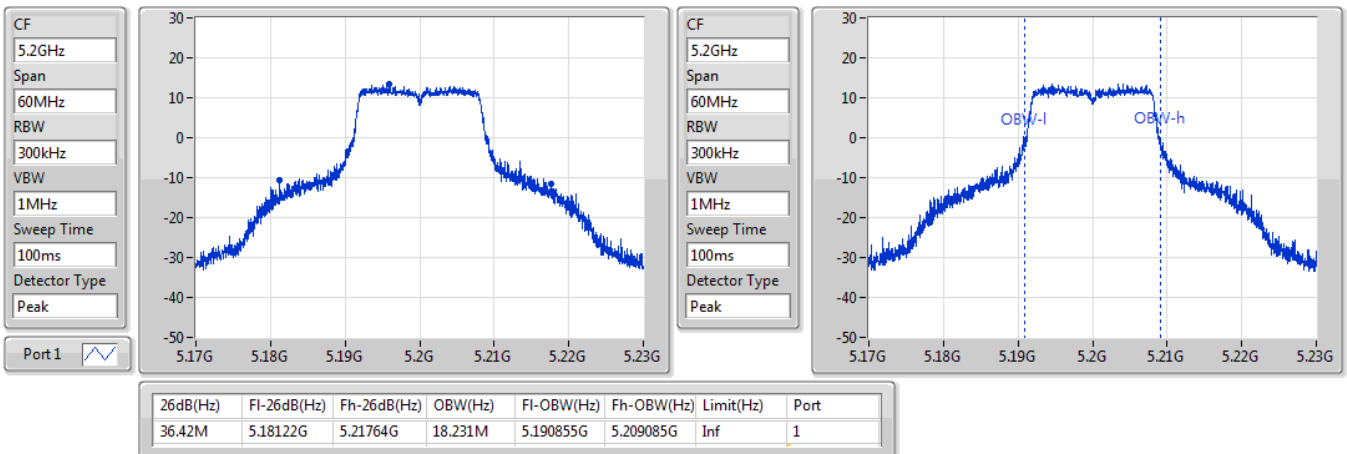
5180MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

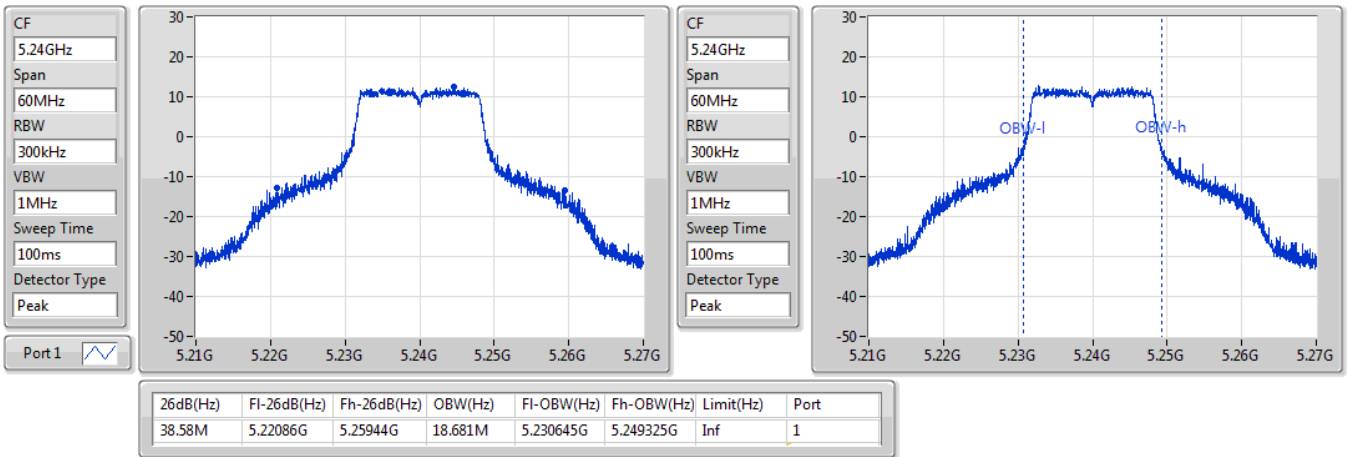
5200MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

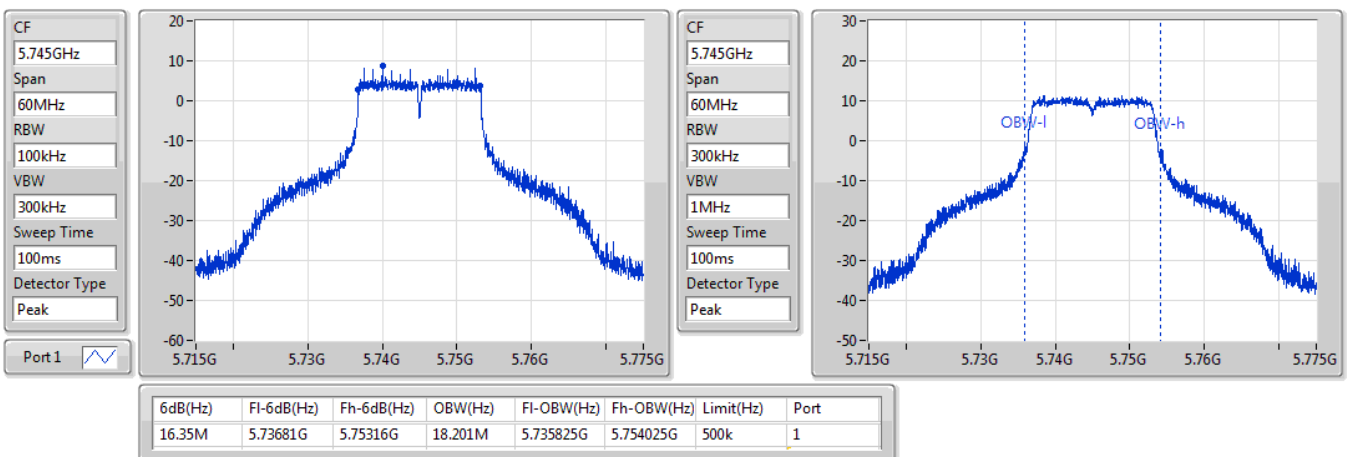
5240MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

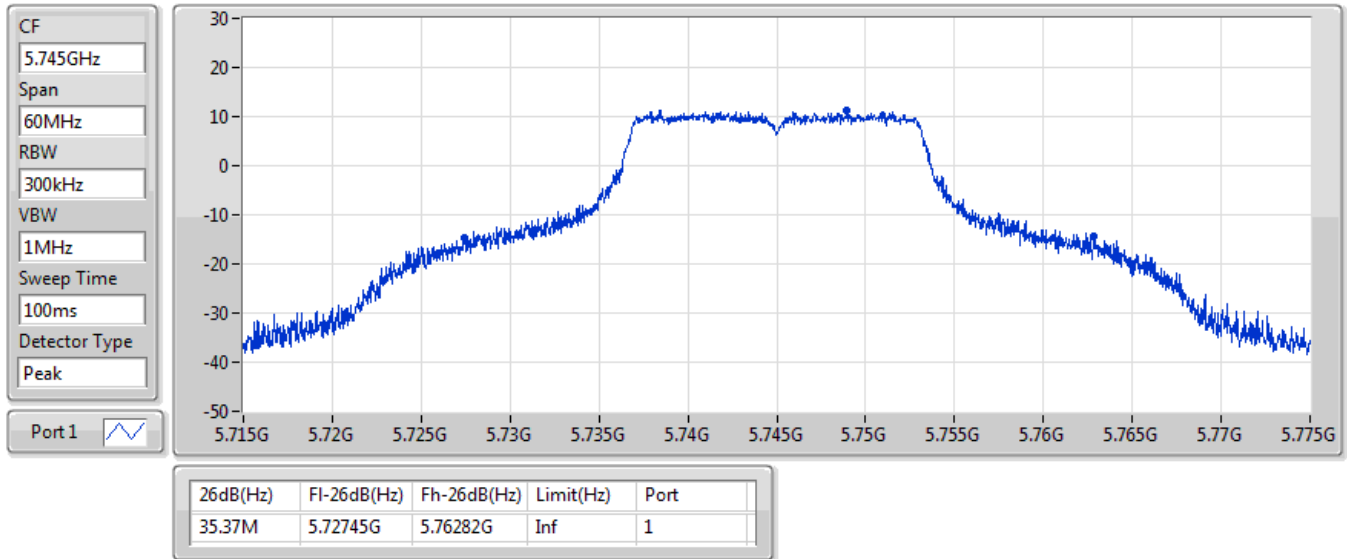
5745MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

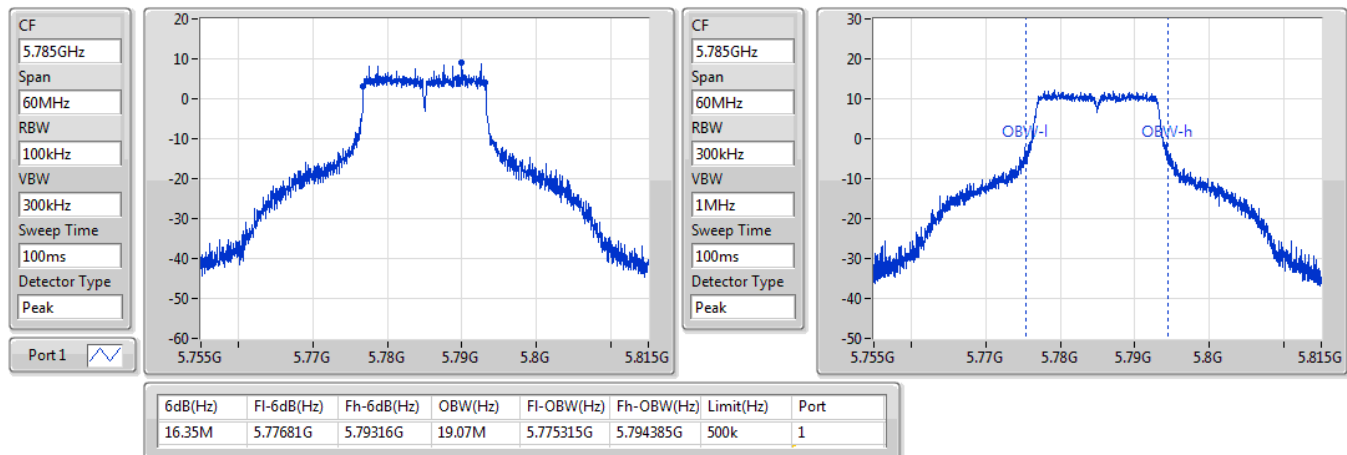
5745MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

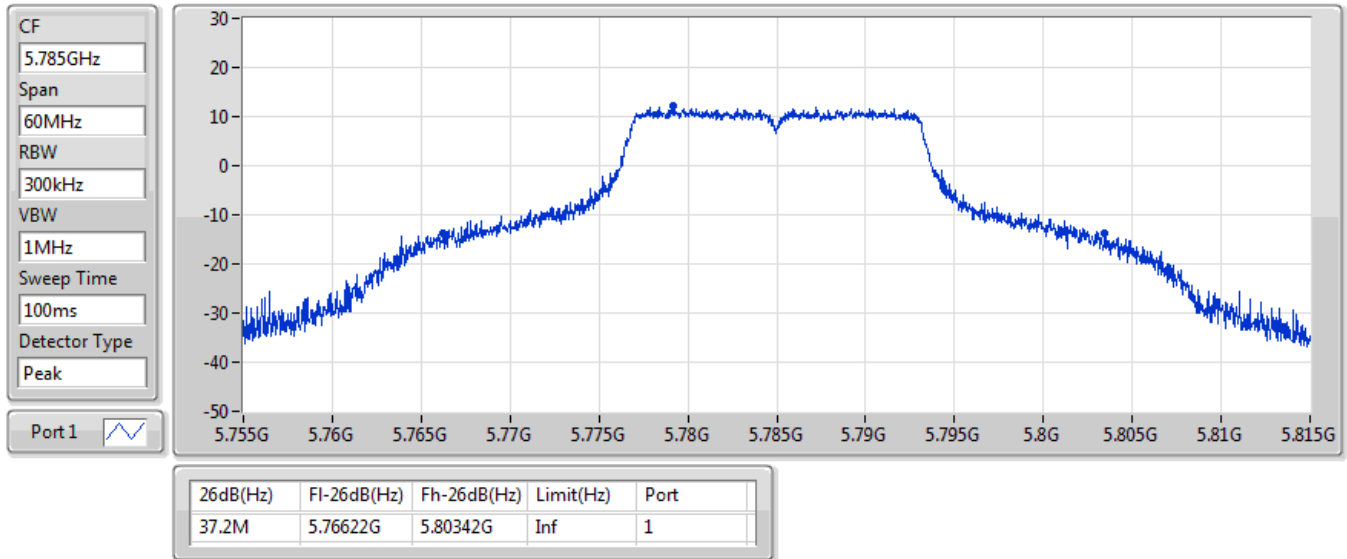
5785MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

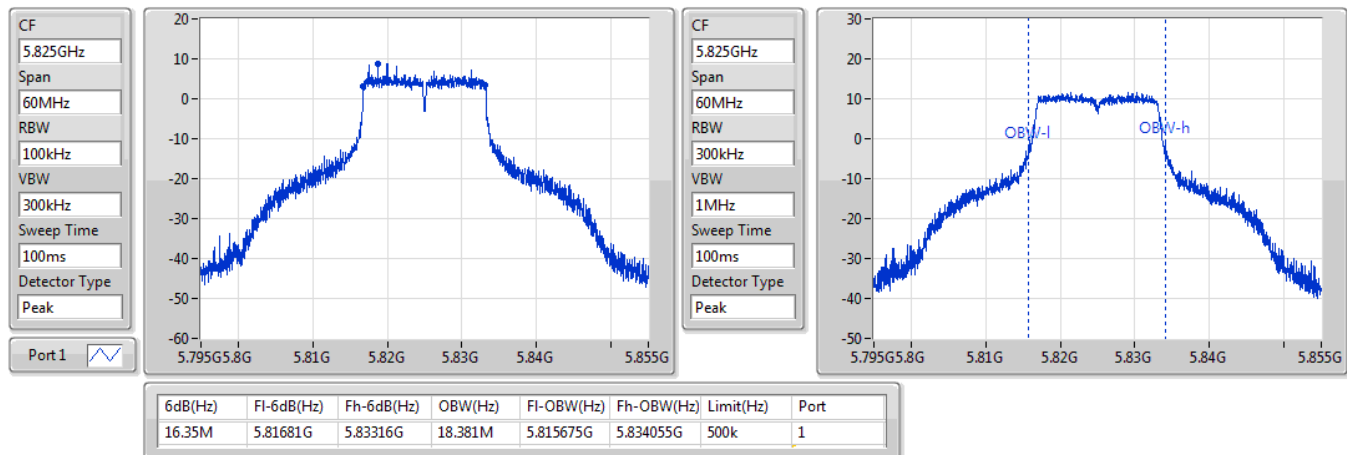
5785MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

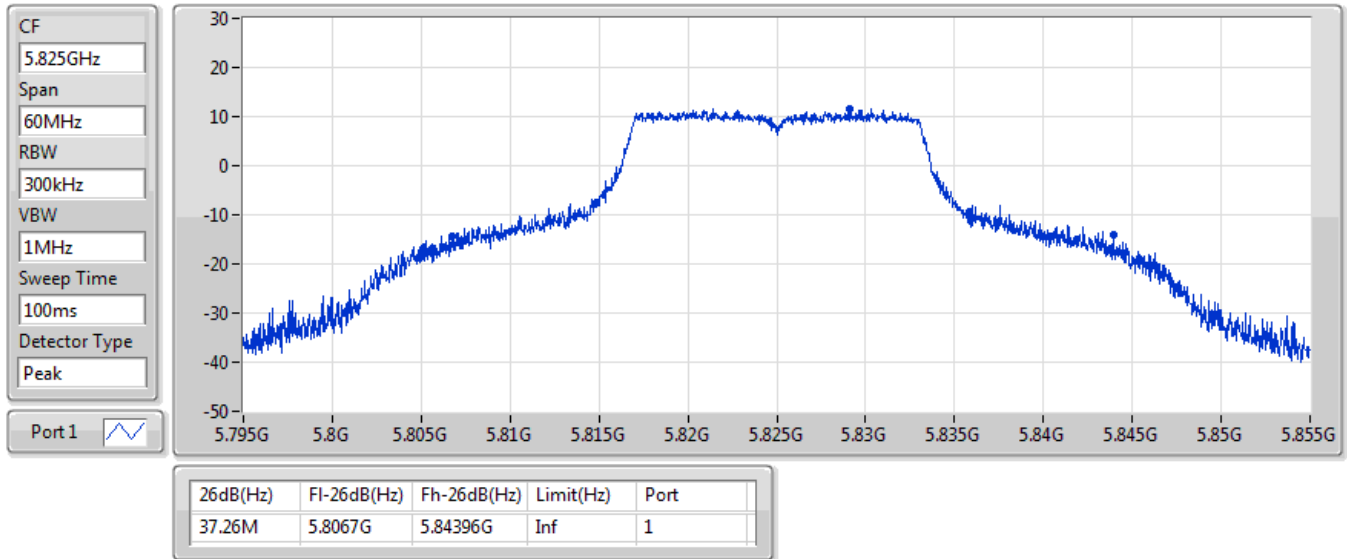
5825MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

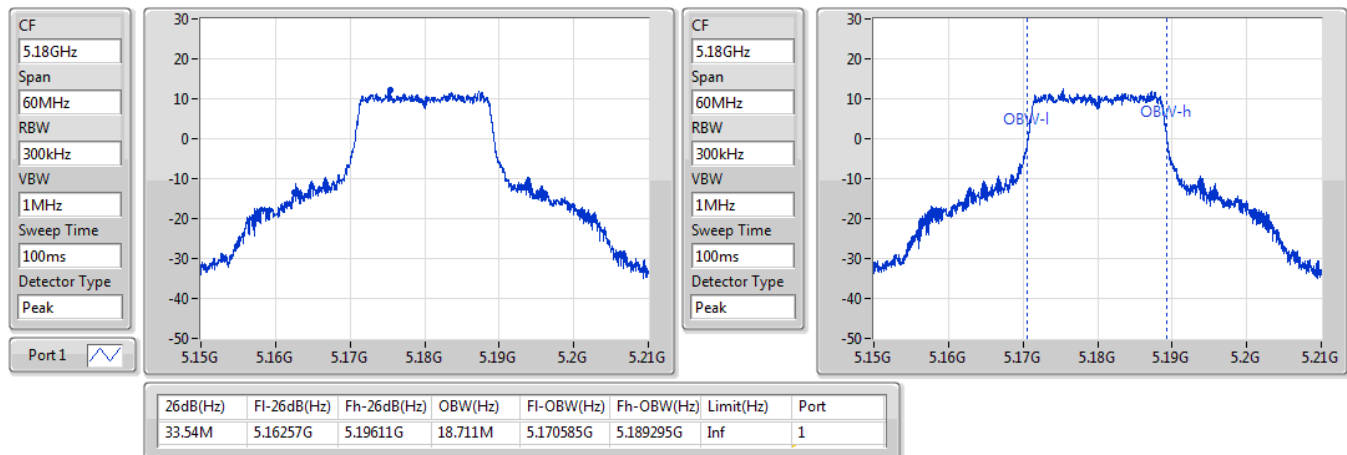
5825MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

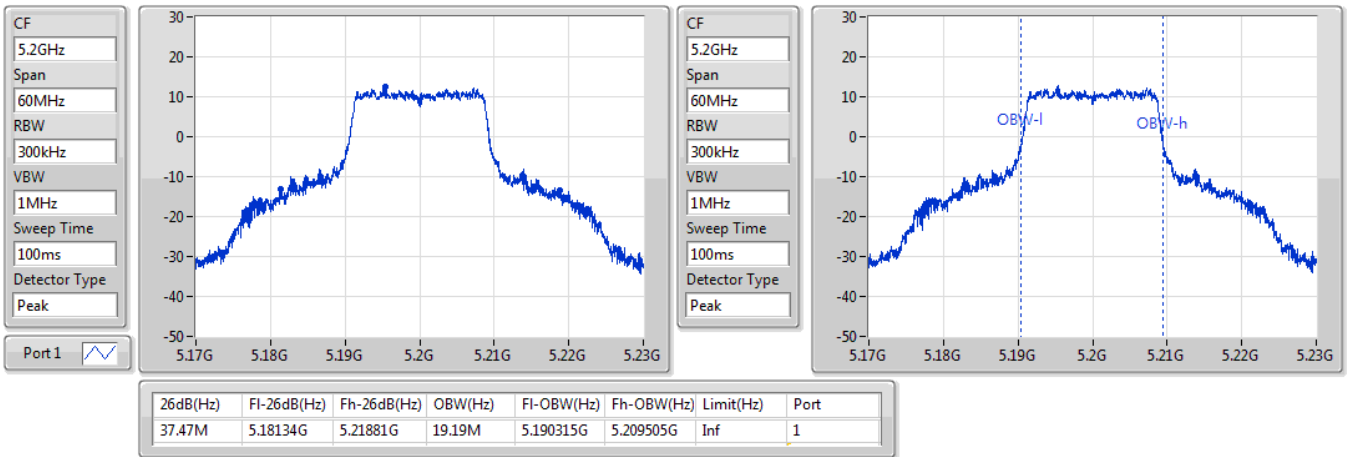
5180MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

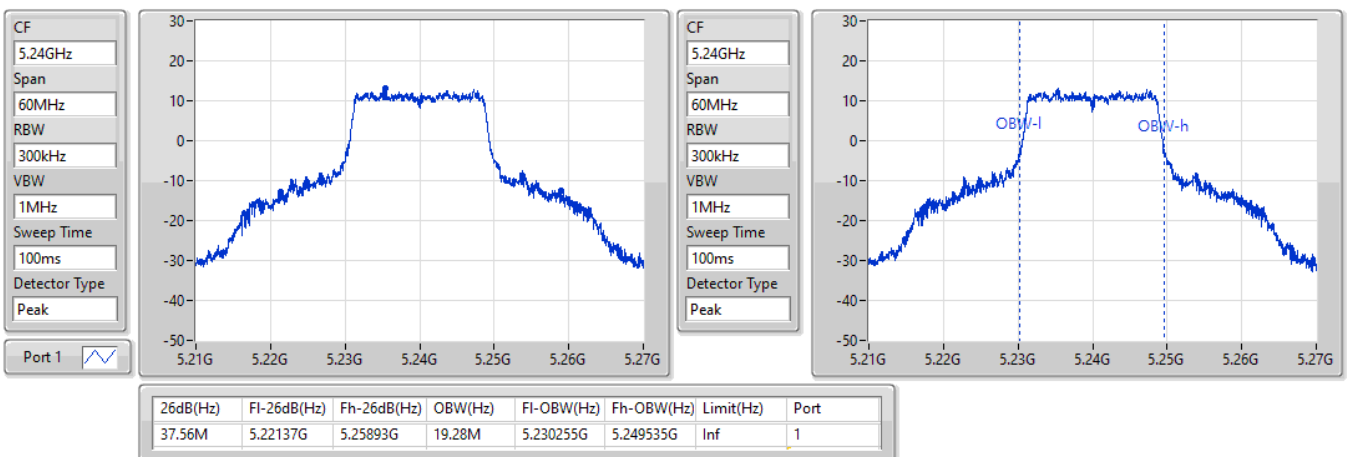
5200MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

