

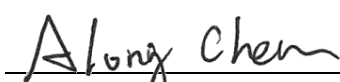
FCC Test Report

FCC ID : JVPVS20R
Equipment : InstaShow Host
Model No. : VS20R
Brand Name : BenQ
Applicant : BenQ Corporation
Address : 16 Jihu Road, Neihu, Taipei 114, Taiwan
Standard : 47 CFR FCC Part 15.407
Received Date : Dec. 27, 2022
Tested Date : Feb. 08 ~ Feb. 22, 2023

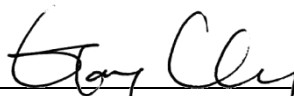
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Appendix A. Emission Bandwidth

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Release Record

Report No.	Version	Description	Issued Date
FR2D2701AN	Rev. 01	Initial issue	Mar. 14, 2023
FR2D2701AN	Rev. 02	Adding information of embed Wi-Fi modules	Mar. 28, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.402MHz 45.56 (Margin -12.25dB) - QP	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 53.84 (Margin -0.16dB) - 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: 25.50 5725~5850MHz: 26.96	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-15
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-15
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	2	MCS 0-9
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-31
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-31
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	4	MCS 0-9
Note 1: OFDM- BPSK, QPSK, 16QAM, 64QAM and 256QAM modulation. Note 2: The conducted power of single chain is same for 2TX and 4TX operating mode. Therefore, 4TX configuration is chosen for final testing. Note 3: The device uses 2 Wi-Fi modules. Module 1- CWD-07M7615-00 (Wi-Fi Chip: MT7615, TX / RX) Module 2-BL-M8811CU2 (Wi-Fi Chip: RTL8811, RX only)					

1.1.2 Antenna Details

For module 1

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)	
					5150~5250	5725~5850
1	Invax	AN2450-5025BRS	Dipole	RP-SMA(M)	3.23	4.74

For module 2

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)	
					5150~5250	5725~5850
1	VSO	JR7Q00242	PIFA	I-PEX	1.4	2.6

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: Zhuzhou Dachuan Electronic Technology Co., Ltd. Model: DCT36W120300ZZ-D0 I/P: 100-240Vac, 50/60Hz, 1.0A max O/P: 12Vdc, 3.0A, 36.0W Power Line: 1.5m non-shielded without core
2	HDMI cable	0.83m shielded without core

1.1.5 Channel List

802.11 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	-	-

1.1.6 Test Tool and Duty Cycle

Test Tool	Tera Term, Version: 4.74		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ac VHT20	86.86%	0.61
	ac VHT40	85.19%	0.70
	ac VHT80	86.51%	0.63

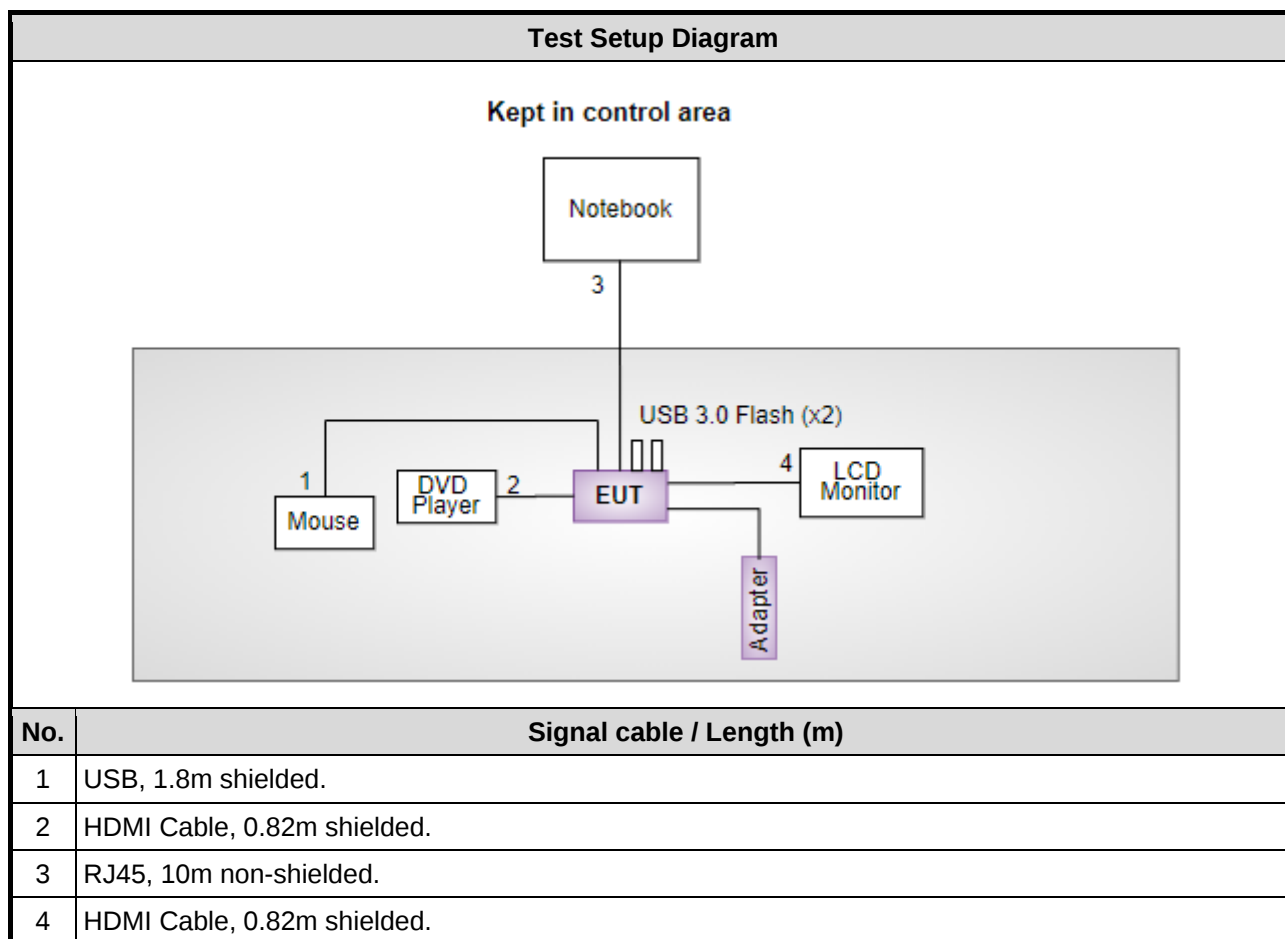
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
ac VHT20	5180	22
ac VHT20	5200	26
ac VHT20	5240	34
ac VHT20	5745	40
ac VHT20	5785	40
ac VHT20	5825	34
ac VHT40	5190	13
ac VHT40	5230	27
ac VHT40	5755	32
ac VHT40	5795	34
ac VHT80	5210	13
ac VHT80	5775	20

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	DVD Player	SONY	BDP-S190	DoC	---
3	Mouse	DELL	MS111-L	---	---
4	LCD Monitor	ASUS(27")	MX27UCS	---	---
5	USB 3.0 Flash	Transcend	JetFlash 700	---	---
6	USB 3.0 Flash	Transcend	JetFlash 700	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Feb. 22, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 02, 2023	Jan. 01, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	01	May 10, 2022	May 09, 2023
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Feb. 08 ~ Feb. 22, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 15, 2022	Dec. 14, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980897	Aug. 01, 2022	Jul. 31, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 23, 2022	Sep. 22, 2023
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 23, 2022	Sep. 22, 2023
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 23, 2022	Sep. 22, 2023
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 23, 2022	Sep. 22, 2023
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 23, 2022	Sep. 22, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Feb. 21 ~ Feb. 22, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 08, 2022	Apr. 07, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 22, 2022	Jun. 21, 2023
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 09, 2022	Dec. 08, 2023
Measurement Software	Sporton	SENSE-15407_NII	V5.10.8.9	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

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

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISSED#: 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	ac VHT20	5240	MCS 0	---
Radiated Emissions ≤1GHz	ac VHT20	5240	MCS 0	---
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	ac VHT20 ac VHT40 ac VHT80	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 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	ac VHT20	5745	MCS 0	---
Radiated Emissions ≤1GHz	ac VHT20	5745	MCS 0	---
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	ac VHT20 ac VHT40 ac VHT80	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	---
Frequency Stability	Un-modulation	5785	---	---
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

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

3.1.2 Test Procedures

26dB Bandwidth

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

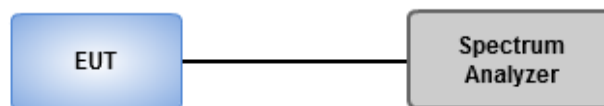
Occupied Bandwidth

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

6dB Bandwidth

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

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	21~22°C / 66~67%	Tested By	Akun Chung
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

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

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

3.2.2 Test Procedures

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

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

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	21~22°C / 66~67%	Tested By	Akun Chung
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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

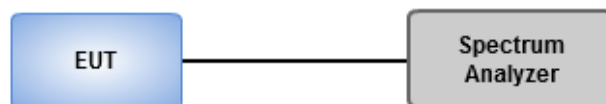
Duty cycle $\geq 98\%$

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	21~22°C / 66~67%	Tested By	Akun Chung
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

3.4.2 Test Procedures

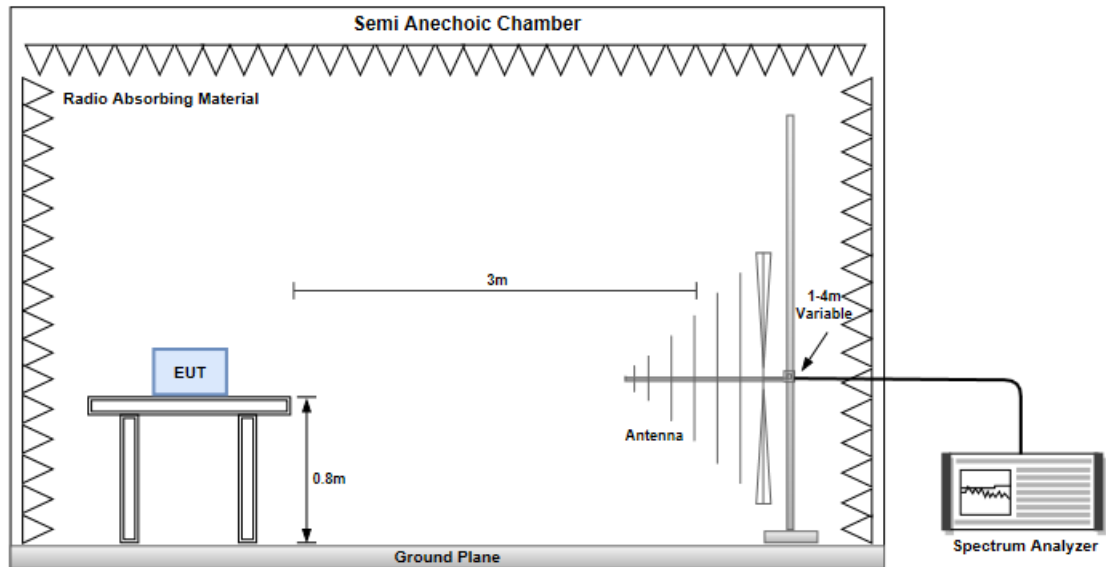
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