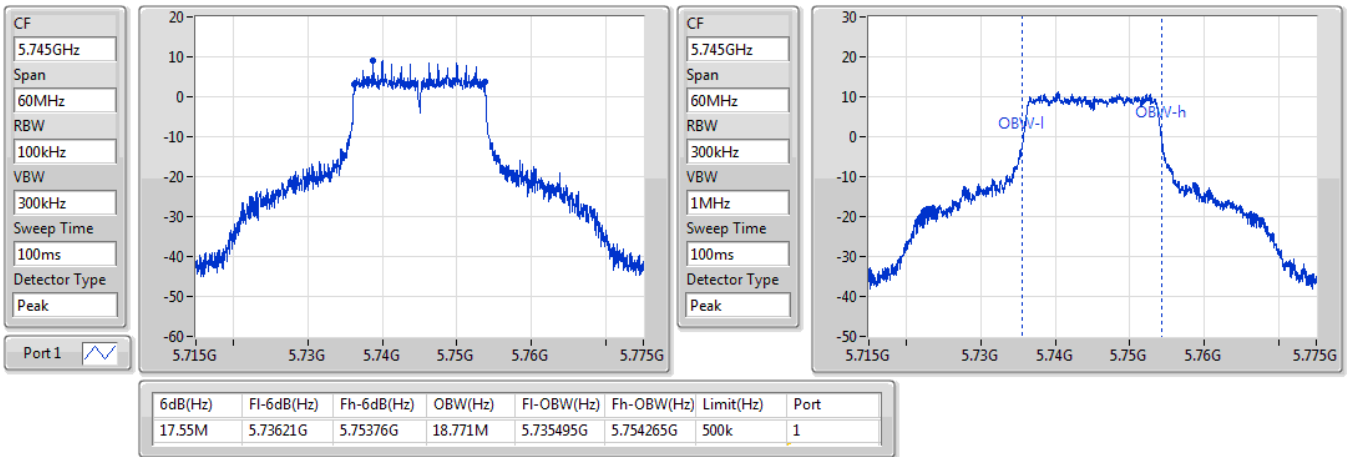
5240MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

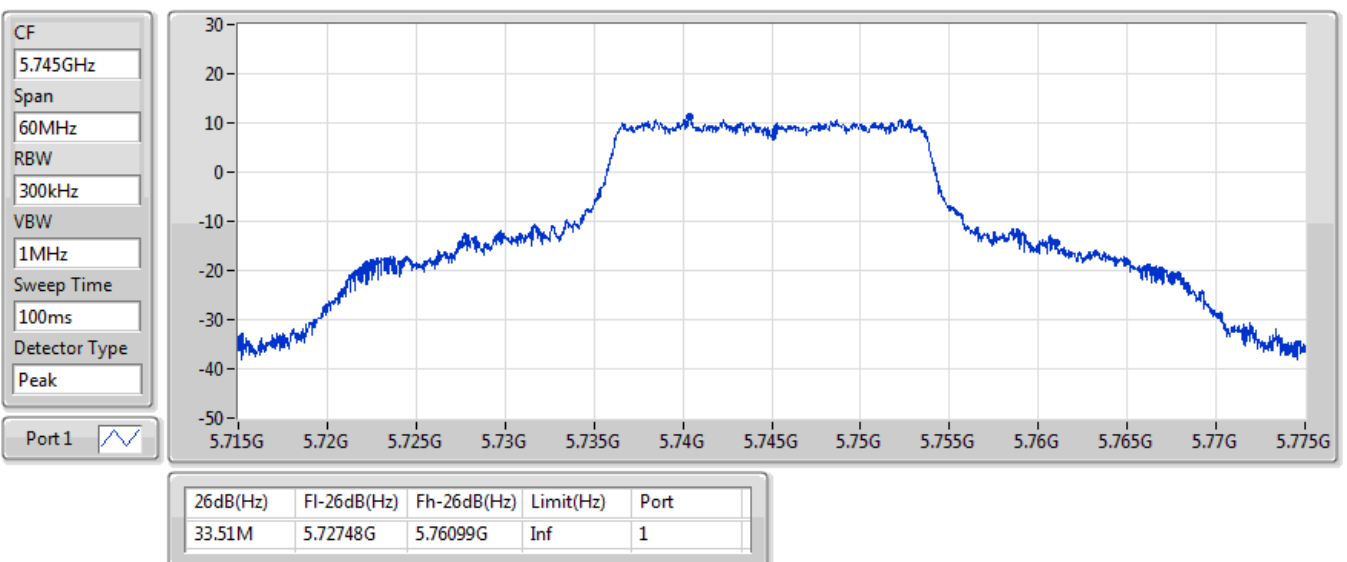
5745MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

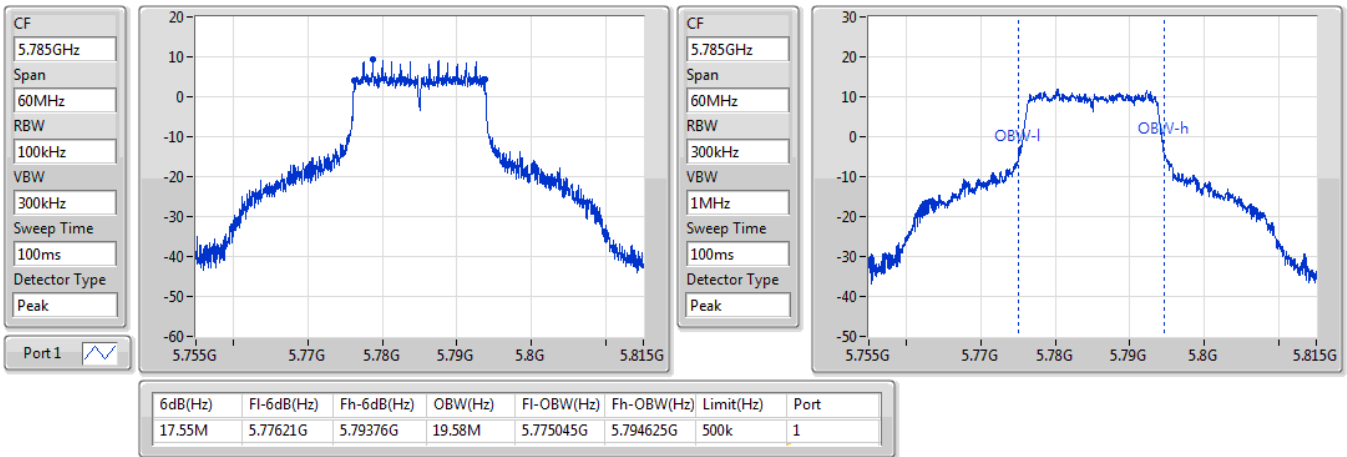
5745MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

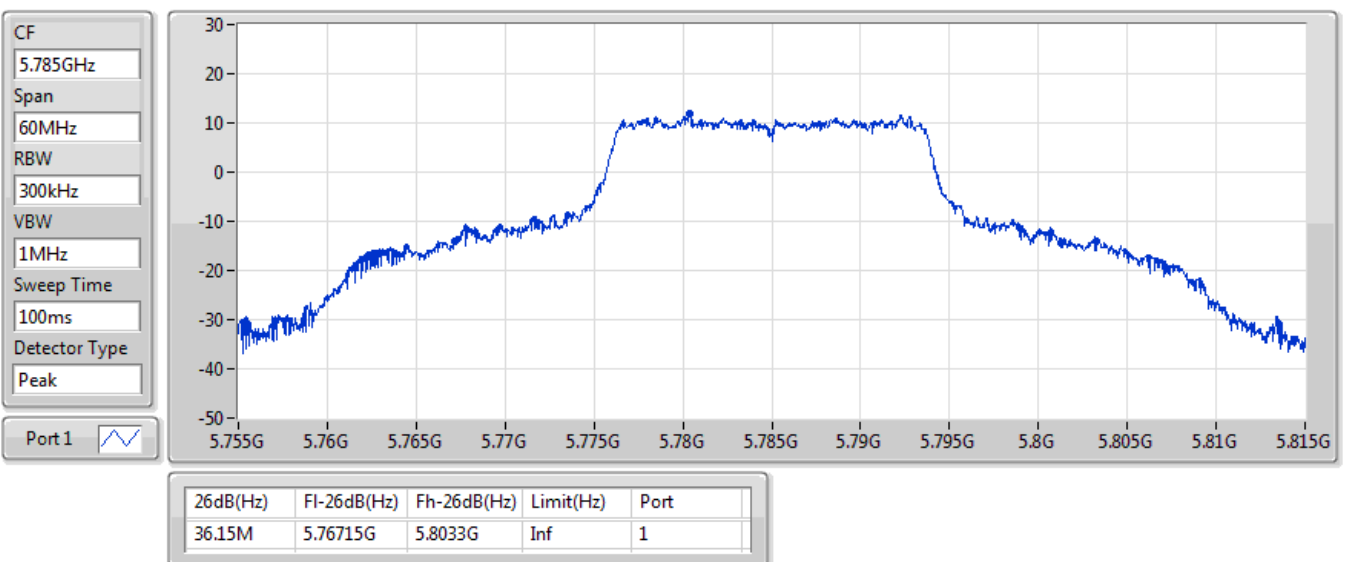
5785MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

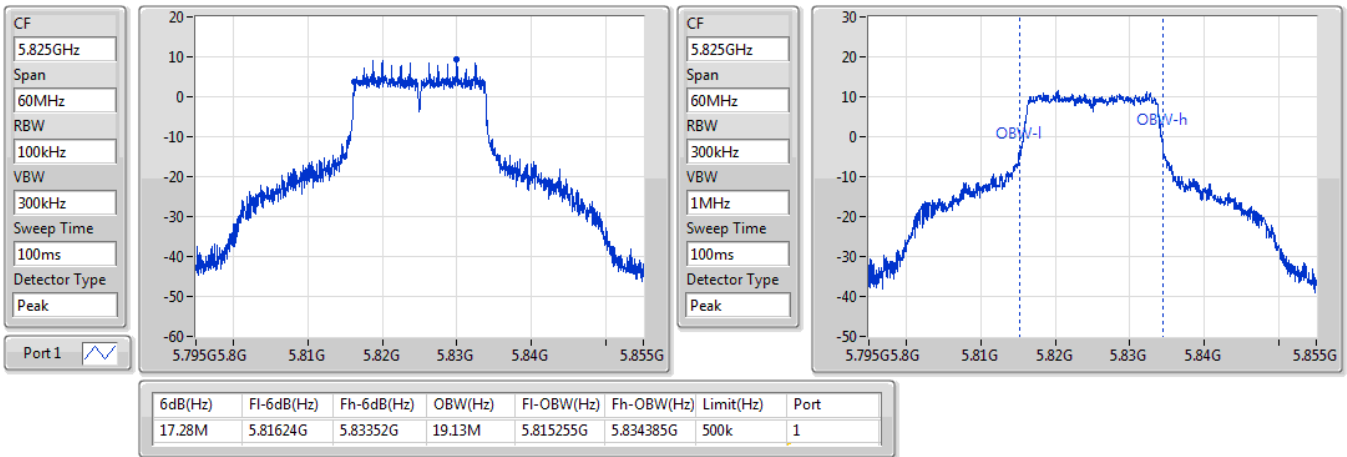
5785MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

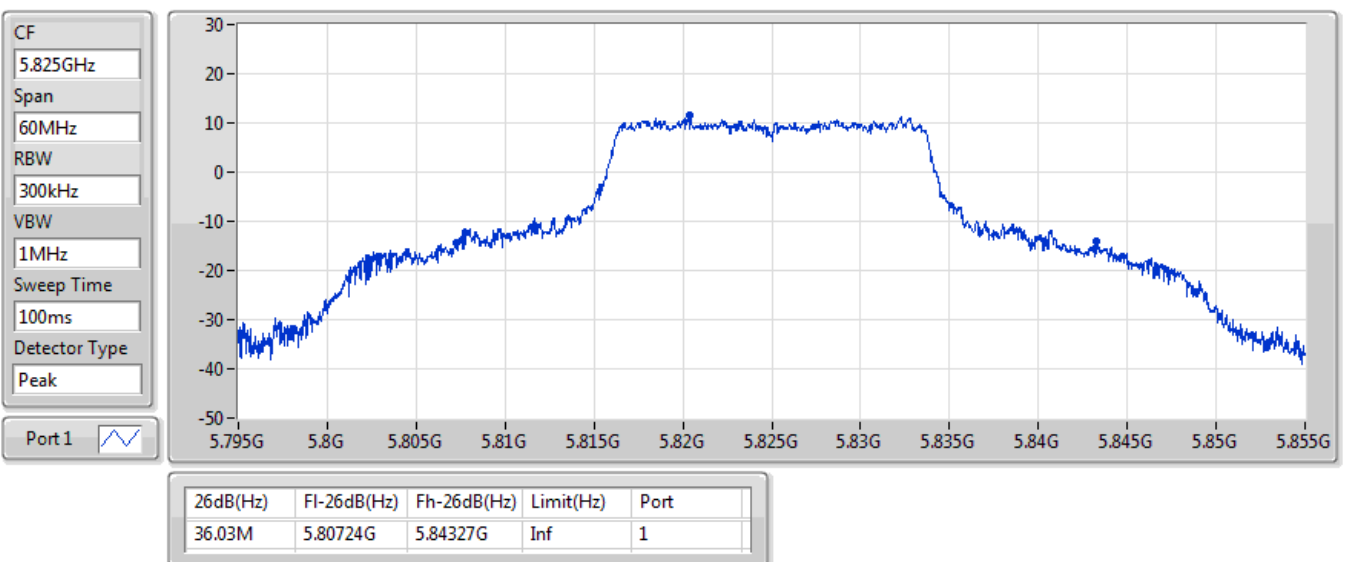
5825MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

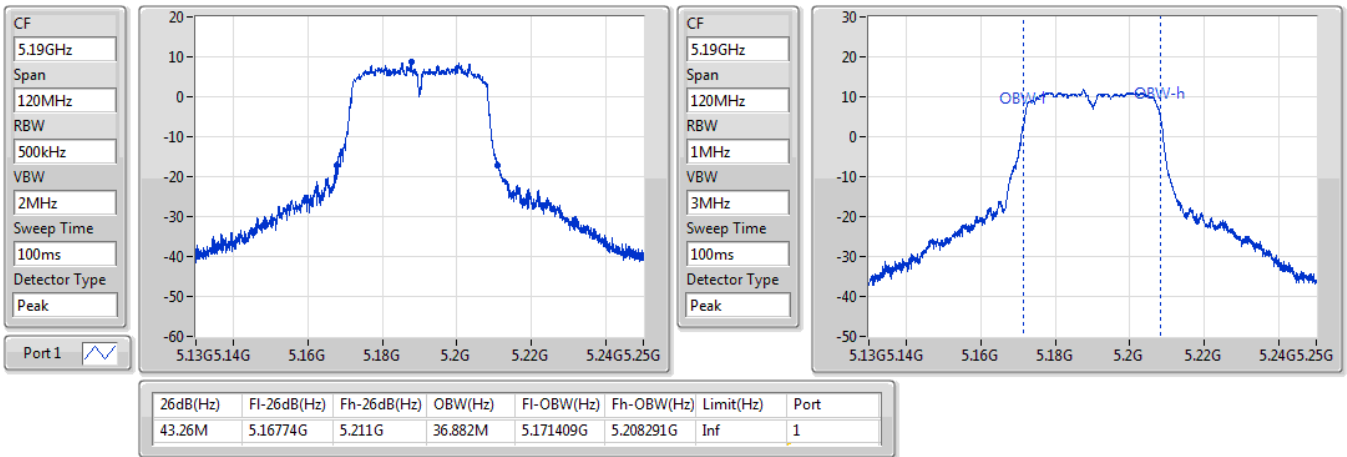
5825MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

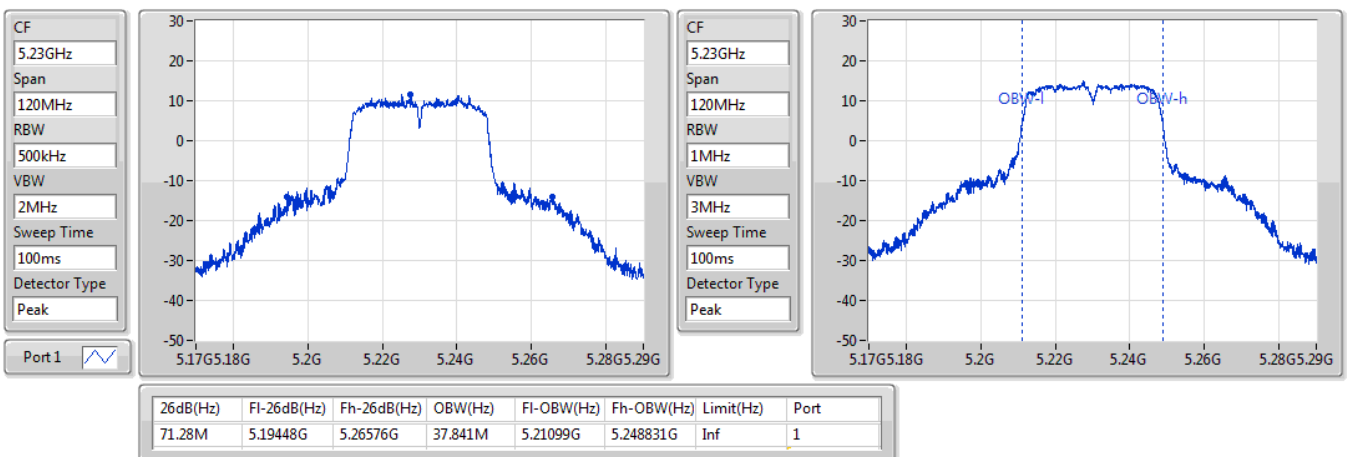
5190MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

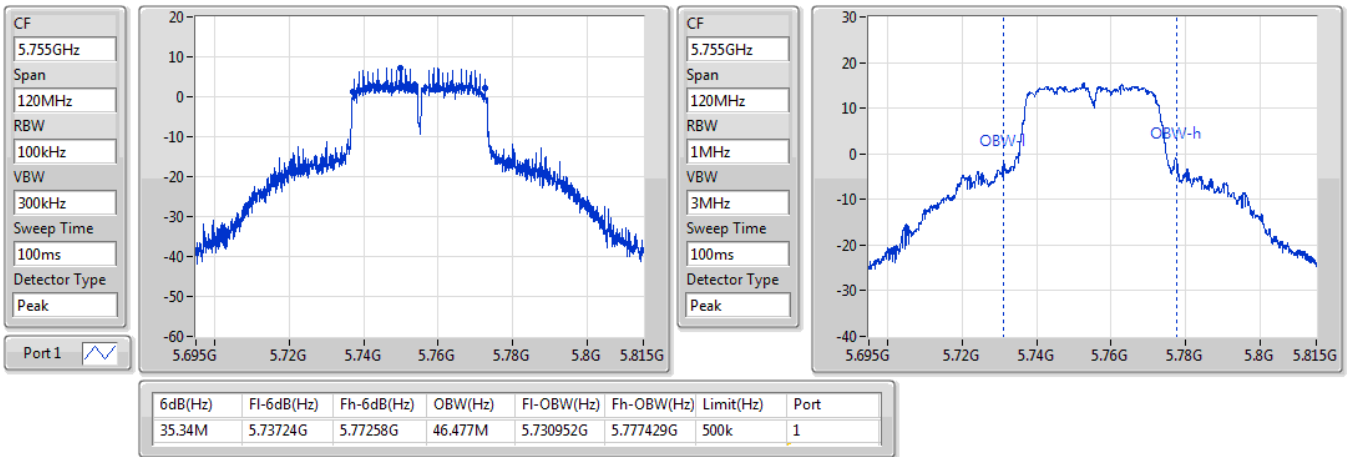
5230MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

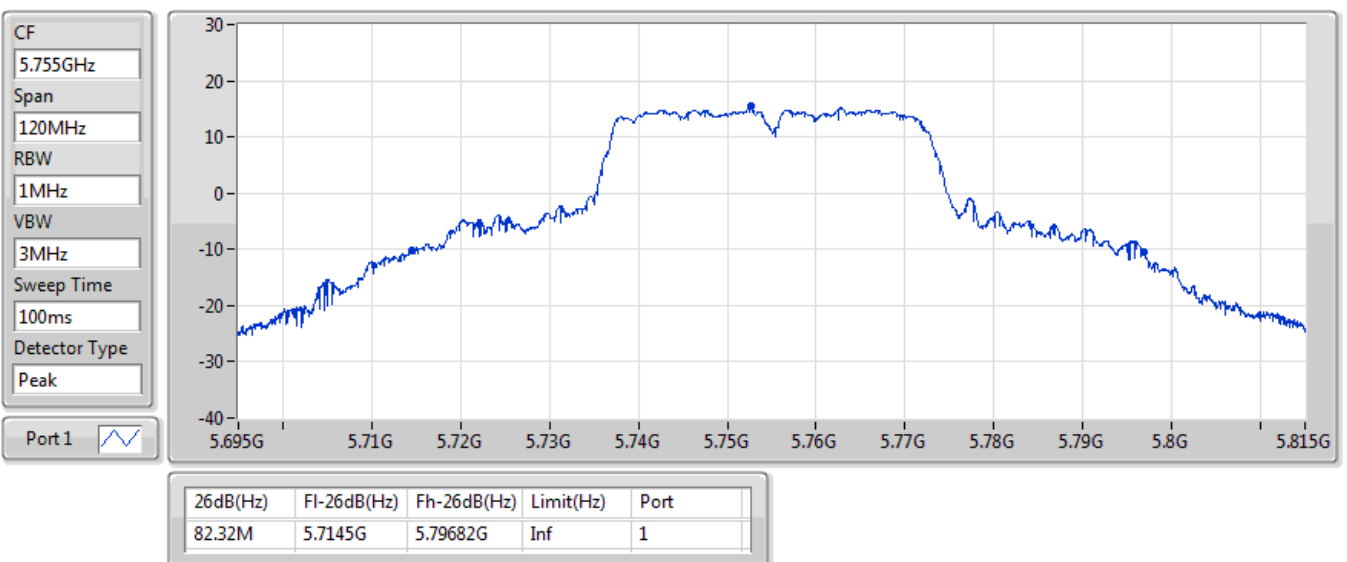
5755MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