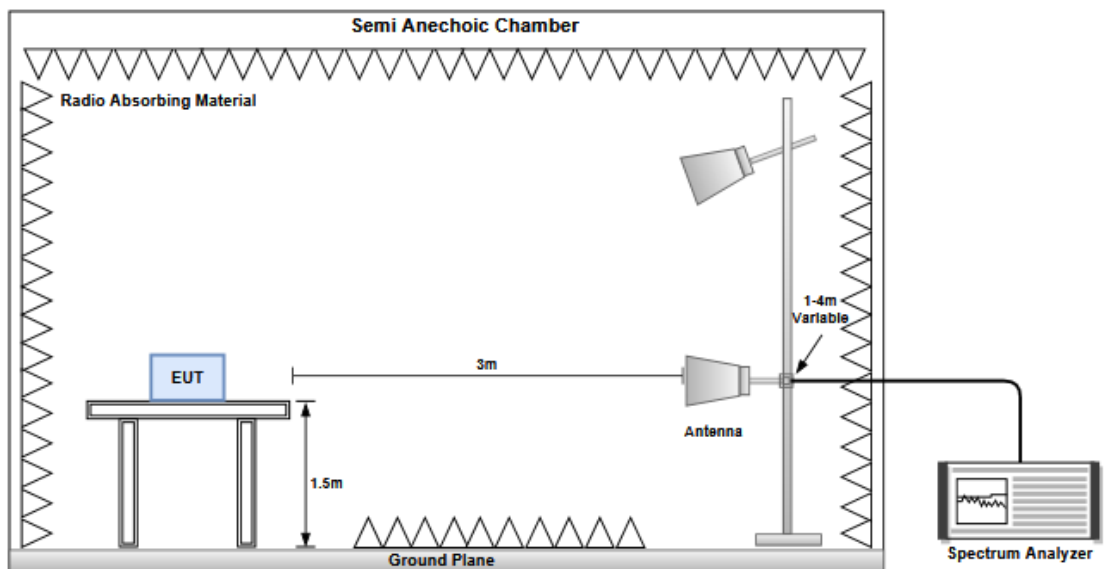
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

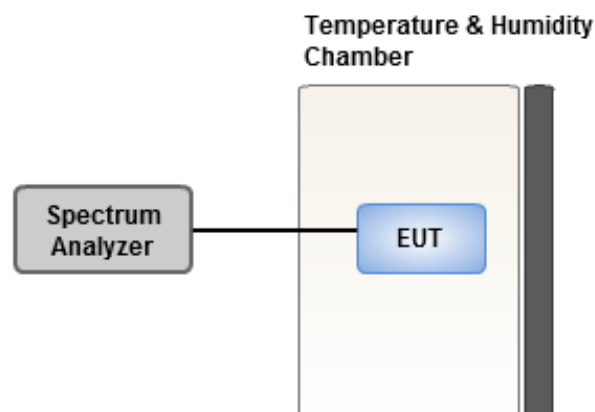
3.5.1 Limit of Frequency Stability

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

3.5.2 Test Procedures

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

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	21~22°C / 66~67%	Tested By	Akun Chung
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

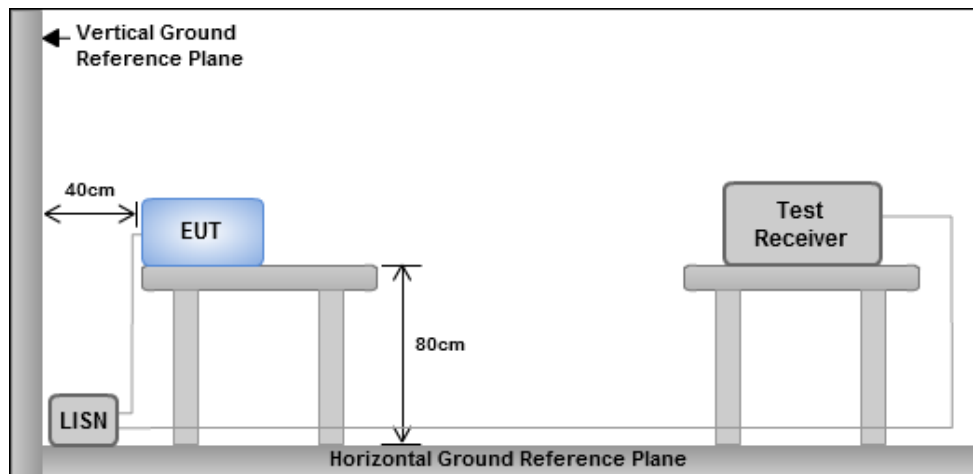
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



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

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

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

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

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

Linkou

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District, New Taipei City, Taiwan
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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
ac20_20MHz_Nss4,(MCS0)_4TX	35.31M	18.291M	18M3D1D	19.8M	17.511M
ac40_40MHz_Nss4,(MCS0)_4TX	40.656M	36.282M	36M3D1D	39.6M	35.922M
ac80_80MHz_Nss4,(MCS0)_4TX	80.784M	75.082M	75M1D1D	79.992M	74.963M
5.725-5.85GHz	-	-	-	-	-
ac20_20MHz_Nss4,(MCS0)_4TX	15.114M	19.58M	19M6D1D	13.794M	17.721M
ac40_40MHz_Nss4,(MCS0)_4TX	35.112M	37.541M	37M5D1D	34.98M	36.102M
ac80_80MHz_Nss4,(MCS0)_4TX	74.976M	74.963M	75M0D1D	72.336M	74.843M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Minimum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
ac20_20MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.196M	17.631M	19.998M	17.541M	19.8M	17.541M	19.998M	17.511M
5200MHz	Pass	Inf	20.46M	17.721M	19.998M	17.571M	19.866M	17.541M	20.196M	17.571M
5240MHz	Pass	Inf	35.31M	18.291M	25.938M	17.721M	26.268M	17.691M	33.924M	17.961M
5745MHz	Pass	500k	15.048M	18.291M	15.114M	19.04M	15.048M	18.201M	15.114M	19.01M
5785MHz	Pass	500k	13.794M	18.231M	15.114M	19.58M	14.982M	19.49M	15.048M	19.43M
5825MHz	Pass	500k	15.048M	17.841M	15.114M	17.811M	15.048M	17.721M	15.114M	17.961M
ac40_40MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	35.922M	40.524M	36.282M	39.732M	36.042M	39.6M	36.042M
5230MHz	Pass	Inf	39.864M	36.162M	40.656M	36.222M	39.732M	36.042M	39.6M	36.102M
5755MHz	Pass	500k	34.98M	36.102M	35.112M	36.582M	35.112M	36.342M	35.112M	36.462M
5795MHz	Pass	500k	34.98M	36.702M	35.112M	37.121M	35.112M	36.702M	34.98M	37.541M
ac80_80MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.784M	74.963M	80.256M	75.082M	79.992M	74.963M	80.52M	74.963M
5775MHz	Pass	500k	72.336M	74.963M	73.656M	74.963M	72.6M	74.843M	74.976M	74.963M

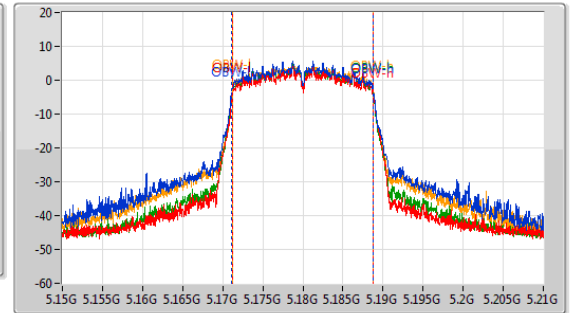
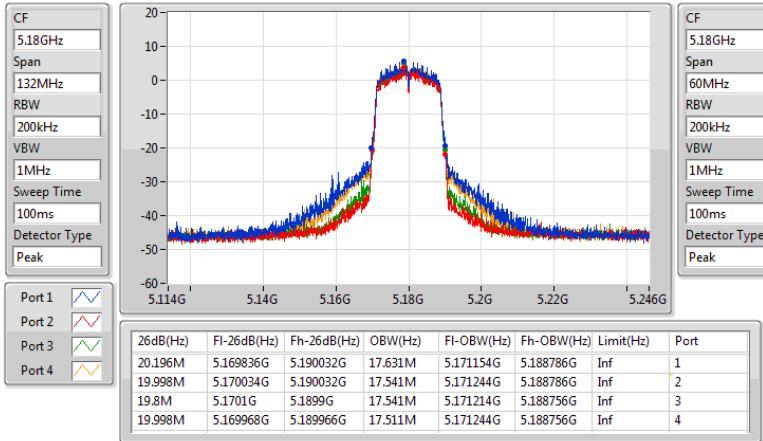
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth



5.15-5.25GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

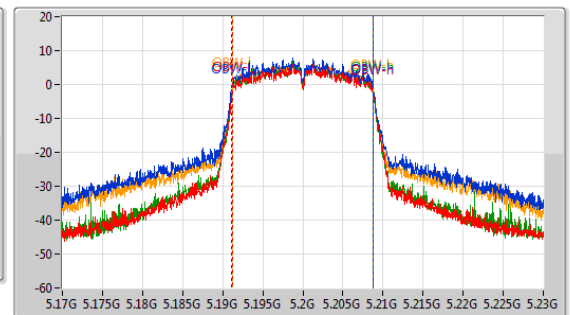
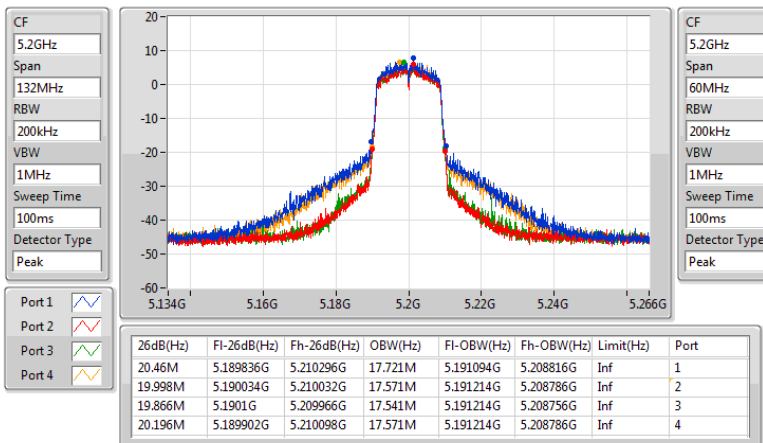
5180MHz