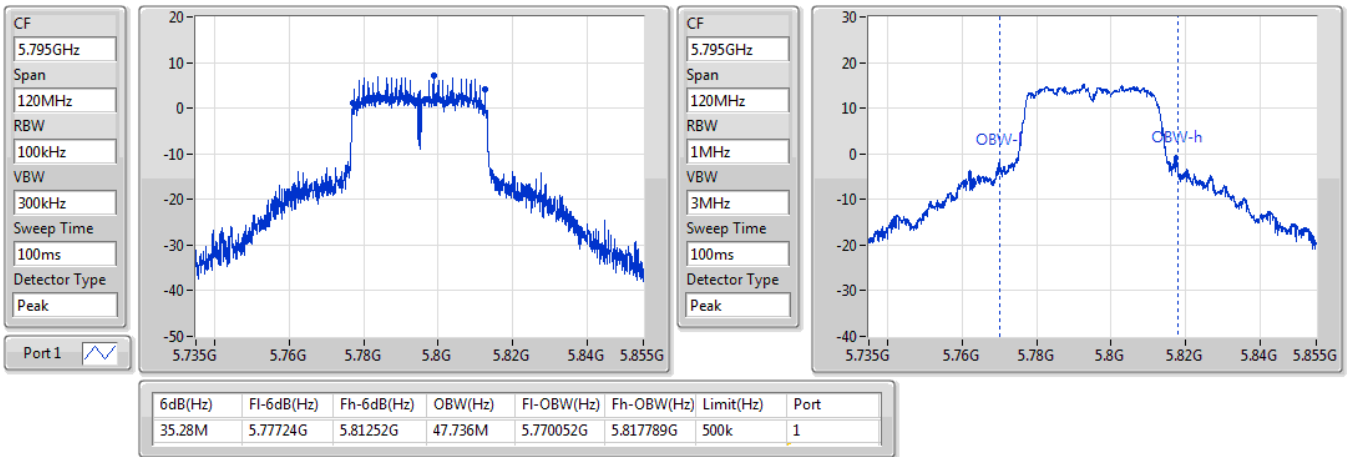
5755MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

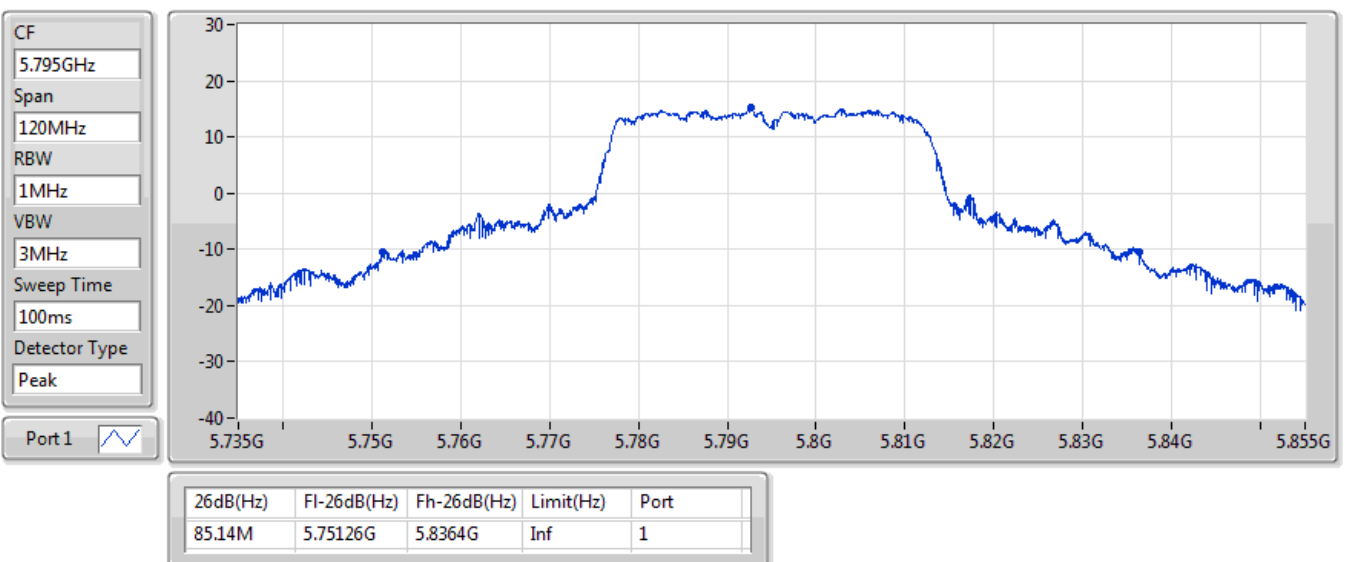
5795MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

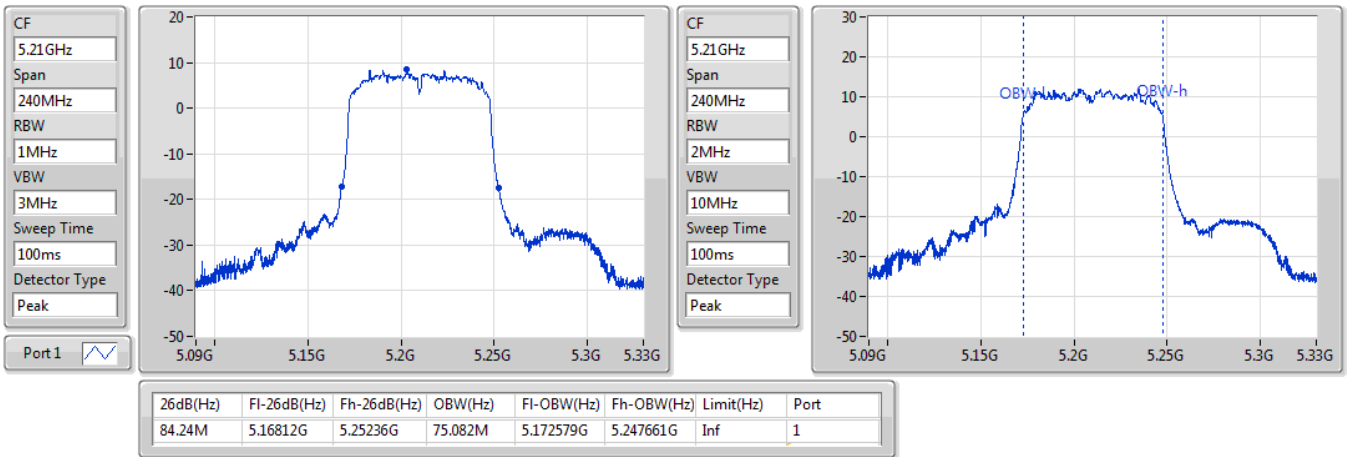
5795MHz



802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

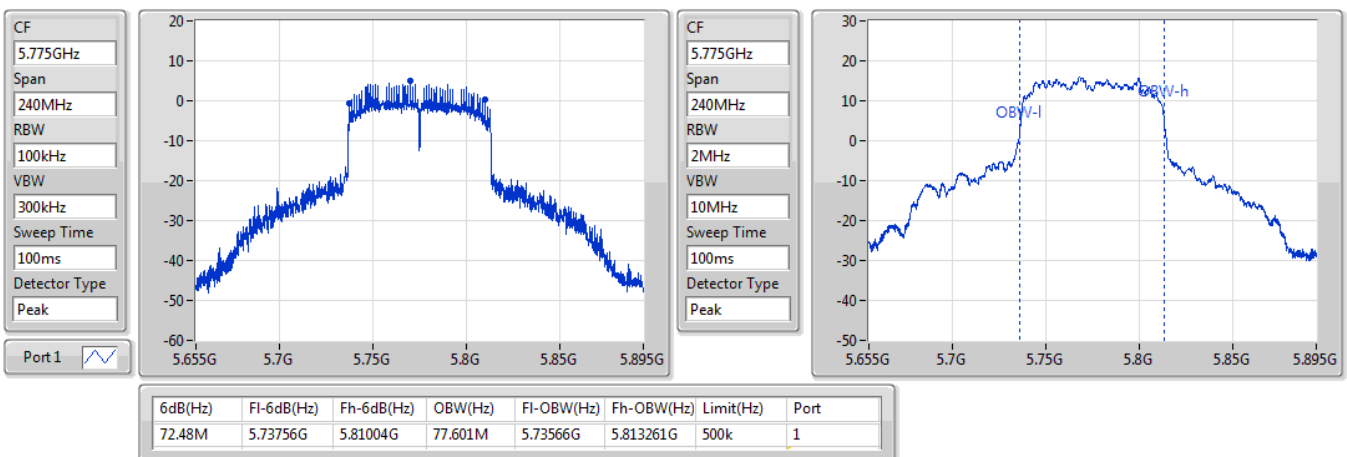
5210MHz



802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

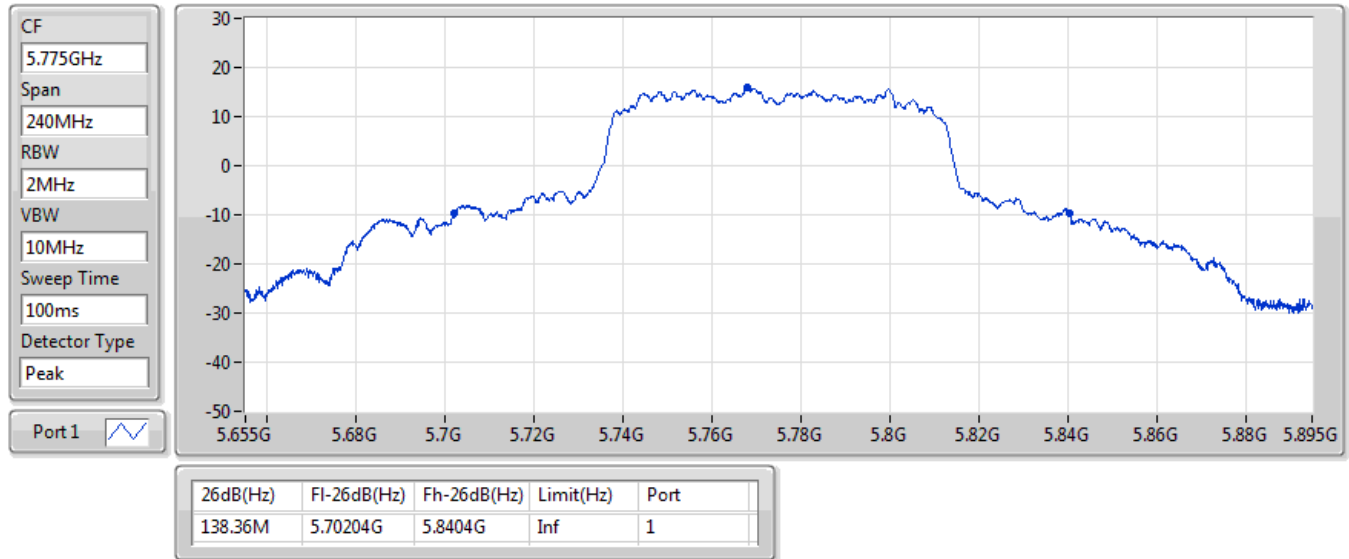
5775MHz



802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5775MHz



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.46	0.13996	20.06	0.10139
802.11ac VHT20_Nss1,(MCS0)_1TX	21.53	0.14223	20.13	0.10304
802.11ac VHT40_Nss1,(MCS0)_1TX	20.93	0.12388	19.53	0.08974
802.11ac VHT80_Nss1,(MCS0)_1TX	17.56	0.05702	16.16	0.04130
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.06	0.12764	22.36	0.17219
802.11ac VHT20_Nss1,(MCS0)_1TX	20.83	0.12106	22.13	0.16331
802.11ac VHT40_Nss1,(MCS0)_1TX	22.38	0.17298	23.68	0.23335
802.11ac VHT80_Nss1,(MCS0)_1TX	21.25	0.13335	22.55	0.17989

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	-1.40	21.08	21.08	24.00	19.68	30.00
5200MHz	Pass	-1.40	21.46	21.46	24.00	20.06	30.00
5240MHz	Pass	-1.40	21.45	21.45	24.00	20.05	30.00
5745MHz	Pass	1.30	20.55	20.55	30.00	21.85	36.00
5785MHz	Pass	1.30	21.06	21.06	30.00	22.36	36.00
5825MHz	Pass	1.30	20.72	20.72	30.00	22.02	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	-1.40	21.14	21.14	24.00	19.74	30.00
5200MHz	Pass	-1.40	21.53	21.53	24.00	20.13	30.00
5240MHz	Pass	-1.40	21.49	21.49	24.00	20.09	30.00
5745MHz	Pass	1.30	20.62	20.62	30.00	21.92	36.00
5785MHz	Pass	1.30	20.83	20.83	30.00	22.13	36.00
5825MHz	Pass	1.30	20.76	20.76	30.00	22.06	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	-1.40	17.96	17.96	24.00	16.56	30.00
5230MHz	Pass	-1.40	20.93	20.93	24.00	19.53	30.00
5755MHz	Pass	1.30	22.38	22.38	30.00	23.68	36.00
5795MHz	Pass	1.30	21.93	21.93	30.00	23.23	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	-1.40	17.56	17.56	24.00	16.16	30.00
5775MHz	Pass	1.30	21.25	21.25	30.00	22.55	36.00

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

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	8.44	7.04
802.11ac VHT20_Nss1,(MCS0)_1TX	8.56	7.16
802.11ac VHT40_Nss1,(MCS0)_1TX	4.41	3.01
802.11ac VHT80_Nss1,(MCS0)_1TX	-1.83	-3.23
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	6.20	7.50
802.11ac VHT20_Nss1,(MCS0)_1TX	5.73	7.03
802.11ac VHT40_Nss1,(MCS0)_1TX	3.76	5.06
802.11ac VHT80_Nss1,(MCS0)_1TX	0.58	1.88

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

Result

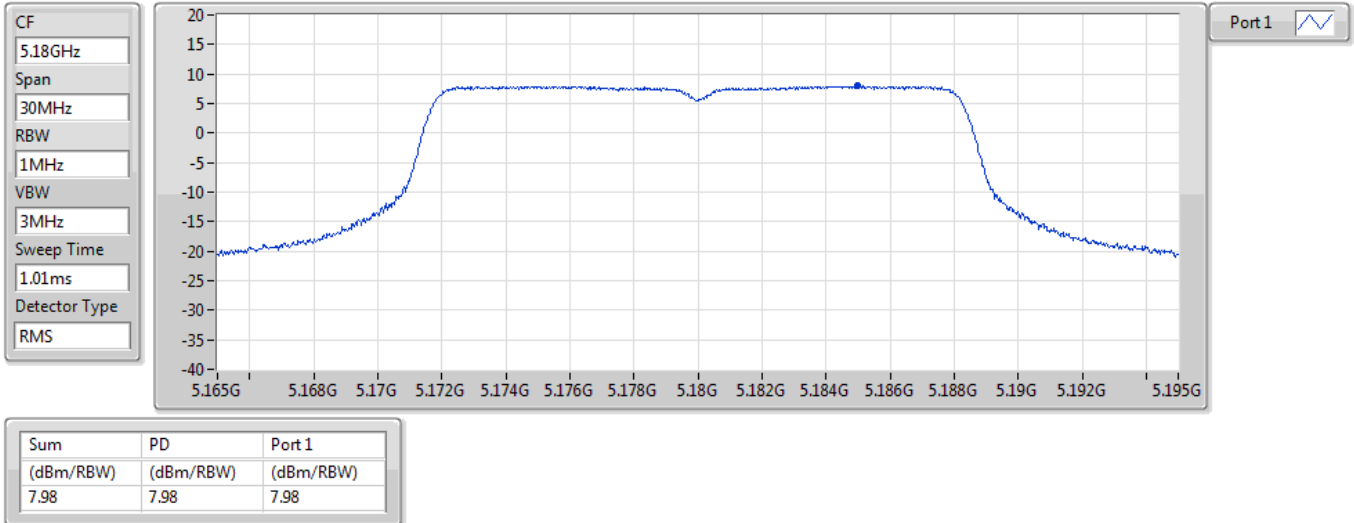
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	-1.40	7.98	7.98	11.00	6.58	17.00
5200MHz	Pass	-1.40	8.44	8.44	11.00	7.04	17.00
5240MHz	Pass	-1.40	8.24	8.24	11.00	6.84	17.00
5745MHz	Pass	1.30	5.44	5.44	30.00	6.74	36.00
5785MHz	Pass	1.30	6.20	6.20	30.00	7.50	36.00
5825MHz	Pass	1.30	5.81	5.81	30.00	7.11	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	-1.40	7.61	7.61	11.00	6.21	17.00
5200MHz	Pass	-1.40	8.03	8.03	11.00	6.63	17.00
5240MHz	Pass	-1.40	8.56	8.56	11.00	7.16	17.00
5745MHz	Pass	1.30	5.22	5.22	30.00	6.52	36.00
5785MHz	Pass	1.30	5.73	5.73	30.00	7.03	36.00
5825MHz	Pass	1.30	5.35	5.35	30.00	6.65	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	-1.40	1.52	1.52	11.00	0.12	17.00
5230MHz	Pass	-1.40	4.41	4.41	11.00	3.01	17.00
5755MHz	Pass	1.30	3.76	3.76	30.00	5.06	36.00
5795MHz	Pass	1.30	3.73	3.73	30.00	5.03	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	-1.40	-1.83	-1.83	11.00	-3.23	17.00
5775MHz	Pass	1.30	0.58	0.58	30.00	1.88	36.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = Power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_1TX

PSD

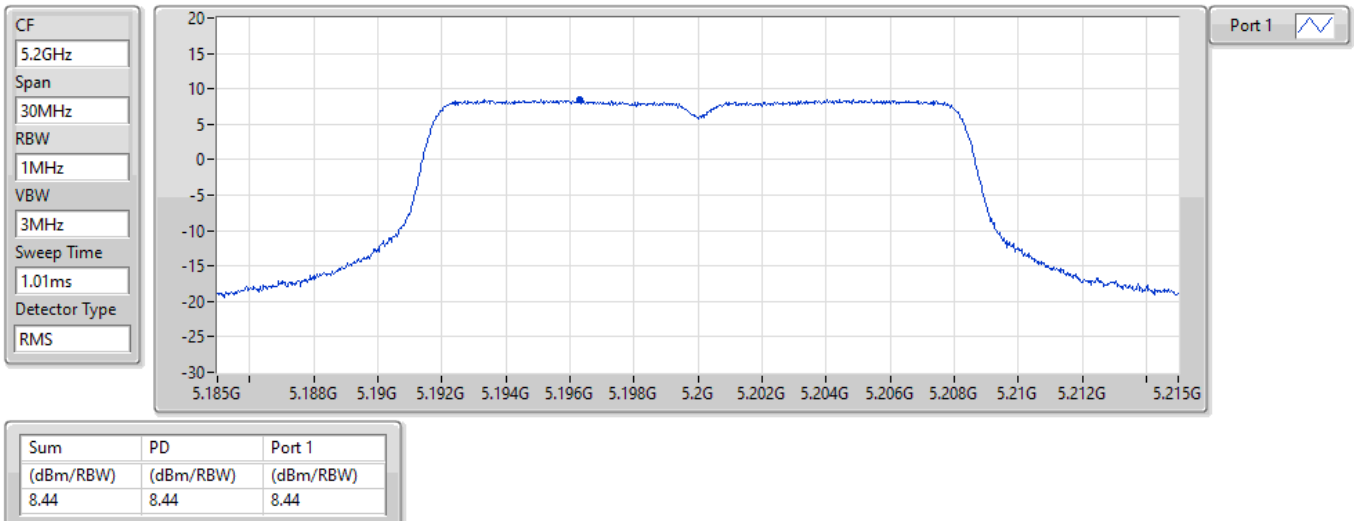
5180MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

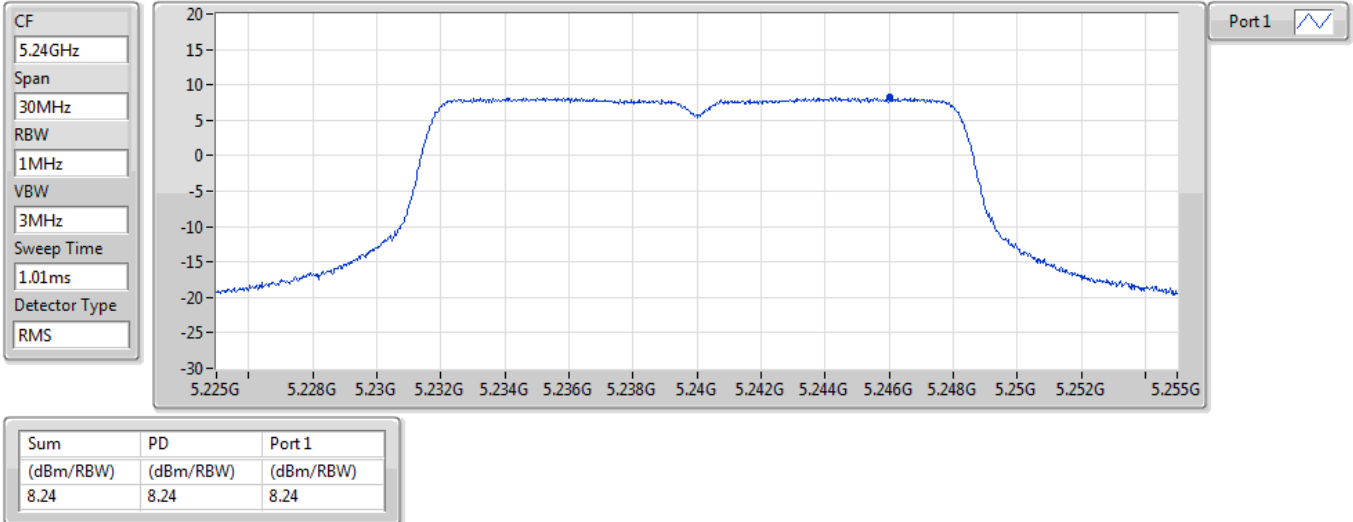
5200MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

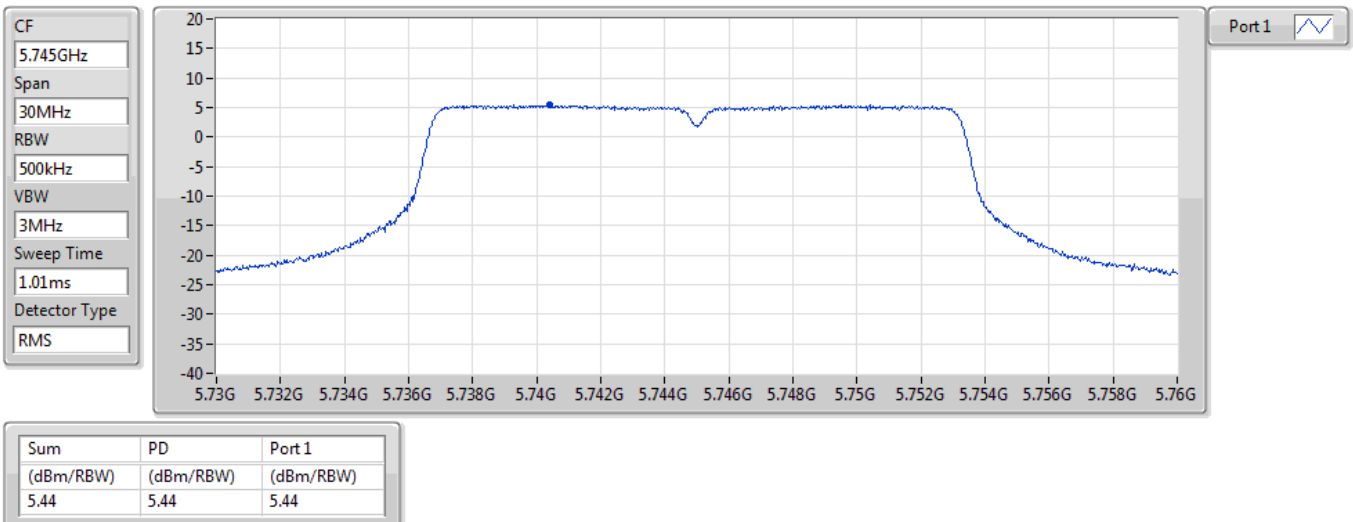
5240MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