5.15-5.25GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

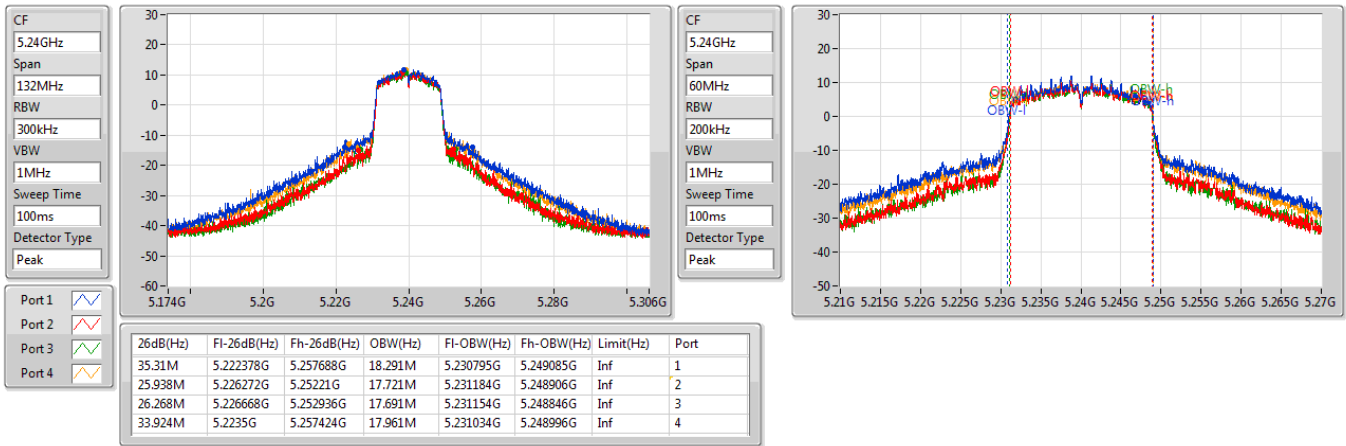
5200MHz



5.15-5.25GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

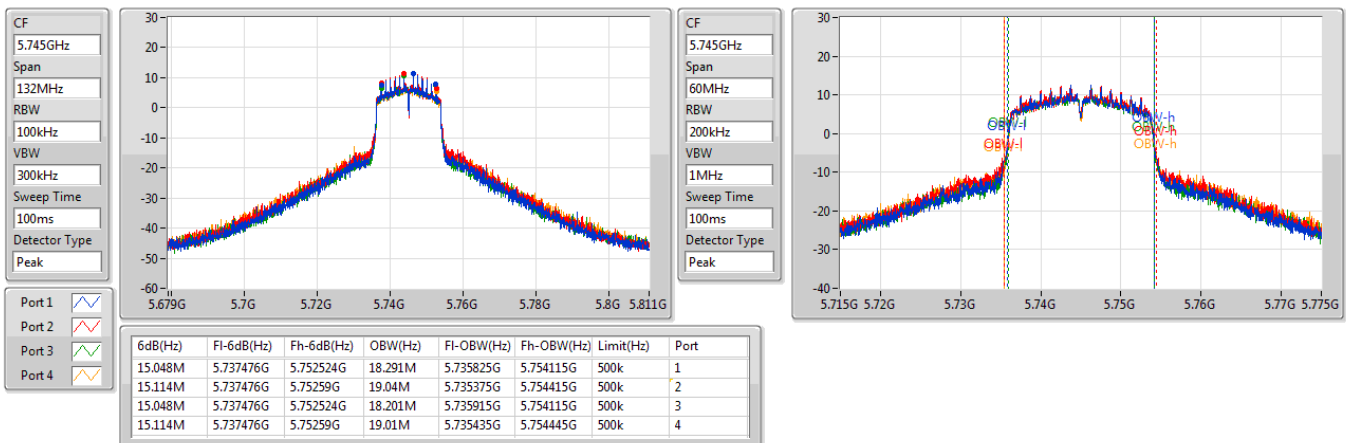
5240MHz



5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

5745MHz



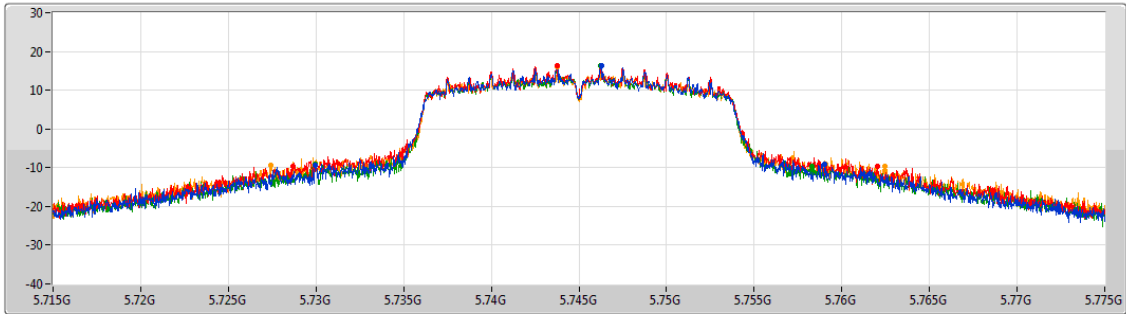


5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

5745MHz

CF
5.745GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



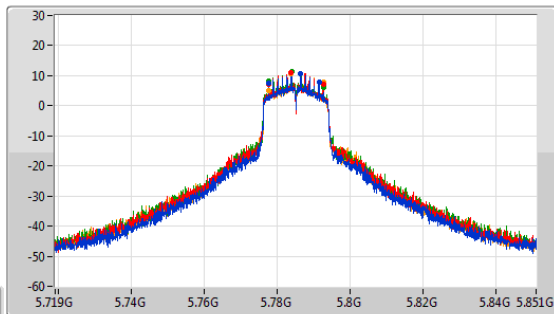
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
29.07M	5.72997G	5.75904G	Inf	1
33.33M	5.72871G	5.76204G	Inf	2
28.32M	5.72997G	5.75829G	Inf	3
35.01M	5.72745G	5.76246G	Inf	4

5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

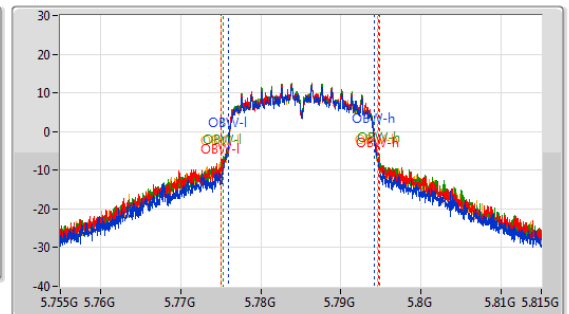
5785MHz

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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
13.794M	5.777608G	5.791402G	18.231M	5.775945G	5.794175G	500k	1
15.114M	5.777542G	5.792656G	19.58M	5.775075G	5.794655G	500k	2
14.982M	5.777608G	5.79259G	19.49M	5.775285G	5.794775G	500k	3
15.048M	5.777542G	5.79259G	19.43M	5.775075G	5.794505G	500k	4

CF
5.785GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



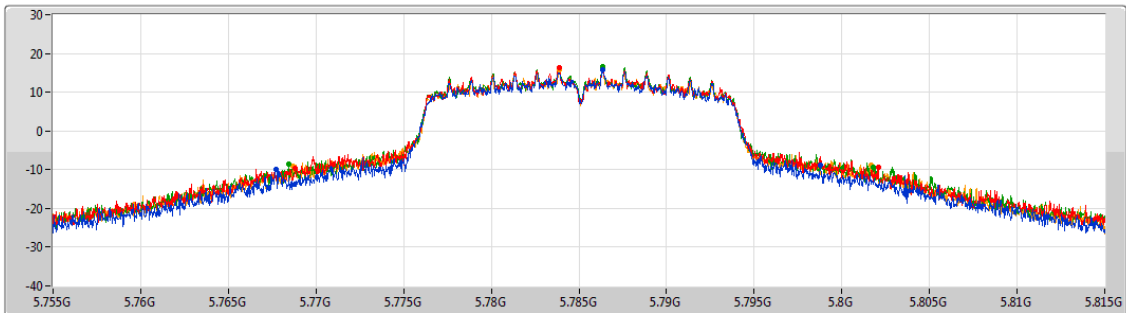


5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

5785MHz

CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



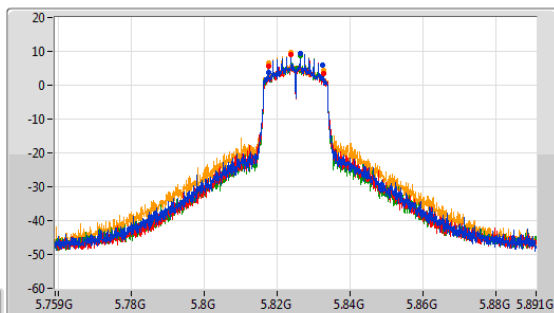
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
31.05M	5.76775G	5.7988G	Inf	1
33.24M	5.76883G	5.80207G	Inf	2
33.33M	5.76844G	5.80177G	Inf	3
33M	5.76868G	5.80168G	Inf	4

5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

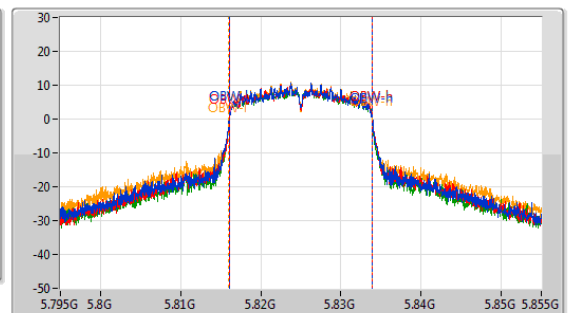
5825MHz

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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.048M	5.817476G	5.832524G	17.841M	5.816064G	5.833906G	500k	1
15.114M	5.817476G	5.83259G	17.811M	5.816124G	5.833936G	500k	2
15.048M	5.817476G	5.832524G	17.721M	5.816124G	5.833846G	500k	3
15.114M	5.817476G	5.83259G	17.961M	5.816004G	5.833966G	500k	4