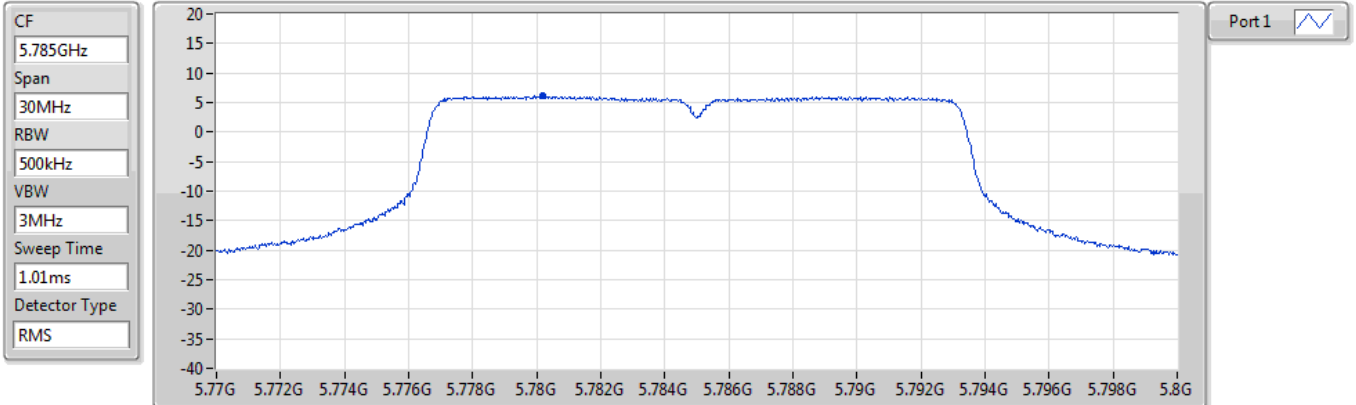
5745MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

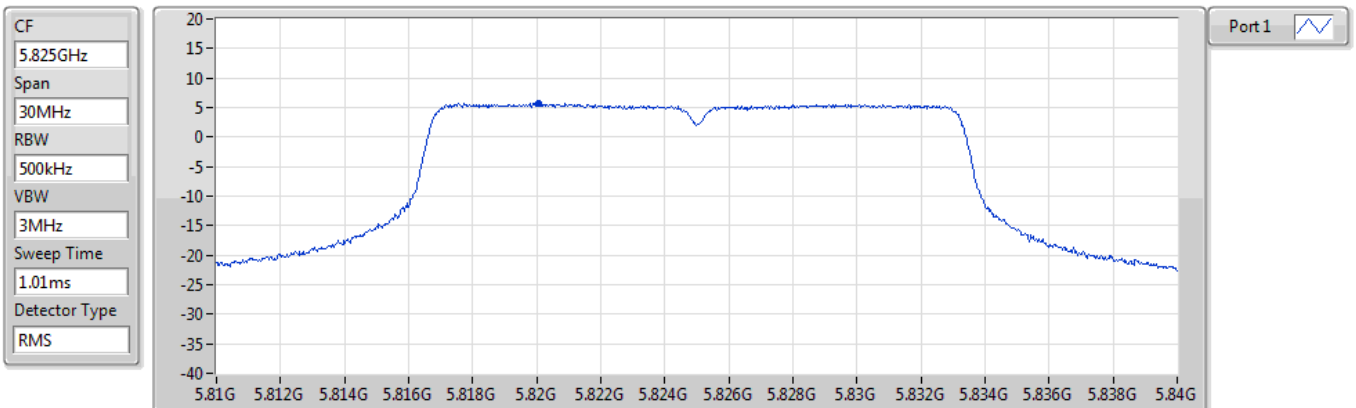
5785MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

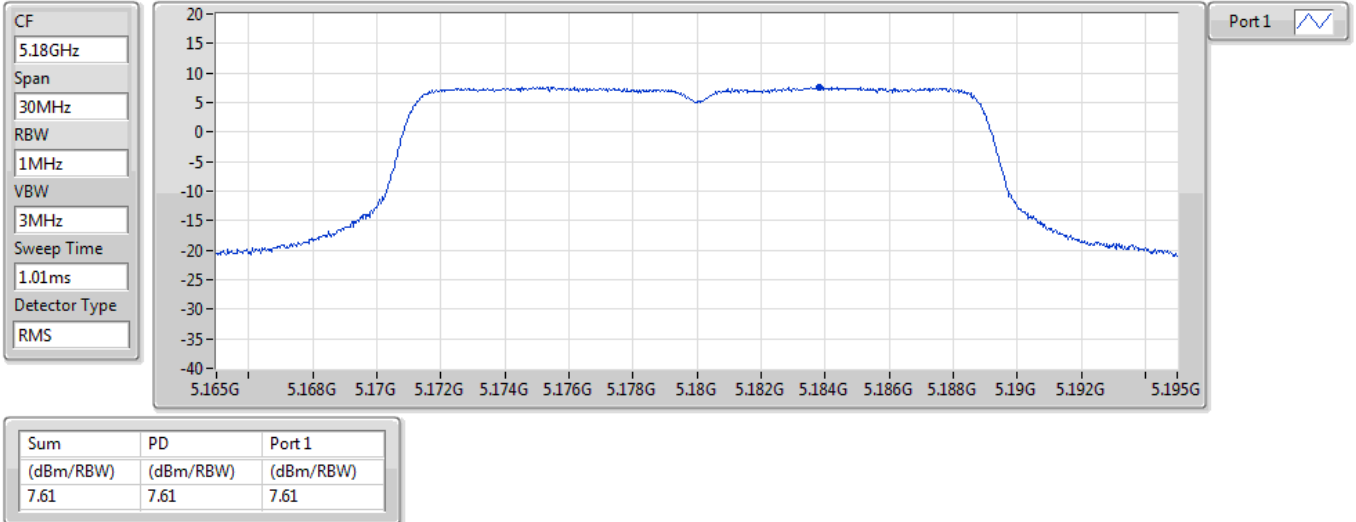
5825MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

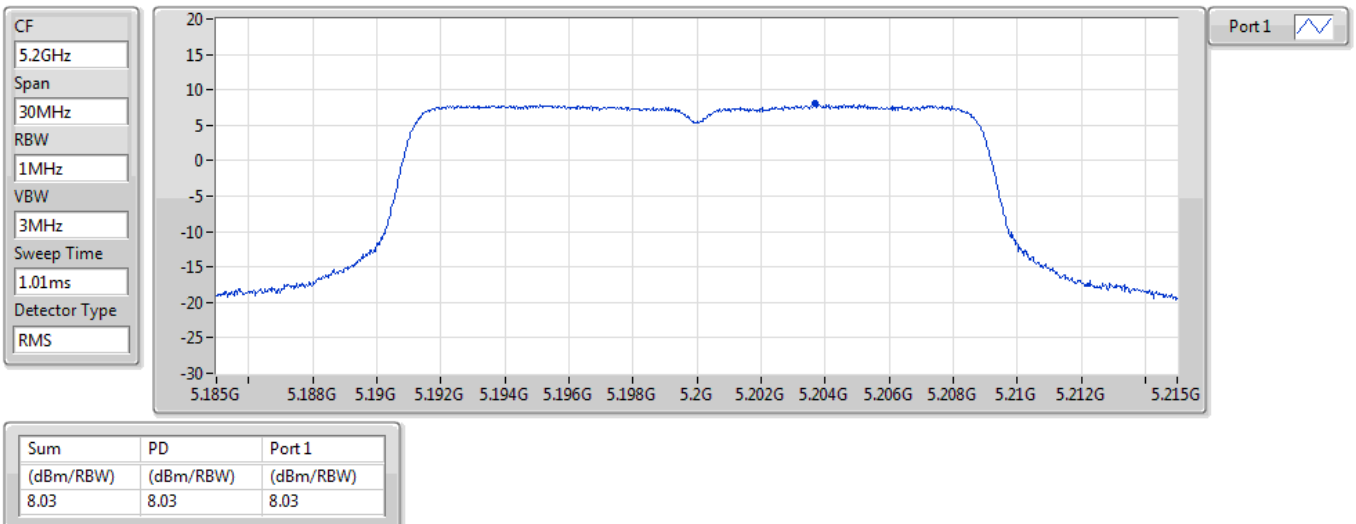
5180MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

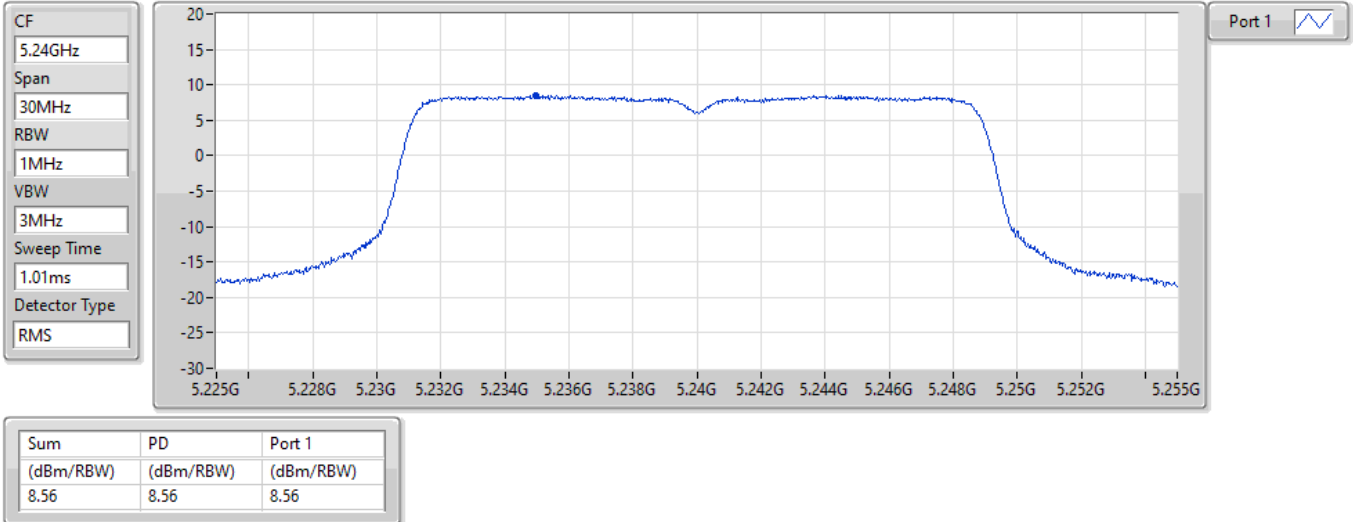
5200MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

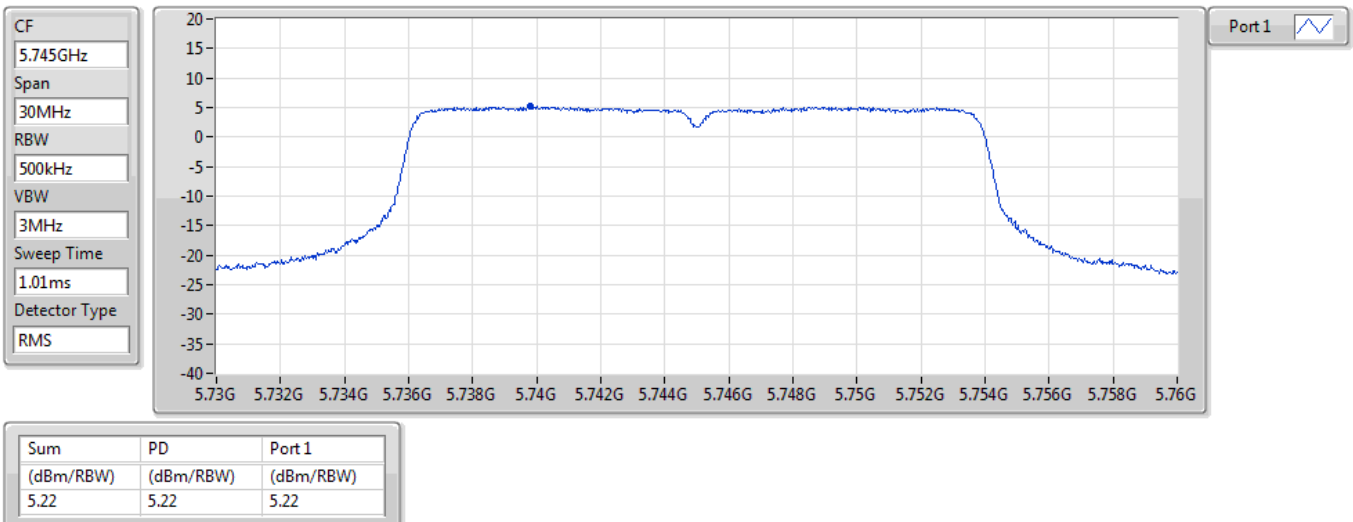
5240MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

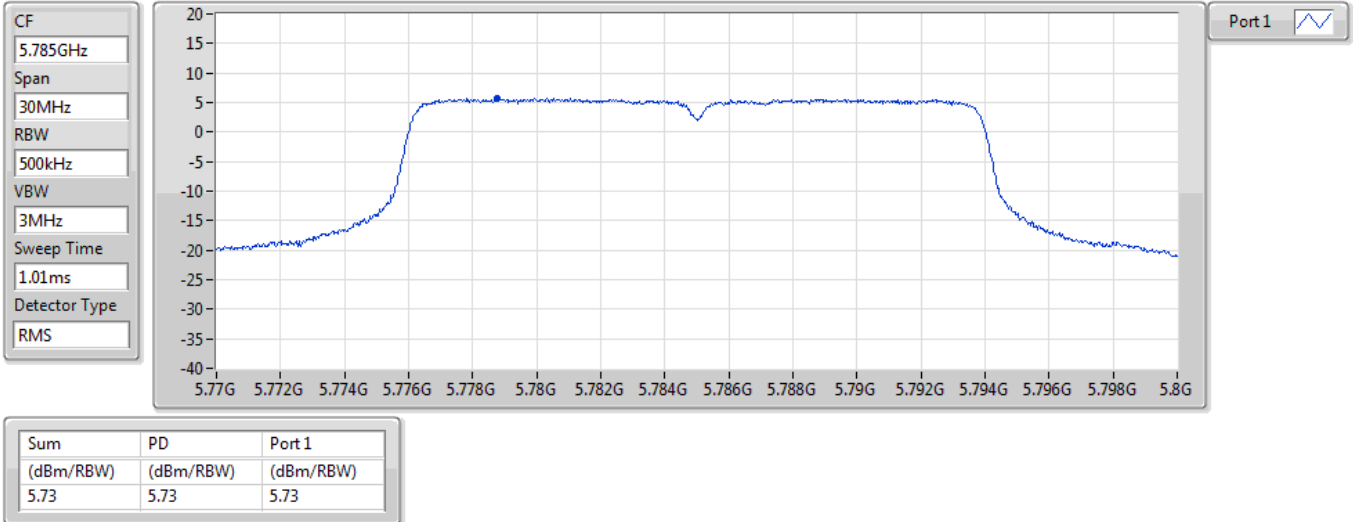
5745MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

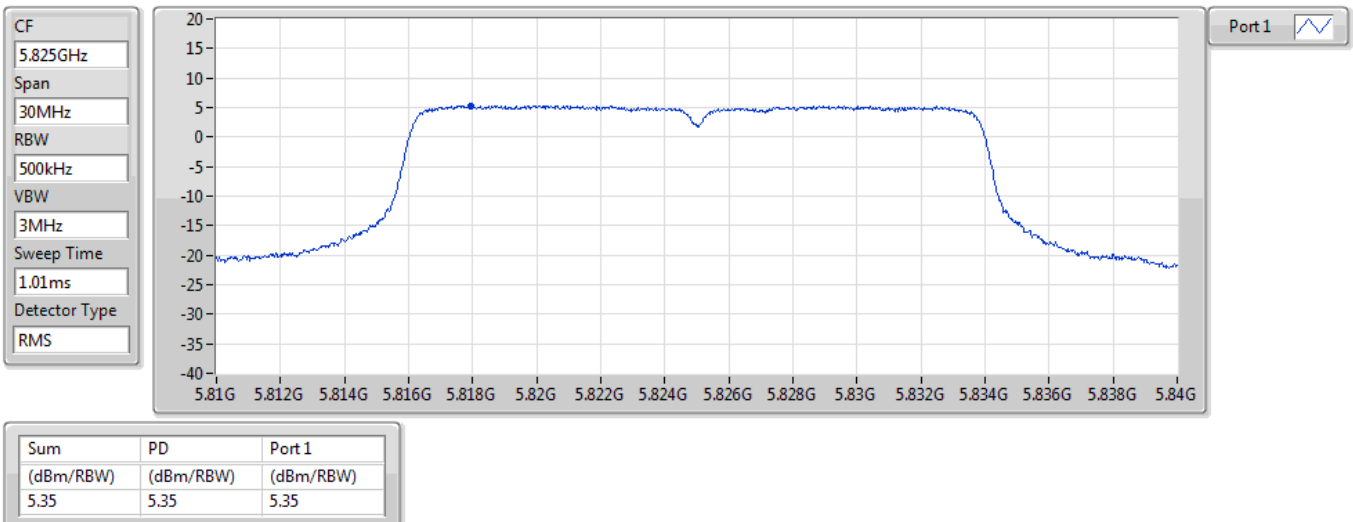
5785MHz



802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

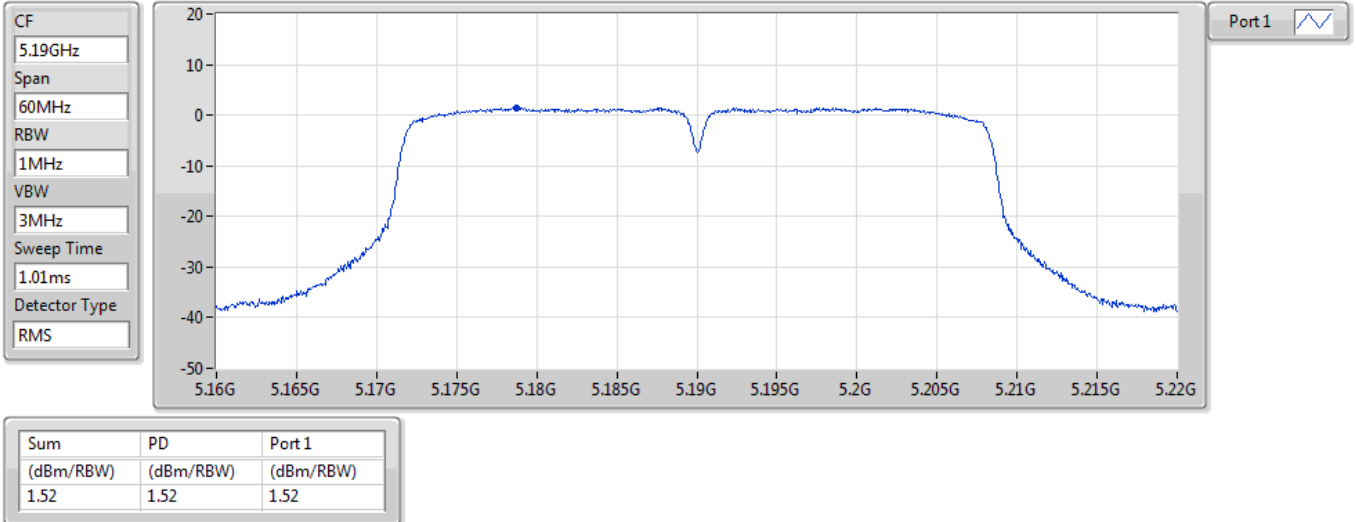
5825MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

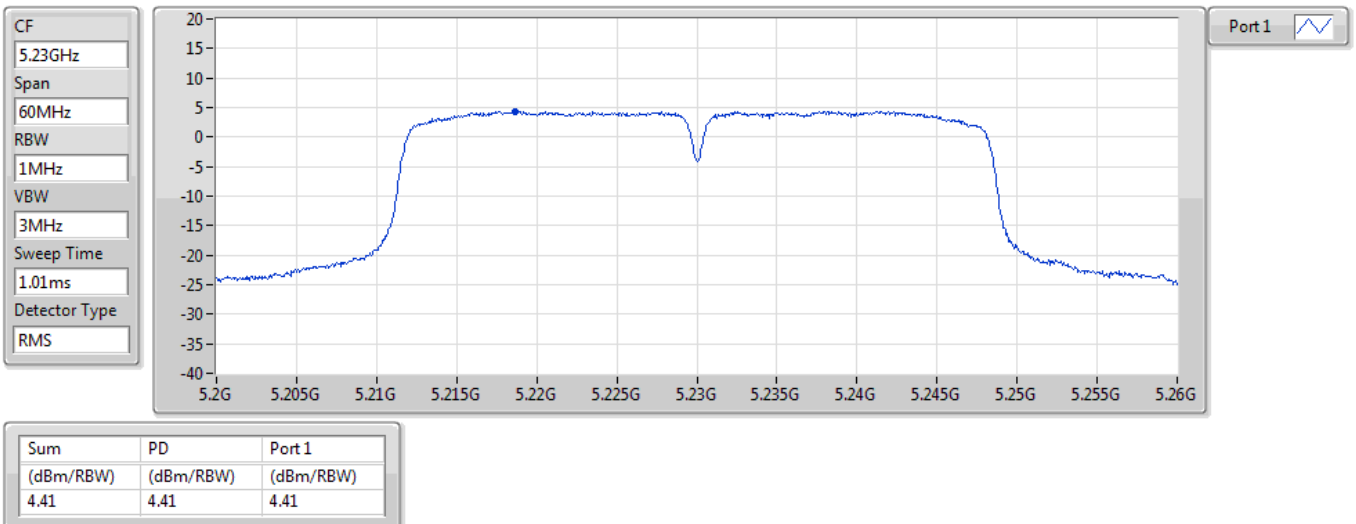
5190MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