CF
5.825GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak

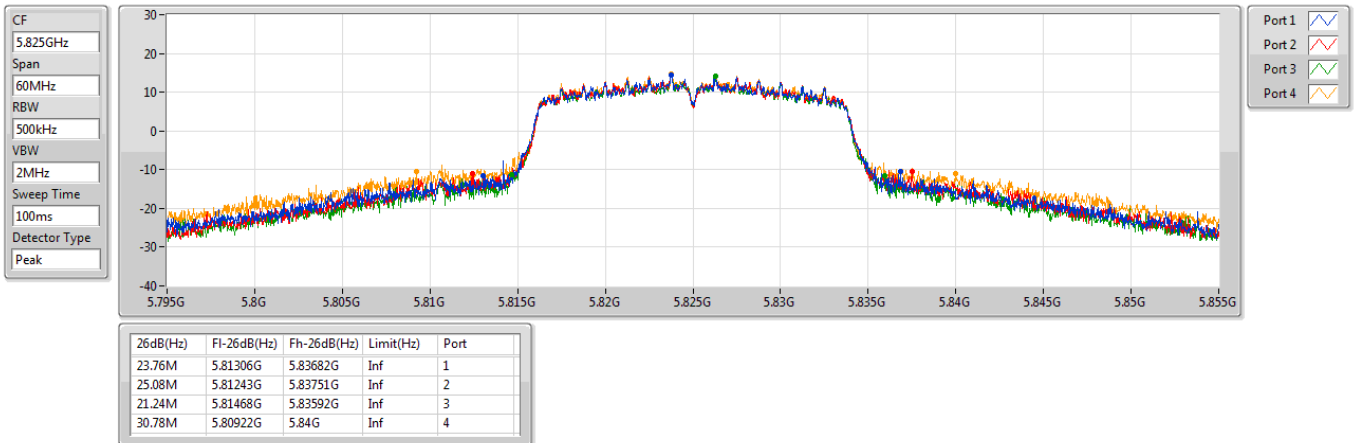




5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

EBW

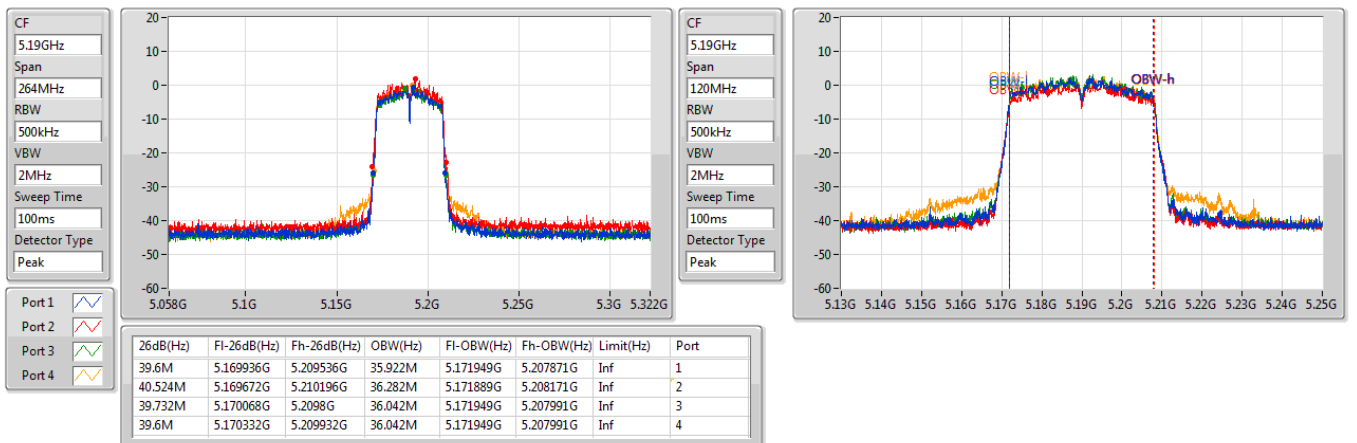
5825MHz



5.15-5.25GHz_ac40_40MHz_Nss4,(MCS0)_4TX

EBW

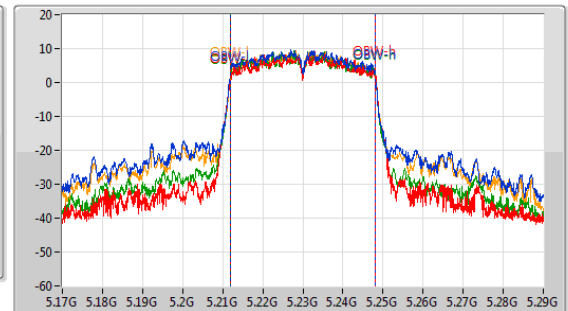
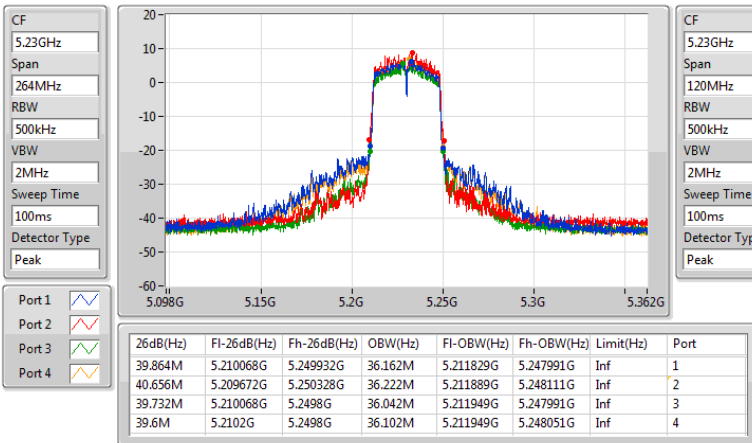
5190MHz



5.15-5.25GHz_ac40_40MHz_Nss4,(MCS0)_4TX

EBW

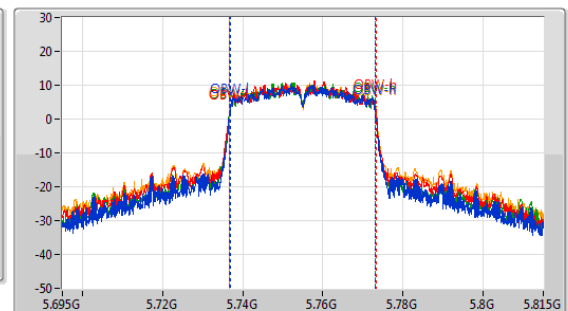
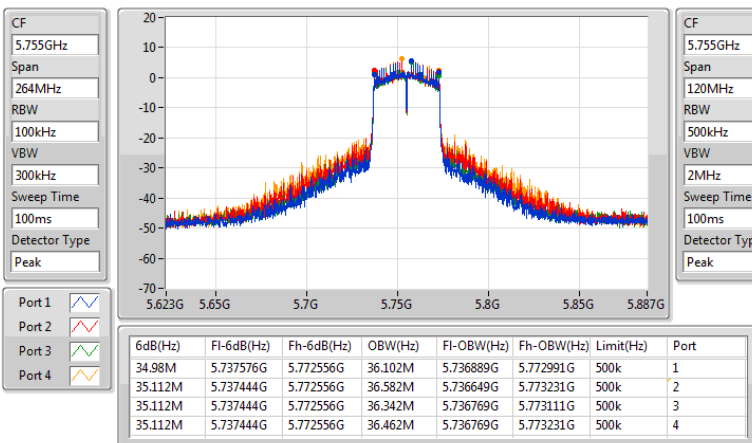
5230MHz