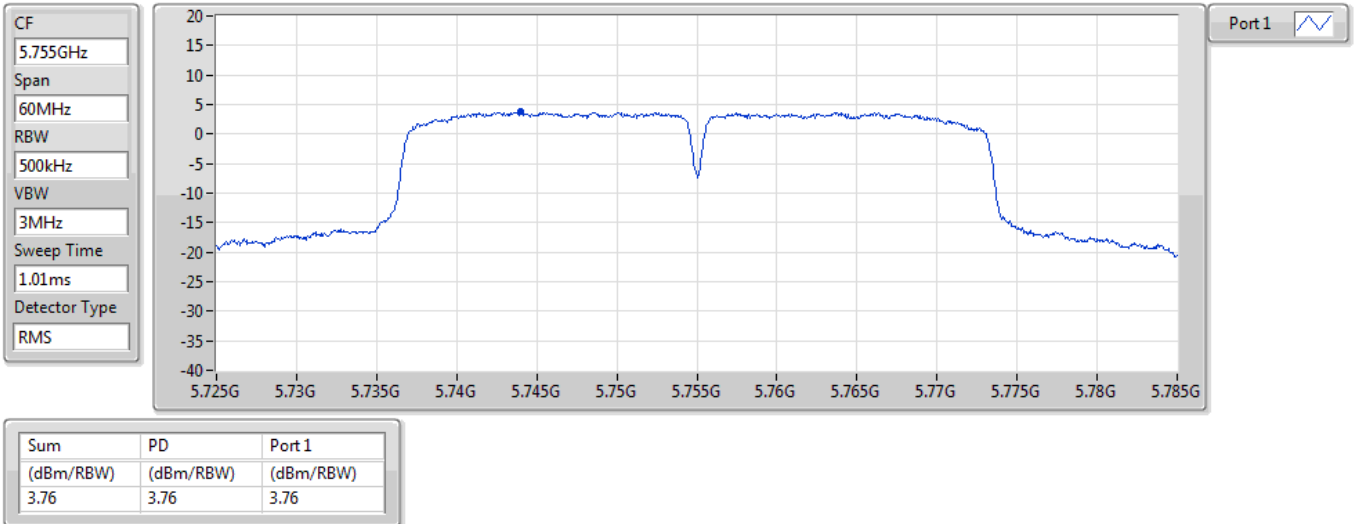
5230MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

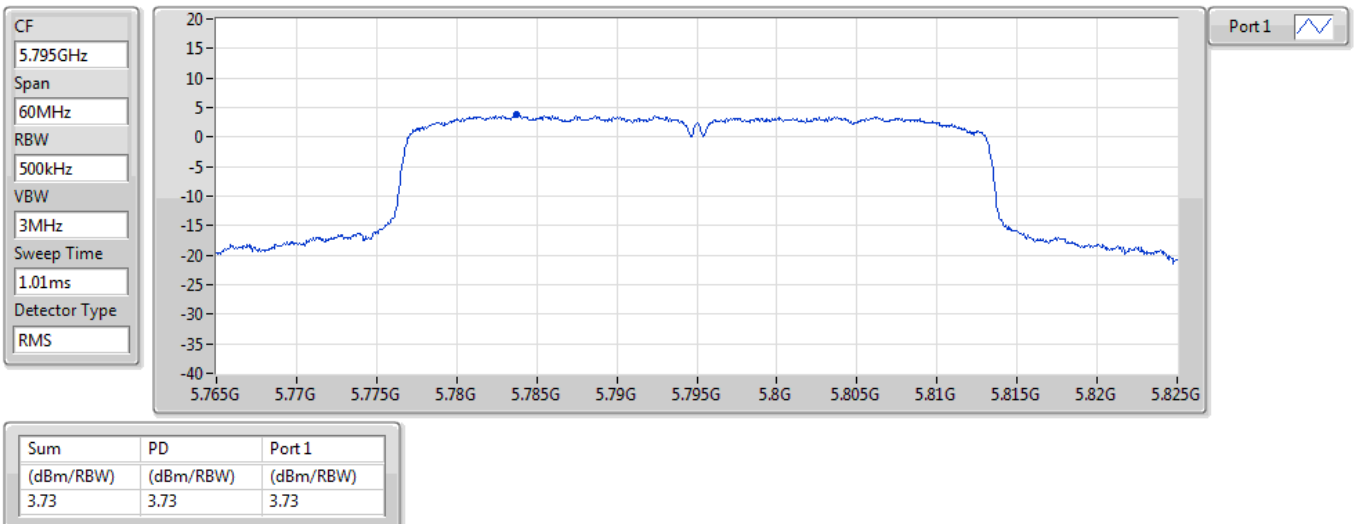
5755MHz



802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

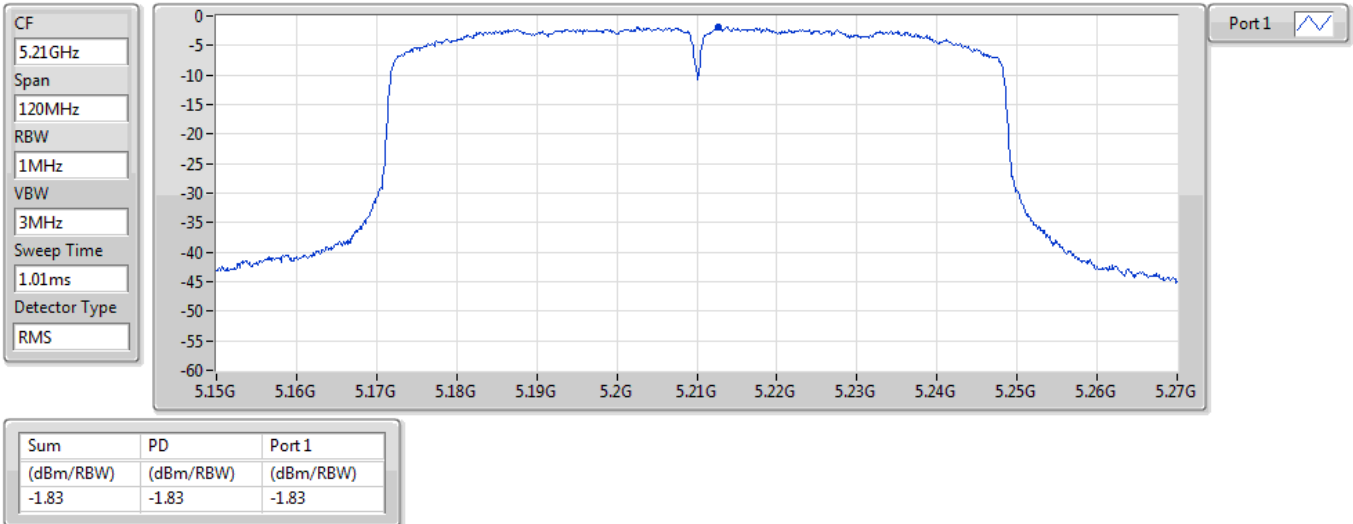
5795MHz



802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

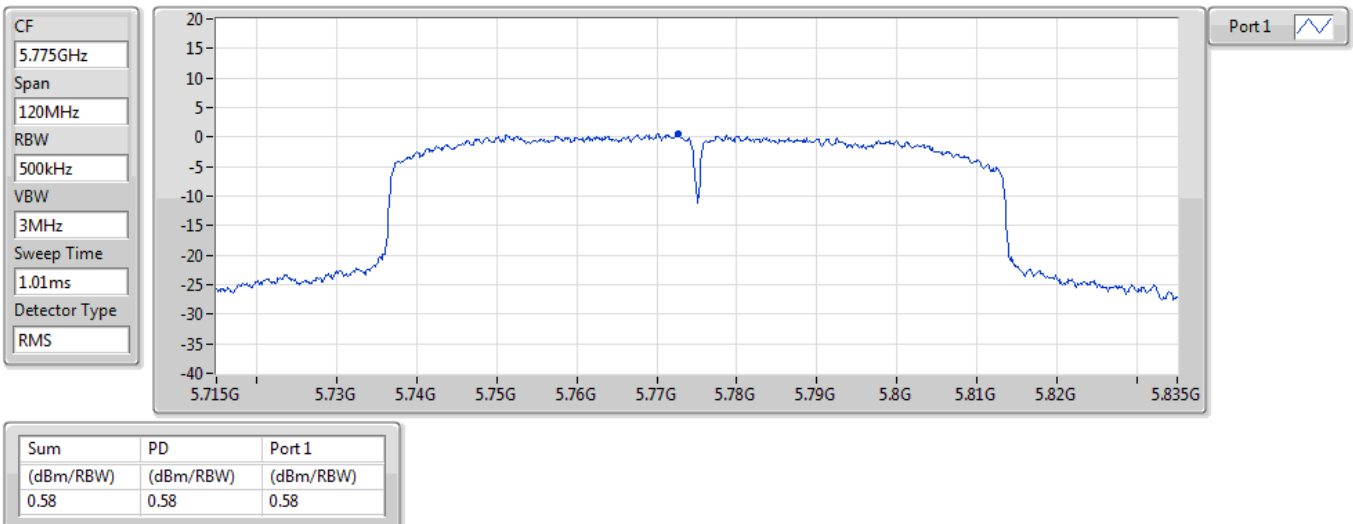
5210MHz



802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5775MHz





Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5200																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):65																																																																									
Level (dBUV/m) CLASS-B 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>46.88</td><td>23.47</td><td>40.00</td><td>-16.53</td><td>32.19</td><td>-8.72</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>104.52</td><td>23.73</td><td>43.50</td><td>-19.77</td><td>36.39</td><td>-12.66</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>148.58</td><td>31.20</td><td>43.50</td><td>-12.30</td><td>39.90</td><td>-8.70</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>166.36</td><td>32.26</td><td>43.50</td><td>-11.24</td><td>41.03</td><td>-8.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>215.68</td><td>34.63</td><td>43.50</td><td>-8.87</td><td>46.40</td><td>-11.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>245.52</td><td>41.08</td><td>46.00</td><td>-4.92</td><td>51.04</td><td>-9.96</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	46.88	23.47	40.00	-16.53	32.19	-8.72	Peak	---	---	2	104.52	23.73	43.50	-19.77	36.39	-12.66	Peak	---	---	3	148.58	31.20	43.50	-12.30	39.90	-8.70	Peak	---	---	4	166.36	32.26	43.50	-11.24	41.03	-8.77	Peak	---	---	5	215.68	34.63	43.50	-8.87	46.40	-11.77	Peak	---	---	6	245.52	41.08	46.00	-4.92	51.04	-9.96	Peak	---	---
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Modulation	11a	Test Freq. (MHz)	5200																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):65																																																																									
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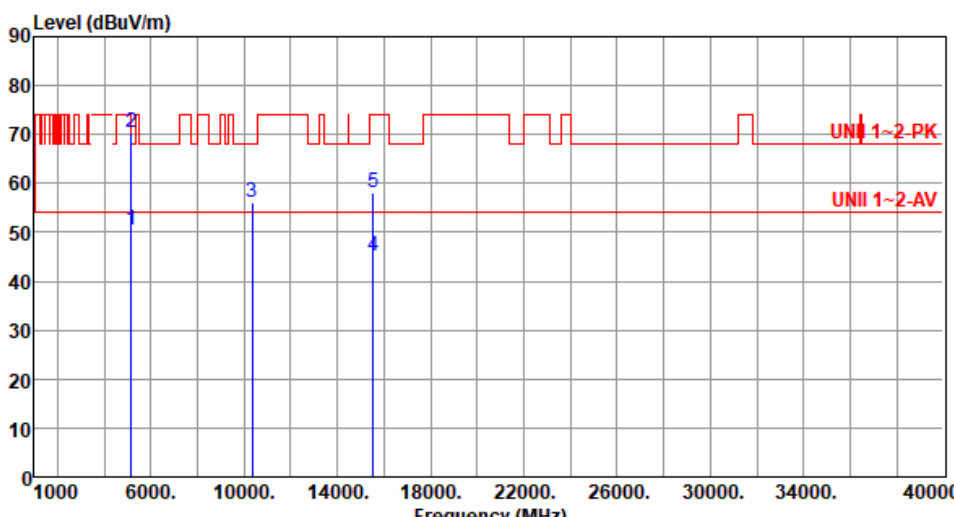
Modulation	ac VHT40		Test Freq. (MHz)		5755																																																																							
Polarization	Horizontal																																																																											
Test By :Akun Chung Temperature(°C):25 Humidity(%):65																																																																												
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Modulation	ac VHT40		Test Freq. (MHz)		5755	
Polarization	Vertical					
Test By :Akun Chung Temperature(°C):25 Humidity(%):65						
Level (dBuV/m) <						



Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																															
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>50.58</td><td>54.00</td><td>-3.42</td><td>44.27</td><td>6.31</td><td>Average</td><td>100</td><td>17</td></tr><tr><td>2</td><td>5150.00</td><td>70.56</td><td>74.00</td><td>-3.44</td><td>64.25</td><td>6.31</td><td>Peak</td><td>100</td><td>17</td></tr><tr><td>3</td><td>10360.00</td><td>56.22</td><td>68.20</td><td>-11.98</td><td>41.77</td><td>14.45</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>4</td><td>15540.00</td><td>45.06</td><td>54.00</td><td>-8.94</td><td>28.66</td><td>16.40</td><td>Average</td><td>100</td><td>14</td></tr><tr><td>5</td><td>15540.00</td><td>58.18</td><td>74.00</td><td>-15.82</td><td>41.78</td><td>16.40</td><td>Peak</td><td>100</td><td>14</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	50.58	54.00	-3.42	44.27	6.31	Average	100	17	2	5150.00	70.56	74.00	-3.44	64.25	6.31	Peak	100	17	3	10360.00	56.22	68.20	-11.98	41.77	14.45	Peak	100	20	4	15540.00	45.06	54.00	-8.94	28.66	16.40	Average	100	14	5	15540.00	58.18	74.00	-15.82	41.78	16.40	Peak	100	14
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Modulation	11a	Test Freq. (MHz)	5180																																																												
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Polarization	Horizontal																																																																																		
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																			
Level (dBuV/m) UNII 1~2-PK UNII 1~2-AV <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>47.15</td><td>54.00</td><td>-6.85</td><td>40.84</td><td>6.31</td><td>Average</td><td>100</td><td>16</td></tr><tr><td>2</td><td>5150.00</td><td>61.95</td><td>74.00</td><td>-12.05</td><td>55.64</td><td>6.31</td><td>Peak</td><td>100</td><td>16</td></tr><tr><td>3</td><td>5350.00</td><td>45.26</td><td>54.00</td><td>-8.74</td><td>39.54</td><td>5.72</td><td>Average</td><td>100</td><td>16</td></tr><tr><td>4</td><td>5350.00</td><td>58.83</td><td>74.00</td><td>-15.17</td><td>53.11</td><td>5.72</td><td>Peak</td><td>100</td><td>16</td></tr><tr><td>5</td><td>10400.00</td><td>55.70</td><td>68.20</td><td>-12.50</td><td>41.22</td><td>14.48</td><td>Peak</td><td>100</td><td>12</td></tr><tr><td>6</td><td>15600.00</td><td>44.75</td><td>54.00</td><td>-9.25</td><td>28.81</td><td>15.94</td><td>Average</td><td>100</td><td>25</td></tr><tr><td>7</td><td>15600.00</td><td>57.59</td><td>74.00</td><td>-16.41</td><td>41.65</td><td>15.94</td><td>Peak</td><td>100</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	47.15	54.00	-6.85	40.84	6.31	Average	100	16	2	5150.00	61.95	74.00	-12.05	55.64	6.31	Peak	100	16	3	5350.00	45.26	54.00	-8.74	39.54	5.72	Average	100	16	4	5350.00	58.83	74.00	-15.17	53.11	5.72	Peak	100	16	5	10400.00	55.70	68.20	-12.50	41.22	14.48	Peak	100	12	6	15600.00	44.75	54.00	-9.25	28.81	15.94	Average	100	25	7	15600.00	57.59	74.00	-16.41	41.65	15.94	Peak	100	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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2	5150.00	61.95	74.00	-12.05	55.64	6.31	Peak	100	16																																																																										
3	5350.00	45.26	54.00	-8.74	39.54	5.72	Average	100	16																																																																										
4	5350.00	58.83	74.00	-15.17	53.11	5.72	Peak	100	16																																																																										
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Modulation	11a	Test Freq. (MHz)	5200																																																																																
Polarization	Vertical																																																																																		
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																			
<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>47.75</td><td>54.00</td><td>-6.25</td><td>41.44</td><td>6.31</td><td>Average</td><td>287</td><td>261</td></tr><tr><td>2</td><td>5150.00</td><td>62.89</td><td>74.00</td><td>-11.11</td><td>56.58</td><td>6.31</td><td>Peak</td><td>287</td><td>261</td></tr><tr><td>3</td><td>5350.00</td><td>45.31</td><td>54.00</td><td>-8.69</td><td>39.59</td><td>5.72</td><td>Average</td><td>287</td><td>261</td></tr><tr><td>4</td><td>5350.00</td><td>59.06</td><td>74.00</td><td>-14.94</td><td>53.34</td><td>5.72</td><td>Peak</td><td>287</td><td>261</td></tr><tr><td>5</td><td>10400.00</td><td>56.93</td><td>68.20</td><td>-11.27</td><td>42.45</td><td>14.48</td><td>Peak</td><td>100</td><td>24</td></tr><tr><td>6</td><td>15600.00</td><td>45.35</td><td>54.00</td><td>-8.65</td><td>29.41</td><td>15.94</td><td>Average</td><td>100</td><td>33</td></tr><tr><td>7</td><td>15600.00</td><td>58.46</td><td>74.00</td><td>-15.54</td><td>42.52</td><td>15.94</td><td>Peak</td><td>100</td><td>33</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	47.75	54.00	-6.25	41.44	6.31	Average	287	261	2	5150.00	62.89	74.00	-11.11	56.58	6.31	Peak	287	261	3	5350.00	45.31	54.00	-8.69	39.59	5.72	Average	287	261	4	5350.00	59.06	74.00	-14.94	53.34	5.72	Peak	287	261	5	10400.00	56.93	68.20	-11.27	42.45	14.48	Peak	100	24	6	15600.00	45.35	54.00	-8.65	29.41	15.94	Average	100	33	7	15600.00	58.46	74.00	-15.54	42.52	15.94	Peak	100	33
	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)	5240																																																																																
Polarization	Horizontal																																																																																		
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																			
<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>43.97</td><td>54.00</td><td>-10.03</td><td>37.66</td><td>6.31</td><td>Average</td><td>100</td><td>5</td></tr><tr><td>2</td><td>5150.00</td><td>58.64</td><td>74.00</td><td>-15.36</td><td>52.33</td><td>6.31</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>3</td><td>5350.00</td><td>43.71</td><td>54.00</td><td>-10.29</td><td>37.99</td><td>5.72</td><td>Average</td><td>100</td><td>5</td></tr><tr><td>4</td><td>5350.00</td><td>57.37</td><td>74.00</td><td>-16.63</td><td>51.65</td><td>5.72</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>5</td><td>10480.00</td><td>56.30</td><td>68.20</td><td>-11.90</td><td>41.67</td><td>14.63</td><td>Peak</td><td>100</td><td>18</td></tr><tr><td>6</td><td>15720.00</td><td>44.62</td><td>54.00</td><td>-9.38</td><td>28.67</td><td>15.95</td><td>Average</td><td>100</td><td>10</td></tr><tr><td>7</td><td>15720.00</td><td>58.60</td><td>74.00</td><td>-15.40</td><td>42.65</td><td>15.95</td><td>Peak</td><td>100</td><td>10</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	43.97	54.00	-10.03	37.66	6.31	Average	100	5	2	5150.00	58.64	74.00	-15.36	52.33	6.31	Peak	100	5	3	5350.00	43.71	54.00	-10.29	37.99	5.72	Average	100	5	4	5350.00	57.37	74.00	-16.63	51.65	5.72	Peak	100	5	5	10480.00	56.30	68.20	-11.90	41.67	14.63	Peak	100	18	6	15720.00	44.62	54.00	-9.38	28.67	15.95	Average	100	10	7	15720.00	58.60	74.00	-15.40	42.65	15.95	Peak	100	10
	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)	5240																																																																																
Polarization	Vertical																																																																																		
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																			
<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>44.09</td><td>54.00</td><td>-9.91</td><td>37.78</td><td>6.31</td><td>Average</td><td>287</td><td>254</td></tr><tr><td>2</td><td>5150.00</td><td>58.74</td><td>74.00</td><td>-15.26</td><td>52.43</td><td>6.31</td><td>Peak</td><td>287</td><td>254</td></tr><tr><td>3</td><td>5350.00</td><td>43.74</td><td>54.00</td><td>-10.26</td><td>38.02</td><td>5.72</td><td>Average</td><td>287</td><td>254</td></tr><tr><td>4</td><td>5350.00</td><td>57.43</td><td>74.00</td><td>-16.57</td><td>51.71</td><td>5.72</td><td>Peak</td><td>287</td><td>254</td></tr><tr><td>5</td><td>10480.00</td><td>57.57</td><td>68.20</td><td>-10.63</td><td>42.94</td><td>14.63</td><td>Peak</td><td>100</td><td>43</td></tr><tr><td>6</td><td>15720.00</td><td>45.82</td><td>54.00</td><td>-8.18</td><td>29.87</td><td>15.95</td><td>Average</td><td>100</td><td>48</td></tr><tr><td>7</td><td>15720.00</td><td>58.84</td><td>74.00</td><td>-15.16</td><td>42.89</td><td>15.95</td><td>Peak</td><td>100</td><td>48</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	44.09	54.00	-9.91	37.78	6.31	Average	287	254	2	5150.00	58.74	74.00	-15.26	52.43	6.31	Peak	287	254	3	5350.00	43.74	54.00	-10.26	38.02	5.72	Average	287	254	4	5350.00	57.43	74.00	-16.57	51.71	5.72	Peak	287	254	5	10480.00	57.57	68.20	-10.63	42.94	14.63	Peak	100	43	6	15720.00	45.82	54.00	-8.18	29.87	15.95	Average	100	48	7	15720.00	58.84	74.00	-15.16	42.89	15.95	Peak	100	48
	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	58.74	74.00	-15.26	52.43	6.31	Peak	287	254																																																																										
3	5350.00	43.74	54.00	-10.26	38.02	5.72	Average	287	254																																																																										
4	5350.00	57.43	74.00	-16.57	51.71	5.72	Peak	287	254																																																																										
5	10480.00	57.57	68.20	-10.63	42.94	14.63	Peak	100	43																																																																										
6	15720.00	45.82	54.00	-8.18	29.87	15.95	Average	100	48																																																																										
7	15720.00	58.84	74.00	-15.16	42.89	15.95	Peak	100	48																																																																										
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Modulation	11a		Test Freq. (MHz)		5745																																																																																											
Polarization	Horizontal																																																																																															
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																																
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.60</td><td>68.20</td><td>-10.60</td><td>51.28</td><td>6.32</td><td>Peak</td><td>100</td><td>3</td></tr><tr><td>2</td><td>5700.00</td><td>60.78</td><td>105.20</td><td>-44.42</td><td>54.25</td><td>6.53</td><td>Peak</td><td>100</td><td>3</td></tr><tr><td>3</td><td>5720.00</td><td>74.02</td><td>110.80</td><td>-36.78</td><td>67.44</td><td>6.58</td><td>Peak</td><td>100</td><td>3</td></tr><tr><td>4</td><td>5725.00</td><td>87.47</td><td>122.20</td><td>-34.73</td><td>80.88</td><td>6.59</td><td>Peak</td><td>100</td><td>3</td></tr><tr><td>5</td><td>5925.00</td><td>58.49</td><td>68.20</td><td>-9.71</td><td>51.46</td><td>7.03</td><td>Peak</td><td>100</td><td>3</td></tr><tr><td>6</td><td>11490.00</td><td>46.19</td><td>54.00</td><td>-7.81</td><td>30.81</td><td>15.38</td><td>Average</td><td>100</td><td>114</td></tr><tr><td>7</td><td>11490.00</td><td>58.25</td><td>74.00</td><td>-15.75</td><td>42.87</td><td>15.38</td><td>Peak</td><td>100</td><td>114</td></tr><tr><td>8</td><td>17235.00</td><td>60.99</td><td>68.20</td><td>-7.21</td><td>42.73</td><td>18.26</td><td>Peak</td><td>100</td><td>112</td></tr></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.60	68.20	-10.60	51.28	6.32	Peak	100	3	2	5700.00	60.78	105.20	-44.42	54.25	6.53	Peak	100	3	3	5720.00	74.02	110.80	-36.78	67.44	6.58	Peak	100	3	4	5725.00	87.47	122.20	-34.73	80.88	6.59	Peak	100	3	5	5925.00	58.49	68.20	-9.71	51.46	7.03	Peak	100	3	6	11490.00	46.19	54.00	-7.81	30.81	15.38	Average	100	114	7	11490.00	58.25	74.00	-15.75	42.87	15.38	Peak	100	114	8	17235.00	60.99	68.20	-7.21	42.73	18.26	Peak	100	112
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																							
1	5650.00	57.60	68.20	-10.60	51.28	6.32	Peak	100	3																																																																																							
2	5700.00	60.78	105.20	-44.42	54.25	6.53	Peak	100	3																																																																																							
3	5720.00	74.02	110.80	-36.78	67.44	6.58	Peak	100	3																																																																																							
4	5725.00	87.47	122.20	-34.73	80.88	6.59	Peak	100	3																																																																																							
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6	11490.00	46.19	54.00	-7.81	30.81	15.38	Average	100	114																																																																																							
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Modulation	11a		Test Freq. (MHz)		5745																																																																																											
Polarization	Vertical																																																																																															
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																																
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.77</td><td>68.20</td><td>-10.43</td><td>51.45</td><td>6.32</td><td>Peak</td><td>138</td><td>355</td></tr><tr><td>2</td><td>5700.00</td><td>61.65</td><td>105.20</td><td>-43.55</td><td>55.12</td><td>6.53</td><td>Peak</td><td>138</td><td>355</td></tr><tr><td>3</td><td>5720.00</td><td>75.56</td><td>110.80</td><td>-35.24</td><td>68.98</td><td>6.58</td><td>Peak</td><td>138</td><td>355</td></tr><tr><td>4</td><td>5725.00</td><td>88.62</td><td>122.20</td><td>-33.58</td><td>82.03</td><td>6.59</td><td>Peak</td><td>138</td><td>355</td></tr><tr><td>5</td><td>5925.00</td><td>58.59</td><td>68.20</td><td>-9.61</td><td>51.56</td><td>7.03</td><td>Peak</td><td>138</td><td>355</td></tr><tr><td>6</td><td>11490.00</td><td>47.25</td><td>54.00</td><td>-6.75</td><td>31.87</td><td>15.38</td><td>Average</td><td>100</td><td>153</td></tr><tr><td>7</td><td>11490.00</td><td>59.35</td><td>74.00</td><td>-14.65</td><td>43.97</td><td>15.38</td><td>Peak</td><td>100</td><td>153</td></tr><tr><td>8</td><td>17235.00</td><td>61.13</td><td>68.20</td><td>-7.07</td><td>42.87</td><td>18.26</td><td>Peak</td><td>100</td><td>158</td></tr></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.77	68.20	-10.43	51.45	6.32	Peak	138	355	2	5700.00	61.65	105.20	-43.55	55.12	6.53	Peak	138	355	3	5720.00	75.56	110.80	-35.24	68.98	6.58	Peak	138	355	4	5725.00	88.62	122.20	-33.58	82.03	6.59	Peak	138	355	5	5925.00	58.59	68.20	-9.61	51.56	7.03	Peak	138	355	6	11490.00	47.25	54.00	-6.75	31.87	15.38	Average	100	153	7	11490.00	59.35	74.00	-14.65	43.97	15.38	Peak	100	153	8	17235.00	61.13	68.20	-7.07	42.87	18.26	Peak	100	158
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																							
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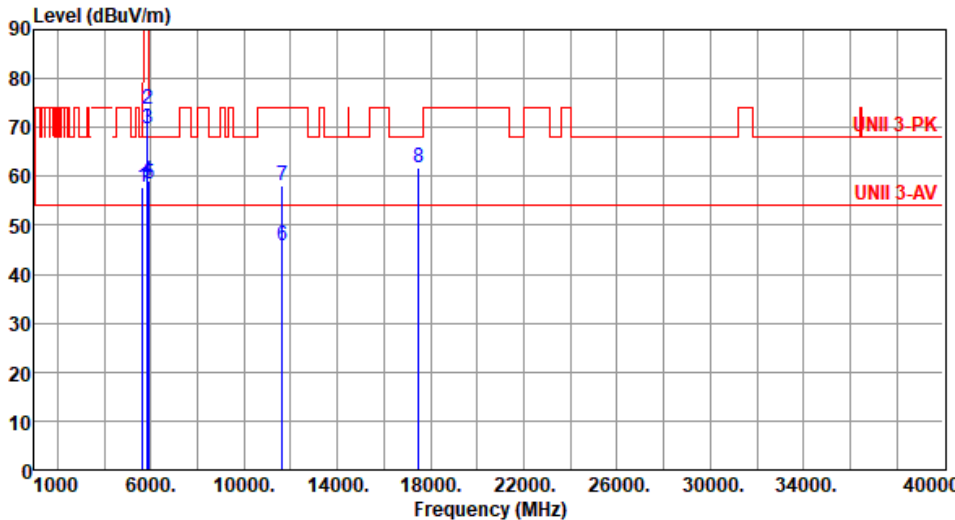


Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																															
<table><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>60.22</td><td>68.20</td><td>-7.98</td><td>53.90</td><td>6.32</td><td>Peak</td><td>100</td><td>286</td></tr><tr><td>2</td><td>5925.00</td><td>60.85</td><td>68.20</td><td>-7.35</td><td>53.82</td><td>7.03</td><td>Peak</td><td>100</td><td>286</td></tr><tr><td>3</td><td>11570.00</td><td>46.21</td><td>54.00</td><td>-7.79</td><td>30.83</td><td>15.38</td><td>Average</td><td>100</td><td>121</td></tr><tr><td>4</td><td>11570.00</td><td>58.20</td><td>74.00</td><td>-15.80</td><td>42.82</td><td>15.38</td><td>Peak</td><td>100</td><td>121</td></tr><tr><td>5</td><td>17355.00</td><td>60.54</td><td>68.20</td><td>-7.66</td><td>41.56</td><td>18.98</td><td>Peak</td><td>100</td><td>38</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	60.22	68.20	-7.98	53.90	6.32	Peak	100	286	2	5925.00	60.85	68.20	-7.35	53.82	7.03	Peak	100	286	3	11570.00	46.21	54.00	-7.79	30.83	15.38	Average	100	121	4	11570.00	58.20	74.00	-15.80	42.82	15.38	Peak	100	121	5	17355.00	60.54	68.20	-7.66	41.56	18.98	Peak	100	38
	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																																																												
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Modulation	11a	Test Freq. (MHz)	5825																																																																																										
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	5650.00	57.87	68.20	-10.33	51.55	6.32	Peak	100	11																																																																																				
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3	5855.00	69.67	110.80	-41.13	62.87	6.80	Peak	100	11																																																																																				
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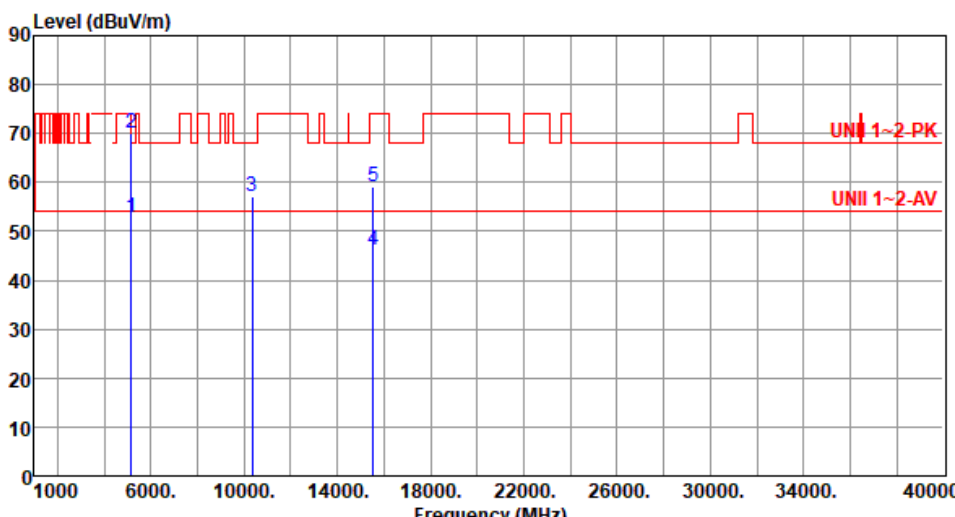
Modulation	11a	Test Freq. (MHz)	5825																																																																																										
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Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Unwanted Emissions (Above 1GHz) for ac VHT20

Modulation	ac VHT20	Test Freq. (MHz)	5180																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																															
<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>51.20</td><td>54.00</td><td>-2.80</td><td>44.89</td><td>6.31</td><td>Average</td><td>100</td><td>14</td></tr><tr><td>2</td><td>5150.00</td><td>68.30</td><td>74.00</td><td>-5.70</td><td>61.99</td><td>6.31</td><td>Peak</td><td>100</td><td>14</td></tr><tr><td>3</td><td>10360.00</td><td>56.03</td><td>68.20</td><td>-12.17</td><td>41.58</td><td>14.45</td><td>Peak</td><td>100</td><td>16</td></tr><tr><td>4</td><td>15540.00</td><td>44.97</td><td>54.00</td><td>-9.03</td><td>28.57</td><td>16.40</td><td>Average</td><td>100</td><td>8</td></tr><tr><td>5</td><td>15540.00</td><td>57.99</td><td>74.00</td><td>-16.01</td><td>41.59</td><td>16.40</td><td>Peak</td><td>100</td><td>8</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	51.20	54.00	-2.80	44.89	6.31	Average	100	14	2	5150.00	68.30	74.00	-5.70	61.99	6.31	Peak	100	14	3	10360.00	56.03	68.20	-12.17	41.58	14.45	Peak	100	16	4	15540.00	44.97	54.00	-9.03	28.57	16.40	Average	100	8	5	15540.00	57.99	74.00	-16.01	41.59	16.40	Peak	100	8
	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	51.20	54.00	-2.80	44.89	6.31	Average	100	14																																																						
2	5150.00	68.30	74.00	-5.70	61.99	6.31	Peak	100	14																																																						
3	10360.00	56.03	68.20	-12.17	41.58	14.45	Peak	100	16																																																						
4	15540.00	44.97	54.00	-9.03	28.57	16.40	Average	100	8																																																						
5	15540.00	57.99	74.00	-16.01	41.59	16.40	Peak	100	8																																																						
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	ac VHT20		Test Freq. (MHz)		5180				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):25			Humidity(%):68			
									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	52.95	54.00	-1.05	46.64	6.31	Average	286	254
2	5150.00	70.06	74.00	-3.94	63.75	6.31	Peak	286	254
3	10360.00	57.21	68.20	-10.99	42.76	14.45	Peak	100	47
4	15540.00	46.21	54.00	-7.79	29.81	16.40	Average	100	42
5	15540.00	59.09	74.00	-14.91	42.69	16.40	Peak	100	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	ac VHT20		Test Freq. (MHz)		5200	
Polarization	Horizontal					
Test By :Brad Wu Temperature(°C):25 Humidity(%):68						
Level (dBuV/m)						



Modulation	ac VHT20		Test Freq. (MHz)		5200				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):25			Humidity(%):68			
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	48.13	54.00	-5.87	41.82	6.31	Average	287	261
2	5150.00	62.95	74.00	-11.05	56.64	6.31	Peak	287	261
3	5350.00	46.24	54.00	-7.76	40.52	5.72	Average	287	261
4	5350.00	60.35	74.00	-13.65	54.63	5.72	Peak	287	261
5	10400.00	56.06	68.20	-12.14	41.58	14.48	Peak	100	29
6	15600.00	44.42	54.00	-9.58	28.48	15.94	Average	100	36
7	15600.00	57.51	74.00	-16.49	41.57	15.94	Peak	100	36
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)									
*Factor includes antenna factor , cable loss and amplifier gain									
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).									



Modulation	ac VHT20		Test Freq. (MHz)		5240																																																																																																								
Polarization	Horizontal																																																																																																												
Test By :Brad Wu			Temperature(°C):25			Humidity(%):68																																																																																																							
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>44.41</td><td>54.00</td><td>-9.59</td><td>38.10</td><td>6.31</td><td>Average</td><td>100</td><td>10</td></tr><tr><td>2</td><td>5150.00</td><td>57.40</td><td>74.00</td><td>-16.60</td><td>51.09</td><td>6.31</td><td>Peak</td><td>100</td><td>10</td></tr><tr><td>3</td><td>5350.00</td><td>44.22</td><td>54.00</td><td>-9.78</td><td>38.50</td><td>5.72</td><td>Average</td><td>100</td><td>10</td></tr><tr><td>4</td><td>5350.00</td><td>56.82</td><td>74.00</td><td>-17.18</td><td>51.10</td><td>5.72</td><td>Peak</td><td>100</td><td>10</td></tr><tr><td>5</td><td>10480.00</td><td>56.21</td><td>68.20</td><td>-11.99</td><td>41.58</td><td>14.63</td><td>Peak</td><td>100</td><td>18</td></tr><tr><td>6</td><td>15720.00</td><td>44.52</td><td>54.00</td><td>-9.48</td><td>28.57</td><td>15.95</td><td>Average</td><td>100</td><td>7</td></tr><tr><td>7</td><td>15720.00</td><td>57.49</td><td>74.00</td><td>-16.51</td><td>41.54</td><td>15.95</td><td>Peak</td><td>100</td><td>7</td></tr></tbody></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5150.00	44.41	54.00	-9.59	38.10	6.31	Average	100	10	2	5150.00	57.40	74.00	-16.60	51.09	6.31	Peak	100	10	3	5350.00	44.22	54.00	-9.78	38.50	5.72	Average	100	10	4	5350.00	56.82	74.00	-17.18	51.10	5.72	Peak	100	10	5	10480.00	56.21	68.20	-11.99	41.58	14.63	Peak	100	18	6	15720.00	44.52	54.00	-9.48	28.57	15.95	Average	100	7	7	15720.00	57.49	74.00	-16.51	41.54	15.95	Peak	100	7
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																				
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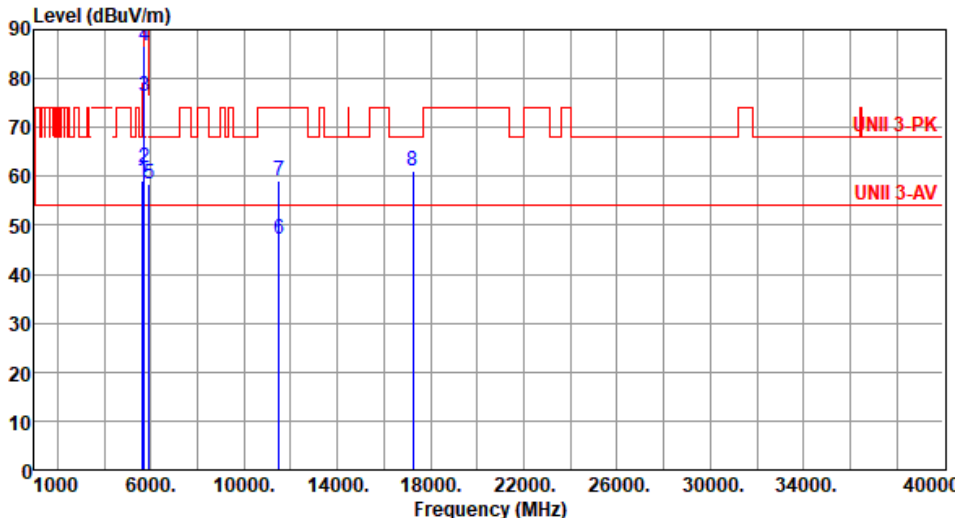


Modulation	ac VHT20		Test Freq. (MHz)		5240																																																																																																								
Polarization	Vertical																																																																																																												
Test By :Brad Wu			Temperature(°C):25			Humidity(%):68																																																																																																							
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>44.56</td><td>54.00</td><td>-9.44</td><td>38.25</td><td>6.31</td><td>Average</td><td>285</td><td>254</td></tr><tr><td>2</td><td>5150.00</td><td>57.55</td><td>74.00</td><td>-16.45</td><td>51.24</td><td>6.31</td><td>Peak</td><td>285</td><td>254</td></tr><tr><td>3</td><td>5350.00</td><td>43.93</td><td>54.00</td><td>-10.07</td><td>38.21</td><td>5.72</td><td>Average</td><td>285</td><td>254</td></tr><tr><td>4</td><td>5350.00</td><td>57.07</td><td>74.00</td><td>-16.93</td><td>51.35</td><td>5.72</td><td>Peak</td><td>285</td><td>254</td></tr><tr><td>5</td><td>10480.00</td><td>57.40</td><td>68.20</td><td>-10.80</td><td>42.77</td><td>14.63</td><td>Peak</td><td>100</td><td>45</td></tr><tr><td>6</td><td>15720.00</td><td>45.68</td><td>54.00</td><td>-8.32</td><td>29.73</td><td>15.95</td><td>Average</td><td>100</td><td>41</td></tr><tr><td>7</td><td>15720.00</td><td>58.67</td><td>74.00</td><td>-15.33</td><td>42.72</td><td>15.95</td><td>Peak</td><td>100</td><td>41</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m	dBuV/m	dB	dBuV			cm	deg	1	5150.00	44.56	54.00	-9.44	38.25	6.31	Average	285	254	2	5150.00	57.55	74.00	-16.45	51.24	6.31	Peak	285	254	3	5350.00	43.93	54.00	-10.07	38.21	5.72	Average	285	254	4	5350.00	57.07	74.00	-16.93	51.35	5.72	Peak	285	254	5	10480.00	57.40	68.20	-10.80	42.77	14.63	Peak	100	45	6	15720.00	45.68	54.00	-8.32	29.73	15.95	Average	100	41	7	15720.00	58.67	74.00	-15.33	42.72	15.95	Peak	100	41
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																				
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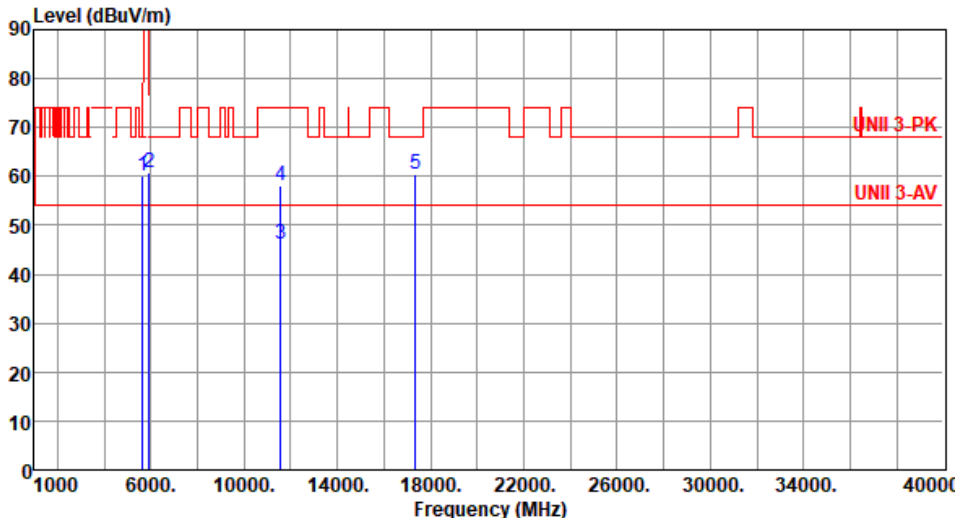


Modulation	ac VHT20		Test Freq. (MHz)		5745																																																																																											
Polarization	Horizontal																																																																																															
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																																
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.76</td><td>68.20</td><td>-9.44</td><td>52.44</td><td>6.32</td><td>Peak</td><td>100</td><td>19</td></tr><tr><td>2</td><td>5700.00</td><td>60.52</td><td>105.20</td><td>-44.68</td><td>53.99</td><td>6.53</td><td>Peak</td><td>100</td><td>19</td></tr><tr><td>3</td><td>5720.00</td><td>75.02</td><td>110.80</td><td>-35.78</td><td>68.44</td><td>6.58</td><td>Peak</td><td>100</td><td>19</td></tr><tr><td>4</td><td>5725.00</td><td>84.34</td><td>122.20</td><td>-37.86</td><td>77.75</td><td>6.59</td><td>Peak</td><td>100</td><td>19</td></tr><tr><td>5</td><td>5925.00</td><td>58.28</td><td>68.20</td><td>-9.92</td><td>51.25</td><td>7.03</td><td>Peak</td><td>100</td><td>19</td></tr><tr><td>6</td><td>11490.00</td><td>46.02</td><td>54.00</td><td>-7.98</td><td>30.64</td><td>15.38</td><td>Average</td><td>100</td><td>102</td></tr><tr><td>7</td><td>11490.00</td><td>57.95</td><td>74.00</td><td>-16.05</td><td>42.57</td><td>15.38</td><td>Peak</td><td>100</td><td>102</td></tr><tr><td>8</td><td>17235.00</td><td>59.84</td><td>68.20</td><td>-8.36</td><td>41.58</td><td>18.26</td><td>Peak</td><td>100</td><td>118</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	58.76	68.20	-9.44	52.44	6.32	Peak	100	19	2	5700.00	60.52	105.20	-44.68	53.99	6.53	Peak	100	19	3	5720.00	75.02	110.80	-35.78	68.44	6.58	Peak	100	19	4	5725.00	84.34	122.20	-37.86	77.75	6.59	Peak	100	19	5	5925.00	58.28	68.20	-9.92	51.25	7.03	Peak	100	19	6	11490.00	46.02	54.00	-7.98	30.64	15.38	Average	100	102	7	11490.00	57.95	74.00	-16.05	42.57	15.38	Peak	100	102	8	17235.00	59.84	68.20	-8.36	41.58	18.26	Peak	100	118
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Modulation	ac VHT20		Test Freq. (MHz)		5745																																																																																											
Polarization	Vertical																																																																																															
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																																
 <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>59.04</td><td>68.20</td><td>-9.16</td><td>52.72</td><td>6.32</td><td>Peak</td><td>138</td><td>353</td></tr><tr><td>2</td><td>5700.00</td><td>61.92</td><td>105.20</td><td>-43.28</td><td>55.39</td><td>6.53</td><td>Peak</td><td>138</td><td>353</td></tr><tr><td>3</td><td>5720.00</td><td>76.36</td><td>110.80</td><td>-34.44</td><td>69.78</td><td>6.58</td><td>Peak</td><td>138</td><td>353</td></tr><tr><td>4</td><td>5725.00</td><td>86.53</td><td>122.20</td><td>-35.67</td><td>79.94</td><td>6.59</td><td>Peak</td><td>138</td><td>353</td></tr><tr><td>5</td><td>5925.00</td><td>58.57</td><td>68.20</td><td>-9.63</td><td>51.54</td><td>7.03</td><td>Peak</td><td>138</td><td>353</td></tr><tr><td>6</td><td>11490.00</td><td>47.15</td><td>54.00</td><td>-6.85</td><td>31.77</td><td>15.38</td><td>Average</td><td>100</td><td>159</td></tr><tr><td>7</td><td>11490.00</td><td>59.12</td><td>74.00</td><td>-14.88</td><td>43.74</td><td>15.38</td><td>Peak</td><td>100</td><td>159</td></tr><tr><td>8</td><td>17235.00</td><td>61.07</td><td>68.20</td><td>-7.13</td><td>42.81</td><td>18.26</td><td>Peak</td><td>100</td><td>160</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	59.04	68.20	-9.16	52.72	6.32	Peak	138	353	2	5700.00	61.92	105.20	-43.28	55.39	6.53	Peak	138	353	3	5720.00	76.36	110.80	-34.44	69.78	6.58	Peak	138	353	4	5725.00	86.53	122.20	-35.67	79.94	6.59	Peak	138	353	5	5925.00	58.57	68.20	-9.63	51.54	7.03	Peak	138	353	6	11490.00	47.15	54.00	-6.85	31.77	15.38	Average	100	159	7	11490.00	59.12	74.00	-14.88	43.74	15.38	Peak	100	159	8	17235.00	61.07	68.20	-7.13	42.81	18.26	Peak	100	160
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																							
1	5650.00	59.04	68.20	-9.16	52.72	6.32	Peak	138	353																																																																																							
2	5700.00	61.92	105.20	-43.28	55.39	6.53	Peak	138	353																																																																																							
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6	11490.00	47.15	54.00	-6.85	31.77	15.38	Average	100	159																																																																																							
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8	17235.00	61.07	68.20	-7.13	42.81	18.26	Peak	100	160																																																																																							
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	ac VHT20		Test Freq. (MHz)		5785				
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):25 Humidity(%):68									
									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5650.00	60.19	68.20	-8.01	53.87	6.32	Peak	100	285
2	5925.00	60.78	68.20	-7.42	53.75	7.03	Peak	100	285
3	11570.00	46.15	54.00	-7.85	30.77	15.38	Average	100	125
4	11570.00	58.16	74.00	-15.84	42.78	15.38	Peak	100	125
5	17355.00	60.49	68.20	-7.71	41.51	18.98	Peak	100	41

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	ac VHT20		Test Freq. (MHz)		5785																																																													
Polarization	Vertical																																																																	
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																		
<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>60.41</td><td>68.20</td><td>-7.79</td><td>54.09</td><td>6.32</td><td>Peak</td><td>139</td><td>356</td></tr><tr><td>2</td><td>5925.00</td><td>60.37</td><td>68.20</td><td>-7.83</td><td>53.34</td><td>7.03</td><td>Peak</td><td>139</td><td>356</td></tr><tr><td>3</td><td>11570.00</td><td>46.41</td><td>54.00</td><td>-7.59</td><td>31.03</td><td>15.38</td><td>Average</td><td>100</td><td>155</td></tr><tr><td>4</td><td>11570.00</td><td>58.29</td><td>74.00</td><td>-15.71</td><td>42.91</td><td>15.38</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>5</td><td>17355.00</td><td>60.86</td><td>68.20</td><td>-7.34</td><td>41.88</td><td>18.98</td><td>Peak</td><td>100</td><td>51</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	60.41	68.20	-7.79	54.09	6.32	Peak	139	356	2	5925.00	60.37	68.20	-7.83	53.34	7.03	Peak	139	356	3	11570.00	46.41	54.00	-7.59	31.03	15.38	Average	100	155	4	11570.00	58.29	74.00	-15.71	42.91	15.38	Peak	100	155	5	17355.00	60.86	68.20	-7.34	41.88	18.98	Peak	100	51
	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	60.41	68.20	-7.79	54.09	6.32	Peak	139	356																																																									
2	5925.00	60.37	68.20	-7.83	53.34	7.03	Peak	139	356																																																									
3	11570.00	46.41	54.00	-7.59	31.03	15.38	Average	100	155																																																									
4	11570.00	58.29	74.00	-15.71	42.91	15.38	Peak	100	155																																																									
5	17355.00	60.86	68.20	-7.34	41.88	18.98	Peak	100	51																																																									
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).																																																																		



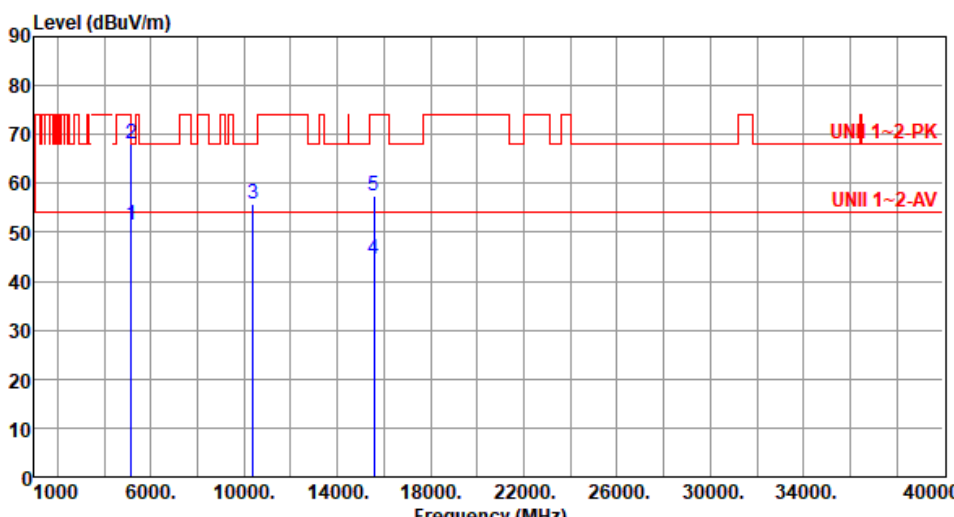
Modulation	ac VHT20	Test Freq. (MHz)	5825																																																																																										
Polarization	Horizontal																																																																																												
Test By :Brad Wu Temperature(°C):25 Humidity(%):68																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	5650.00	58.49	68.20	-9.71	52.17	6.32	Peak	100	2																																																																																				
2	5850.00	73.76	122.20	-48.44	66.99	6.77	Peak	100	2																																																																																				
3	5855.00	65.48	110.80	-45.32	58.68	6.80	Peak	100	2																																																																																				
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8	17475.00	61.59	68.20	-6.61	41.78	19.81	Peak	100	123																																																																																				
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	ac VHT20		Test Freq. (MHz)		5825																																																																																																																		
Polarization	Vertical																																																																																																																						
Test By :Brad Wu			Temperature(°C):25			Humidity(%):68																																																																																																																	
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.84</td><td>68.20</td><td>-9.36</td><td>52.52</td><td>6.32</td><td>Peak</td><td>138</td><td>352</td></tr><tr><td>2</td><td>5850.00</td><td>74.85</td><td>122.20</td><td>-47.35</td><td>68.08</td><td>6.77</td><td>Peak</td><td>138</td><td>352</td></tr><tr><td>3</td><td>5855.00</td><td>67.75</td><td>110.80</td><td>-43.05</td><td>60.95</td><td>6.80</td><td>Peak</td><td>138</td><td>352</td></tr><tr><td>4</td><td>5875.00</td><td>59.67</td><td>105.20</td><td>-45.53</td><td>52.79</td><td>6.88</td><td>Peak</td><td>138</td><td>352</td></tr><tr><td>5</td><td>5925.00</td><td>58.19</td><td>68.20</td><td>-10.01</td><td>51.16</td><td>7.03</td><td>Peak</td><td>138</td><td>352</td></tr><tr><td>6</td><td>11650.00</td><td>46.98</td><td>54.00</td><td>-7.02</td><td>31.81</td><td>15.17</td><td>Average</td><td>100</td><td>152</td></tr><tr><td>7</td><td>11650.00</td><td>59.02</td><td>74.00</td><td>-14.98</td><td>43.85</td><td>15.17</td><td>Peak</td><td>100</td><td>152</td></tr><tr><td>8</td><td>17475.00</td><td>62.48</td><td>68.20</td><td>-5.72</td><td>42.67</td><td>19.81</td><td>Peak</td><td>100</td><td>150</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5650.00	58.84	68.20	-9.36	52.52	6.32	Peak	138	352	2	5850.00	74.85	122.20	-47.35	68.08	6.77	Peak	138	352	3	5855.00	67.75	110.80	-43.05	60.95	6.80	Peak	138	352	4	5875.00	59.67	105.20	-45.53	52.79	6.88	Peak	138	352	5	5925.00	58.19	68.20	-10.01	51.16	7.03	Peak	138	352	6	11650.00	46.98	54.00	-7.02	31.81	15.17	Average	100	152	7	11650.00	59.02	74.00	-14.98	43.85	15.17	Peak	100	152	8	17475.00	62.48	68.20	-5.72	42.67	19.81	Peak	100	150
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																														
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Unwanted Emissions (Above 1GHz) for ac VHT40

Modulation	ac VHT40	Test Freq. (MHz)	5190																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):24 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>51.50</td><td>54.00</td><td>-2.50</td><td>45.19</td><td>6.31</td><td>Average</td><td>100</td><td>16</td></tr><tr><td>2</td><td>5150.00</td><td>68.00</td><td>74.00</td><td>-6.00</td><td>61.69</td><td>6.31</td><td>Peak</td><td>100</td><td>16</td></tr><tr><td>3</td><td>10380.00</td><td>55.86</td><td>68.20</td><td>-12.34</td><td>41.40</td><td>14.46</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>4</td><td>15570.00</td><td>44.59</td><td>54.00</td><td>-9.41</td><td>28.42</td><td>16.17</td><td>Average</td><td>100</td><td>6</td></tr><tr><td>5</td><td>15570.00</td><td>57.56</td><td>74.00</td><td>-16.44</td><td>41.39</td><td>16.17</td><td>Peak</td><td>100</td><td>6</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	51.50	54.00	-2.50	45.19	6.31	Average	100	16	2	5150.00	68.00	74.00	-6.00	61.69	6.31	Peak	100	16	3	10380.00	55.86	68.20	-12.34	41.40	14.46	Peak	100	5	4	15570.00	44.59	54.00	-9.41	28.42	16.17	Average	100	6	5	15570.00	57.56	74.00	-16.44	41.39	16.17	Peak	100	6
	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	51.50	54.00	-2.50	45.19	6.31	Average	100	16																																																						
2	5150.00	68.00	74.00	-6.00	61.69	6.31	Peak	100	16																																																						
3	10380.00	55.86	68.20	-12.34	41.40	14.46	Peak	100	5																																																						
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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).																																																															

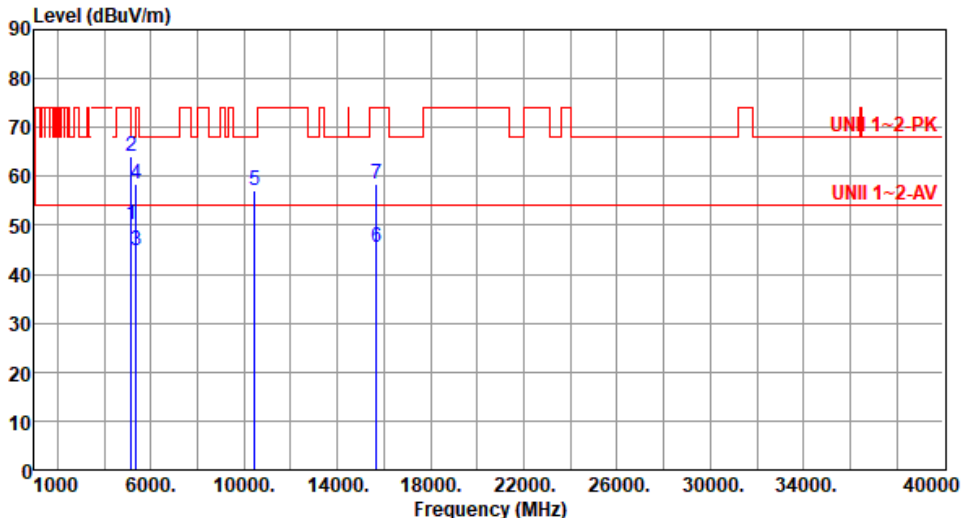


Modulation	ac VHT40		Test Freq. (MHz)		5190																																																																
Polarization	Vertical																																																																				
Test By :Brad Wu			Temperature(°C):24			Humidity(%):66																																																															
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>52.70</td><td>54.00</td><td>-1.30</td><td>46.39</td><td>6.31</td><td>Average</td><td>288</td><td>255</td></tr><tr><td>2</td><td>5150.00</td><td>69.93</td><td>74.00</td><td>-4.07</td><td>63.62</td><td>6.31</td><td>Peak</td><td>288</td><td>255</td></tr><tr><td>3</td><td>10380.00</td><td>57.12</td><td>68.20</td><td>-11.08</td><td>42.66</td><td>14.46</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>4</td><td>15570.00</td><td>45.85</td><td>54.00</td><td>-8.15</td><td>29.68</td><td>16.17</td><td>Average</td><td>100</td><td>33</td></tr><tr><td>5</td><td>15570.00</td><td>58.79</td><td>74.00</td><td>-15.21</td><td>42.62</td><td>16.17</td><td>Peak</td><td>100</td><td>33</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	52.70	54.00	-1.30	46.39	6.31	Average	288	255	2	5150.00	69.93	74.00	-4.07	63.62	6.31	Peak	288	255	3	10380.00	57.12	68.20	-11.08	42.66	14.46	Peak	100	38	4	15570.00	45.85	54.00	-8.15	29.68	16.17	Average	100	33	5	15570.00	58.79	74.00	-15.21	42.62	16.17	Peak	100	33
	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	52.70	54.00	-1.30	46.39	6.31	Average	288	255																																																												
2	5150.00	69.93	74.00	-4.07	63.62	6.31	Peak	288	255																																																												
3	10380.00	57.12	68.20	-11.08	42.66	14.46	Peak	100	38																																																												
4	15570.00	45.85	54.00	-8.15	29.68	16.17	Average	100	33																																																												
5	15570.00	58.79	74.00	-15.21	42.62	16.17	Peak	100	33																																																												
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	ac VHT40		Test Freq. (MHz)		5230																																																																																	
Polarization	Horizontal																																																																																					
Test By :Brad Wu 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>5150.00</td><td>49.33</td><td>54.00</td><td>-4.67</td><td>43.02</td><td>6.31</td><td>Average</td><td>100</td><td>2</td></tr><tr><td>2</td><td>5150.00</td><td>63.77</td><td>74.00</td><td>-10.23</td><td>57.46</td><td>6.31</td><td>Peak</td><td>100</td><td>2</td></tr><tr><td>3</td><td>5350.00</td><td>44.11</td><td>54.00</td><td>-9.89</td><td>38.39</td><td>5.72</td><td>Average</td><td>100</td><td>2</td></tr><tr><td>4</td><td>5350.00</td><td>57.06</td><td>74.00</td><td>-16.94</td><td>51.34</td><td>5.72</td><td>Peak</td><td>100</td><td>2</td></tr><tr><td>5</td><td>10460.00</td><td>56.08</td><td>68.20</td><td>-12.12</td><td>41.49</td><td>14.59</td><td>Peak</td><td>100</td><td>17</td></tr><tr><td>6</td><td>15690.00</td><td>44.46</td><td>54.00</td><td>-9.54</td><td>28.48</td><td>15.98</td><td>Average</td><td>100</td><td>12</td></tr><tr><td>7</td><td>15690.00</td><td>57.44</td><td>74.00</td><td>-16.56</td><td>41.46</td><td>15.98</td><td>Peak</td><td>100</td><td>12</td></tr></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	49.33	54.00	-4.67	43.02	6.31	Average	100	2	2	5150.00	63.77	74.00	-10.23	57.46	6.31	Peak	100	2	3	5350.00	44.11	54.00	-9.89	38.39	5.72	Average	100	2	4	5350.00	57.06	74.00	-16.94	51.34	5.72	Peak	100	2	5	10460.00	56.08	68.20	-12.12	41.49	14.59	Peak	100	17	6	15690.00	44.46	54.00	-9.54	28.48	15.98	Average	100	12	7	15690.00	57.44	74.00	-16.56	41.46	15.98	Peak	100	12
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																													
1	5150.00	49.33	54.00	-4.67	43.02	6.31	Average	100	2																																																																													
2	5150.00	63.77	74.00	-10.23	57.46	6.31	Peak	100	2																																																																													
3	5350.00	44.11	54.00	-9.89	38.39	5.72	Average	100	2																																																																													
4	5350.00	57.06	74.00	-16.94	51.34	5.72	Peak	100	2																																																																													
5	10460.00	56.08	68.20	-12.12	41.49	14.59	Peak	100	17																																																																													
6	15690.00	44.46	54.00	-9.54	28.48	15.98	Average	100	12																																																																													
7	15690.00	57.44	74.00	-16.56	41.46	15.98	Peak	100	12																																																																													
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).																																																																																						



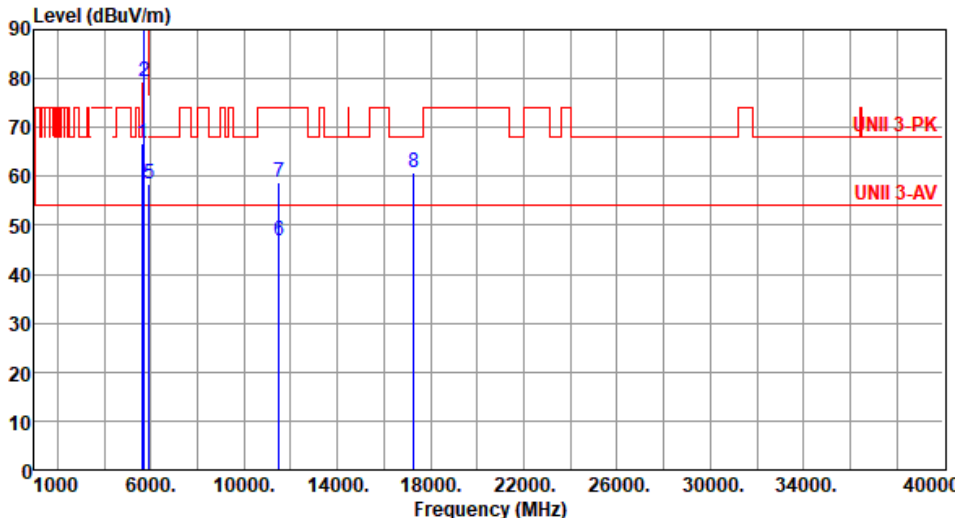
Modulation	ac VHT40		Test Freq. (MHz)		5230				
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):66									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.25	54.00	-3.75	43.94	6.31	Average	187	344
2	5150.00	64.17	74.00	-9.83	57.86	6.31	Peak	187	344
3	5350.00	44.92	54.00	-9.08	39.20	5.72	Average	187	344
4	5350.00	58.59	74.00	-15.41	52.87	5.72	Peak	187	344
5	10460.00	57.24	68.20	-10.96	42.65	14.59	Peak	100	29
6	15690.00	45.65	54.00	-8.35	29.67	15.98	Average	100	38
7	15690.00	58.60	74.00	-15.40	42.62	15.98	Peak	100	38

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	ac VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):66			
Level (dBuV/m) <			



Modulation	ac VHT40		Test Freq. (MHz)		5755				
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):66									
									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	66.86	68.20	-1.34	60.54	6.32	Peak	139	354
2	5700.00	79.44	105.20	-25.76	72.91	6.53	Peak	139	354
3	5720.00	89.31	110.80	-21.49	82.73	6.58	Peak	139	354
4	5725.00	92.14	122.20	-30.06	85.55	6.59	Peak	139	354
5	5925.00	58.61	68.20	-9.59	51.58	7.03	Peak	139	354
6	11510.00	46.98	54.00	-7.02	31.58	15.40	Average	100	148
7	11510.00	58.90	74.00	-15.10	43.50	15.40	Peak	100	148
8	17265.00	60.93	68.20	-7.27	42.60	18.33	Peak	100	154
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	ac VHT40		Test Freq. (MHz)		5795																																																																																											
Polarization	Horizontal																																																																																															
Test By :Brad Wu Temperature(°C):24 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>5650.00</td><td>61.72</td><td>68.20</td><td>-6.48</td><td>55.40</td><td>6.32</td><td>Peak</td><td>100</td><td>11</td></tr><tr><td>2</td><td>5850.00</td><td>74.65</td><td>122.20</td><td>-47.55</td><td>67.88</td><td>6.77</td><td>Peak</td><td>100</td><td>11</td></tr><tr><td>3</td><td>5855.00</td><td>73.68</td><td>110.80</td><td>-37.12</td><td>66.88</td><td>6.80</td><td>Peak</td><td>100</td><td>11</td></tr><tr><td>4</td><td>5875.00</td><td>67.88</td><td>105.20</td><td>-37.32</td><td>61.00</td><td>6.88</td><td>Peak</td><td>100</td><td>11</td></tr><tr><td>5</td><td>5925.00</td><td>59.73</td><td>68.20</td><td>-8.47</td><td>52.70</td><td>7.03</td><td>Peak</td><td>100</td><td>11</td></tr><tr><td>6</td><td>11590.00</td><td>43.77</td><td>54.00</td><td>-10.23</td><td>28.39</td><td>15.38</td><td>Average</td><td>100</td><td>124</td></tr><tr><td>7</td><td>11590.00</td><td>57.73</td><td>74.00</td><td>-16.27</td><td>42.35</td><td>15.38</td><td>Peak</td><td>100</td><td>124</td></tr><tr><td>8</td><td>17385.00</td><td>60.68</td><td>68.20</td><td>-7.52</td><td>41.39</td><td>19.29</td><td>Peak</td><td>100</td><td>128</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	61.72	68.20	-6.48	55.40	6.32	Peak	100	11	2	5850.00	74.65	122.20	-47.55	67.88	6.77	Peak	100	11	3	5855.00	73.68	110.80	-37.12	66.88	6.80	Peak	100	11	4	5875.00	67.88	105.20	-37.32	61.00	6.88	Peak	100	11	5	5925.00	59.73	68.20	-8.47	52.70	7.03	Peak	100	11	6	11590.00	43.77	54.00	-10.23	28.39	15.38	Average	100	124	7	11590.00	57.73	74.00	-16.27	42.35	15.38	Peak	100	124	8	17385.00	60.68	68.20	-7.52	41.39	19.29	Peak	100	128
	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	61.72	68.20	-6.48	55.40	6.32	Peak	100	11																																																																																							
2	5850.00	74.65	122.20	-47.55	67.88	6.77	Peak	100	11																																																																																							
3	5855.00	73.68	110.80	-37.12	66.88	6.80	Peak	100	11																																																																																							
4	5875.00	67.88	105.20	-37.32	61.00	6.88	Peak	100	11																																																																																							
5	5925.00	59.73	68.20	-8.47	52.70	7.03	Peak	100	11																																																																																							
6	11590.00	43.77	54.00	-10.23	28.39	15.38	Average	100	124																																																																																							
7	11590.00	57.73	74.00	-16.27	42.35	15.38	Peak	100	124																																																																																							
8	17385.00	60.68	68.20	-7.52	41.39	19.29	Peak	100	128																																																																																							
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	ac VHT40		Test Freq. (MHz)		5795																																																																																											
Polarization	Vertical																																																																																															
Test By :Brad Wu 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>62.18</td><td>68.20</td><td>-6.02</td><td>55.86</td><td>6.32</td><td>Peak</td><td>139</td><td>353</td></tr><tr><td>2</td><td>5850.00</td><td>75.93</td><td>122.20</td><td>-46.27</td><td>69.16</td><td>6.77</td><td>Peak</td><td>139</td><td>353</td></tr><tr><td>3</td><td>5855.00</td><td>75.84</td><td>110.80</td><td>-34.96</td><td>69.04</td><td>6.80</td><td>Peak</td><td>139</td><td>353</td></tr><tr><td>4</td><td>5875.00</td><td>70.79</td><td>105.20</td><td>-34.41</td><td>63.91</td><td>6.88</td><td>Peak</td><td>139</td><td>353</td></tr><tr><td>5</td><td>5925.00</td><td>59.91</td><td>68.20</td><td>-8.29</td><td>52.88</td><td>7.03</td><td>Peak</td><td>139</td><td>353</td></tr><tr><td>6</td><td>11590.00</td><td>46.90</td><td>54.00</td><td>-7.10</td><td>31.52</td><td>15.38</td><td>Average</td><td>100</td><td>142</td></tr><tr><td>7</td><td>11590.00</td><td>58.96</td><td>74.00</td><td>-15.04</td><td>43.58</td><td>15.38</td><td>Peak</td><td>100</td><td>142</td></tr><tr><td>8</td><td>17385.00</td><td>61.81</td><td>68.20</td><td>-6.39</td><td>42.52</td><td>19.29</td><td>Peak</td><td>100</td><td>153</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	62.18	68.20	-6.02	55.86	6.32	Peak	139	353	2	5850.00	75.93	122.20	-46.27	69.16	6.77	Peak	139	353	3	5855.00	75.84	110.80	-34.96	69.04	6.80	Peak	139	353	4	5875.00	70.79	105.20	-34.41	63.91	6.88	Peak	139	353	5	5925.00	59.91	68.20	-8.29	52.88	7.03	Peak	139	353	6	11590.00	46.90	54.00	-7.10	31.52	15.38	Average	100	142	7	11590.00	58.96	74.00	-15.04	43.58	15.38	Peak	100	142	8	17385.00	61.81	68.20	-6.39	42.52	19.29	Peak	100	153
	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	62.18	68.20	-6.02	55.86	6.32	Peak	139	353																																																																																							
2	5850.00	75.93	122.20	-46.27	69.16	6.77	Peak	139	353																																																																																							
3	5855.00	75.84	110.80	-34.96	69.04	6.80	Peak	139	353																																																																																							
4	5875.00	70.79	105.20	-34.41	63.91	6.88	Peak	139	353																																																																																							
5	5925.00	59.91	68.20	-8.29	52.88	7.03	Peak	139	353																																																																																							
6	11590.00	46.90	54.00	-7.10	31.52	15.38	Average	100	142																																																																																							
7	11590.00	58.96	74.00	-15.04	43.58	15.38	Peak	100	142																																																																																							
8	17385.00	61.81	68.20	-6.39	42.52	19.29	Peak	100	153																																																																																							
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).																																																																																																



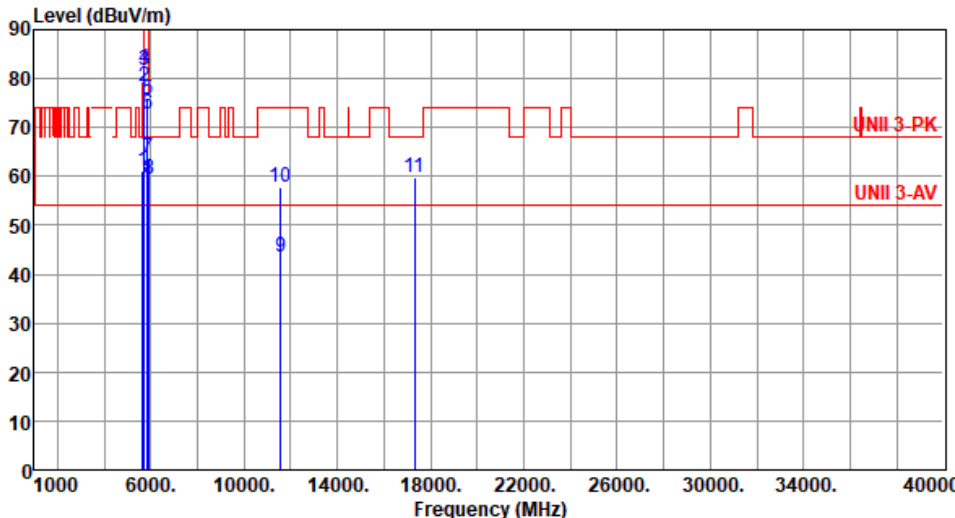
Unwanted Emissions (Above 1GHz) for ac VHT80

Modulation	ac VHT80		Test Freq. (MHz)		5210				
Polarization	Horizontal								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):66			
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	52.69	54.00	-1.31	46.38	6.31	Average	100	16
2	5150.00	66.72	74.00	-7.28	60.41	6.31	Peak	100	16
3	10420.00	55.84	68.20	-12.36	41.33	14.51	Peak	100	4
4	15630.00	44.31	54.00	-9.69	28.36	15.95	Average	100	13
5	15630.00	57.33	74.00	-16.67	41.38	15.95	Peak	100	13
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	ac VHT80		Test Freq. (MHz)		5210																																																													
Polarization	Vertical																																																																	
Test By :Brad Wu 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>5150.00</td><td>52.93</td><td>54.00</td><td>-1.07</td><td>46.62</td><td>6.31</td><td>Average</td><td>287</td><td>256</td></tr><tr><td>2</td><td>5150.00</td><td>67.75</td><td>74.00</td><td>-6.25</td><td>61.44</td><td>6.31</td><td>Peak</td><td>287</td><td>256</td></tr><tr><td>3</td><td>10420.00</td><td>56.99</td><td>68.20</td><td>-11.21</td><td>42.48</td><td>14.51</td><td>Peak</td><td>100</td><td>39</td></tr><tr><td>4</td><td>15630.00</td><td>45.37</td><td>54.00</td><td>-8.63</td><td>29.42</td><td>15.95</td><td>Average</td><td>100</td><td>43</td></tr><tr><td>5</td><td>15630.00</td><td>58.38</td><td>74.00</td><td>-15.62</td><td>42.43</td><td>15.95</td><td>Peak</td><td>100</td><td>43</td></tr></table>								Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	52.93	54.00	-1.07	46.62	6.31	Average	287	256	2	5150.00	67.75	74.00	-6.25	61.44	6.31	Peak	287	256	3	10420.00	56.99	68.20	-11.21	42.48	14.51	Peak	100	39	4	15630.00	45.37	54.00	-8.63	29.42	15.95	Average	100	43	5	15630.00	58.38	74.00	-15.62	42.43	15.95	Peak	100	43
	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	ac VHT80		Test Freq. (MHz)		5775				
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):66									
									
	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	61.14	68.20	-7.06	54.82	6.32	Peak	100	287
2	5700.00	78.26	105.20	-26.94	71.73	6.53	Peak	100	287
3	5720.00	81.71	110.80	-29.09	75.13	6.58	Peak	100	287
4	5725.00	82.15	122.20	-40.05	75.56	6.59	Peak	100	287
5	5850.00	75.85	122.20	-46.35	69.08	6.77	Peak	100	287
6	5855.00	72.66	110.80	-38.14	65.86	6.80	Peak	100	287
7	5875.00	63.69	105.20	-41.51	56.81	6.88	Peak	100	287
8	5925.00	59.35	68.20	-8.85	52.32	7.03	Peak	100	287
9	11550.00	43.59	54.00	-10.41	28.20	15.39	Average	100	130
10	11550.00	57.67	74.00	-16.33	42.28	15.39	Peak	100	130
11	17325.00	59.87	68.20	-8.33	41.19	18.68	Peak	100	115

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	ac VHT80		Test Freq. (MHz)		5775				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):66			
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5650.00	62.60	68.20	-5.60	56.28	6.32	Peak	139	355
2	5700.00	80.89	105.20	-24.31	74.36	6.53	Peak	139	355
3	5720.00	85.49	110.80	-25.31	78.91	6.58	Peak	139	355
4	5725.00	85.79	122.20	-36.41	79.20	6.59	Peak	139	355
5	5850.00	78.65	122.20	-43.55	71.88	6.77	Peak	139	355
6	5855.00	75.52	110.80	-35.28	68.72	6.80	Peak	139	355
7	5875.00	66.37	105.20	-38.83	59.49	6.88	Peak	139	355
8	5925.00	58.89	68.20	-9.31	51.86	7.03	Peak	139	355
9	11550.00	46.72	54.00	-7.28	31.33	15.39	Average	100	158
10	11550.00	57.74	74.00	-16.26	42.35	15.39	Peak	100	158
11	17325.00	61.07	68.20	-7.13	42.39	18.68	Peak	100	154

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

*Factor includes antenna factor , cable loss and amplifier gain

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

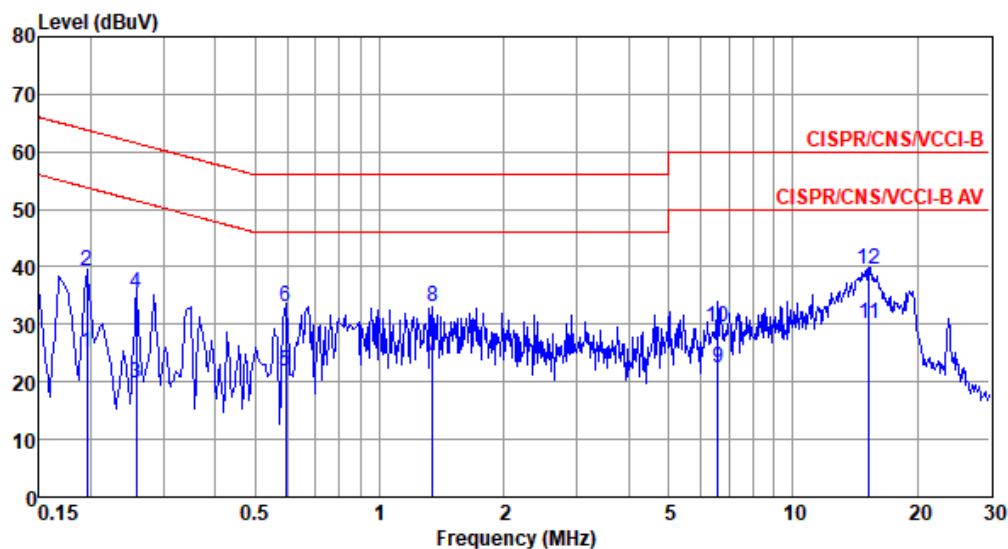
Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-1.38	-1.52	-1.54	-1.67
T20°CVmin	-1.32	-0.77	-0.94	-1.34
T50°CVnom	-8.18	-7.70	-8.31	-7.83
T40°CVnom	-5.99	-5.26	-5.44	-5.71
T30°CVnom	-3.83	-3.49	-4.07	-3.98
T20°CVnom	-1.69	-1.88	-1.88	-1.79
T10°CVnom	6.06	6.26	5.96	6.51
T0°CVnom	9.61	9.86	10.23	9.44
T-10°CVnom	13.14	13.67	13.53	13.24
T-20°CVnom	15.59	15.49	15.78	16.05
T-30°CVnom	16.79	17.29	16.88	17.17
Vnom [V]: 3.7	Vmax [V]: 4.255		Vmin [V]: 3.145	
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	-0.99	-1.45	-1.29	-1.61
T20°CVmin	-0.68	-0.73	-0.32	-0.29
T50°CVnom	-7.06	-6.21	-7.27	-7.07
T40°CVnom	-4.49	-4.70	-4.80	-5.11
T30°CVnom	-2.62	-2.74	-2.05	-2.56
T20°CVnom	-2.10	-2.09	-1.69	-1.65
T10°CVnom	5.63	5.39	6.17	6.13
T0°CVnom	9.15	9.09	9.31	9.76
T-10°CVnom	10.92	11.05	11.69	11.20
T-20°CVnom	14.72	14.95	14.60	14.95
T-30°CVnom	15.86	16.00	15.59	16.25
Vnom [V]: 3.7	Vmax [V]: 4.255		Vmin [V]: 3.145	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	



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

Test by : Joe Liao Temperature: 22°C Humidity: 61%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.195	25.12	53.80	-28.68	15.14	9.68	0.08	0.22	Average
2	0.195	39.23	63.80	-24.57	29.25	9.68	0.08	0.22	QP
3	0.258	19.73	51.51	-31.78	9.70	9.68	0.08	0.27	Average
4	0.258	35.35	61.51	-26.16	25.32	9.68	0.08	0.27	QP
5	0.592	21.74	46.00	-24.26	11.60	9.67	0.11	0.36	Average
6	0.592	33.13	56.00	-22.87	22.99	9.67	0.11	0.36	QP
7	1.345	24.51	46.00	-21.49	14.27	9.68	0.18	0.38	Average
8	1.345	32.96	56.00	-23.04	22.72	9.68	0.18	0.38	QP
9	6.592	22.35	50.00	-27.65	11.86	9.72	0.34	0.43	Average
10	6.592	29.47	60.00	-30.53	18.98	9.72	0.34	0.43	QP
11*	15.307	29.98	50.00	-20.02	19.15	9.73	0.57	0.53	Average
12	15.307	39.69	60.00	-20.31	28.86	9.73	0.57	0.53	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).

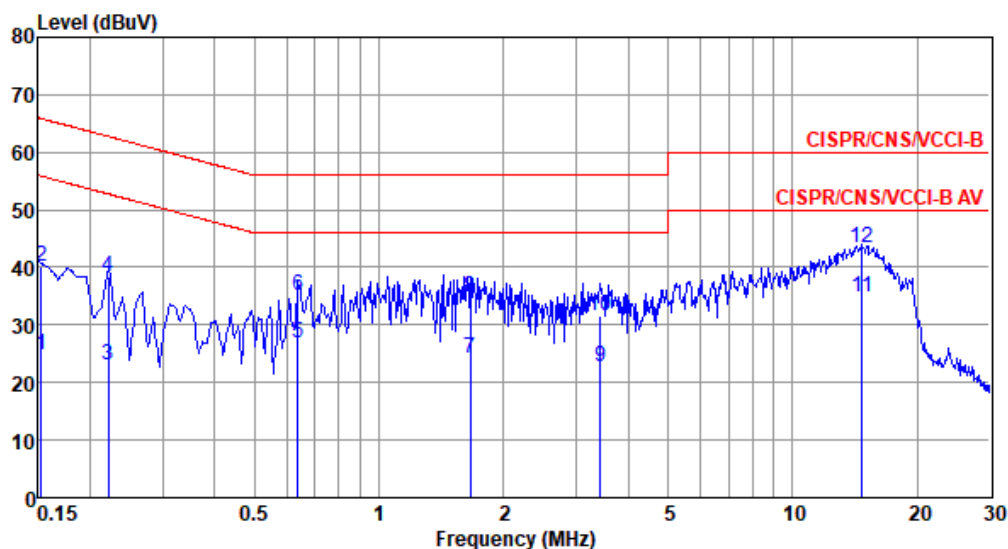


Modulation	11a	Test Freq. (MHz)	5200
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 22°C

Humidity: 61%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.152	24.88	55.87	-30.99	15.03	9.61	0.08	0.16	Average
2	0.152	40.24	65.87	-25.63	30.39	9.61	0.08	0.16	QP
3	0.222	23.05	52.74	-29.69	13.18	9.61	0.08	0.18	Average
4	0.222	38.26	62.74	-24.48	28.39	9.61	0.08	0.18	QP
5	0.637	26.81	46.00	-19.19	16.84	9.61	0.12	0.24	Average
6	0.637	35.12	56.00	-20.88	25.15	9.61	0.12	0.24	QP
7	1.662	24.22	46.00	-21.78	14.12	9.62	0.19	0.29	Average
8	1.662	34.92	56.00	-21.08	24.82	9.62	0.19	0.29	QP
9	3.436	22.82	46.00	-23.18	12.65	9.64	0.21	0.32	Average
10	3.436	31.73	56.00	-24.27	21.56	9.64	0.21	0.32	QP
11*	14.750	34.85	50.00	-15.15	24.08	9.75	0.55	0.47	Average
12	14.750	43.52	60.00	-16.48	32.75	9.75	0.55	0.47	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).

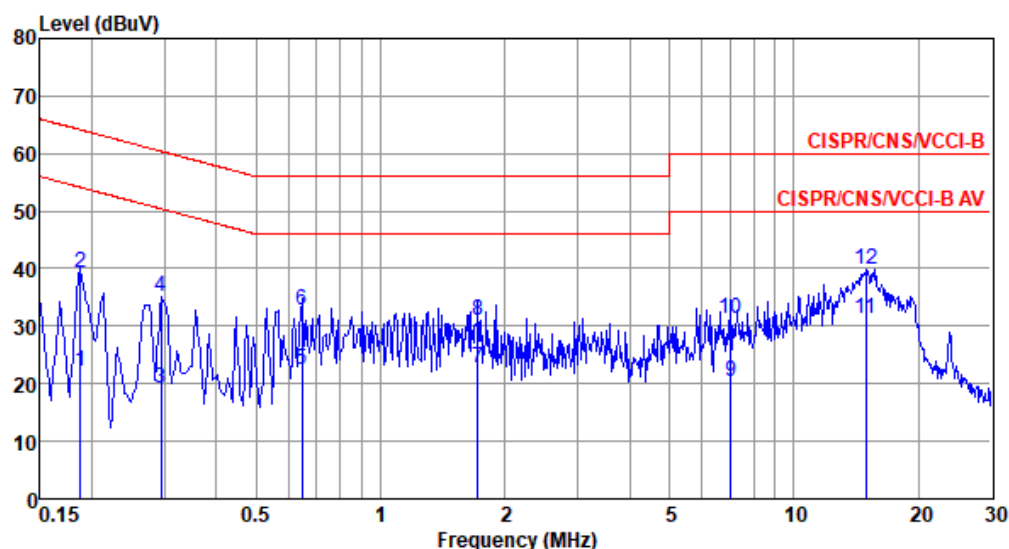


Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Line		

Test by : Joe Liao

Temperature: 22°C

Humidity: 61%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.187	22.00	54.15	-32.15	12.02	9.68	0.08	0.22	Average
2	0.187	39.39	64.15	-24.76	29.41	9.68	0.08	0.22	QP
3	0.294	19.32	50.41	-31.09	9.27	9.67	0.08	0.30	Average
4	0.294	35.05	60.41	-25.36	25.00	9.67	0.08	0.30	QP
5	0.644	22.36	46.00	-23.64	12.19	9.68	0.12	0.37	Average
6	0.644	32.62	56.00	-23.38	22.45	9.68	0.12	0.37	QP
7	1.716	22.80	46.00	-23.20	12.53	9.69	0.19	0.39	Average
8	1.716	30.98	56.00	-25.02	20.71	9.69	0.19	0.39	QP
9	7.025	20.43	50.00	-29.57	9.92	9.72	0.36	0.43	Average
10	7.025	31.18	60.00	-28.82	20.67	9.72	0.36	0.43	QP
11*	14.907	31.17	50.00	-18.83	20.36	9.73	0.56	0.52	Average
12	14.907	39.90	60.00	-20.10	29.09	9.73	0.56	0.52	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).



AC Power Line Conducted Emissions

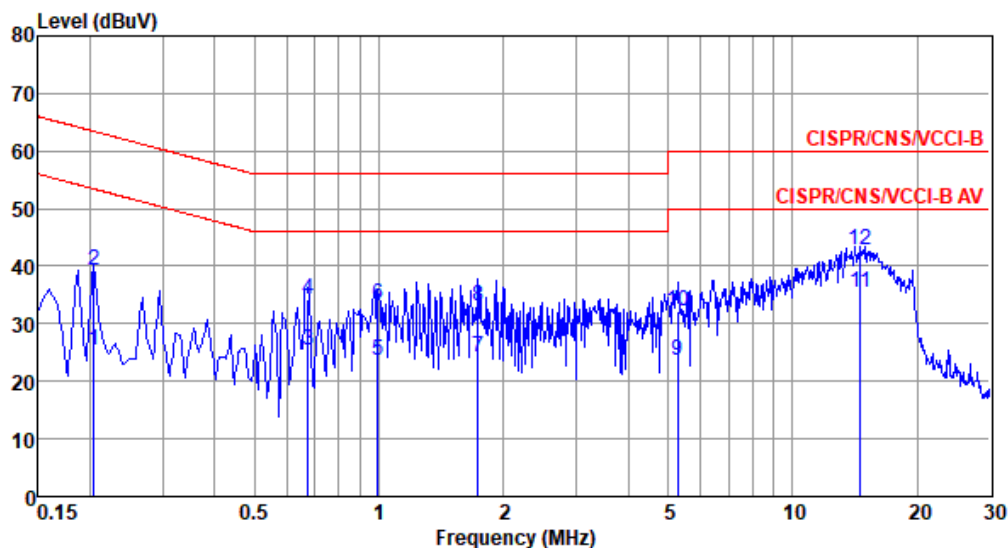
Appendix F

Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 22°C

Humidity: 61%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.204	25.28	53.45	-28.17	15.41	9.61	0.08	0.18	Average
2	0.204	39.40	63.45	-24.05	29.53	9.61	0.08	0.18	QP
3	0.672	25.33	46.00	-20.67	15.35	9.61	0.13	0.24	Average
4	0.672	34.13	56.00	-21.87	24.15	9.61	0.13	0.24	QP
5	0.994	23.49	46.00	-22.51	13.44	9.61	0.16	0.28	Average
6	0.994	33.28	56.00	-22.72	23.23	9.61	0.16	0.28	QP
7	1.734	24.26	46.00	-21.74	14.15	9.62	0.19	0.30	Average
8	1.734	33.13	56.00	-22.87	23.02	9.62	0.19	0.30	QP
9	5.277	23.62	50.00	-26.38	13.34	9.66	0.28	0.34	Average
10	5.277	32.17	60.00	-27.83	21.89	9.66	0.28	0.34	QP
11*	14.594	35.53	50.00	-14.47	24.78	9.74	0.55	0.46	Average
12	14.594	42.90	60.00	-17.10	32.15	9.74	0.55	0.46	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).