5.725-5.85GHz_ac40_40MHz_Nss4,(MCS0)_4TX

EBW

5755MHz

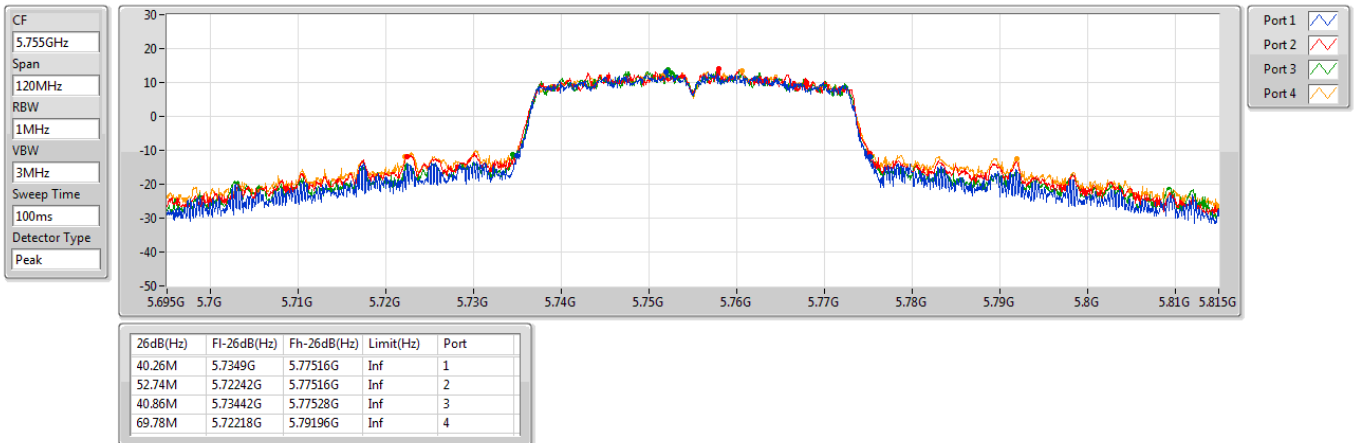




5.725-5.85GHz_ac40_40MHz_Nss4,(MCS0)_4TX

EBW

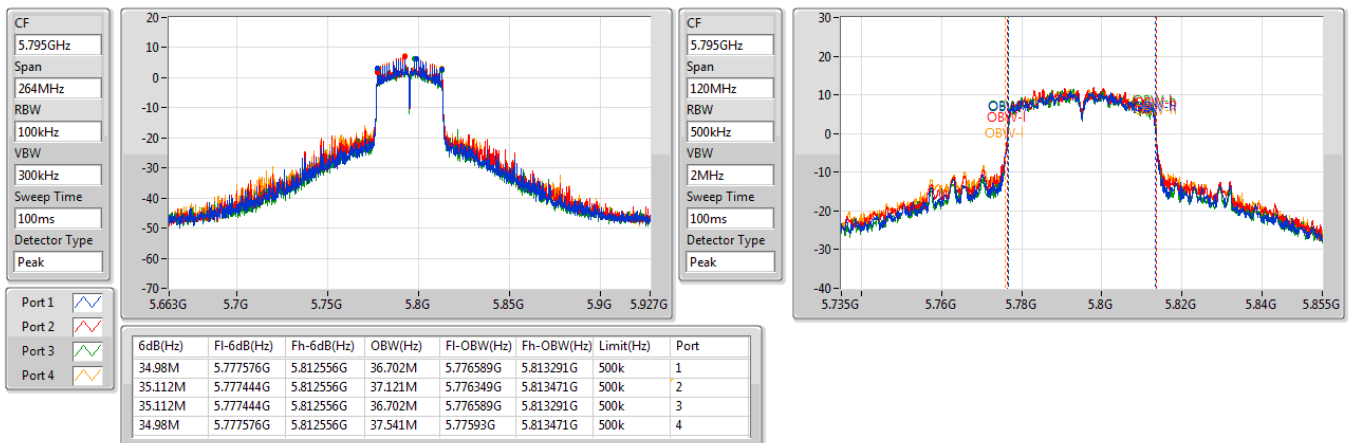
5755MHz



5.725-5.85GHz_ac40_40MHz_Nss4,(MCS0)_4TX

EBW

5795MHz

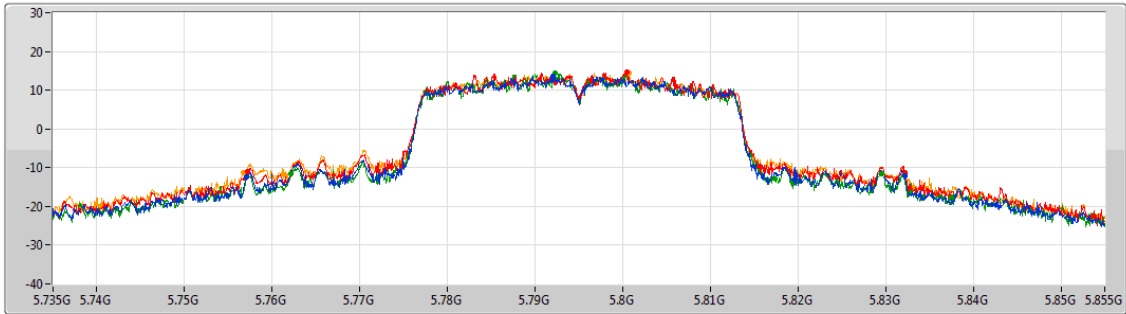


5.725-5.85GHz_ac40_40MHz_Nss4,(MCS0)_4TX

EBW

5795MHz

CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

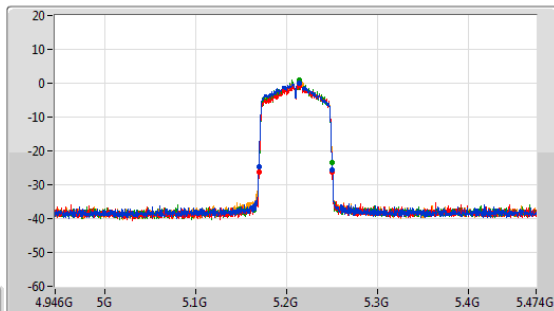
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
75.18M	5.75702G	5.8322G	Inf	1
75.06M	5.75714G	5.8322G	Inf	2
67.38M	5.76218G	5.82956G	Inf	3
75.54M	5.75672G	5.83226G	Inf	4

5.15-5.25GHz_ac80_80MHz_Nss4,(MCS0)_4TX

EBW

5210MHz

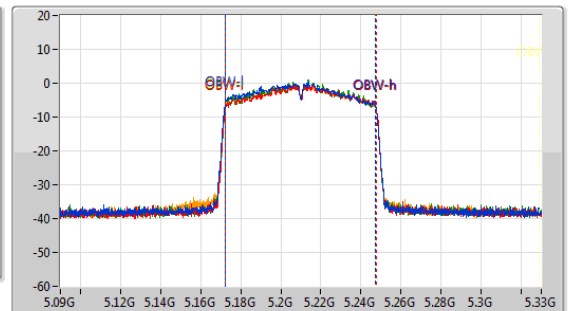
CF
5.21GHz
Span
528MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.784M	5.169608G	5.250392G	74.963M	5.172339G	5.247301G	Inf	1
80.256M	5.169872G	5.250128G	75.082M	5.172459G	5.247541G	Inf	2
79.992M	5.169872G	5.249864G	74.963M	5.172459G	5.247421G	Inf	3
80.52M	5.169608G	5.250128G	74.963M	5.172459G	5.247421G	Inf	4

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak

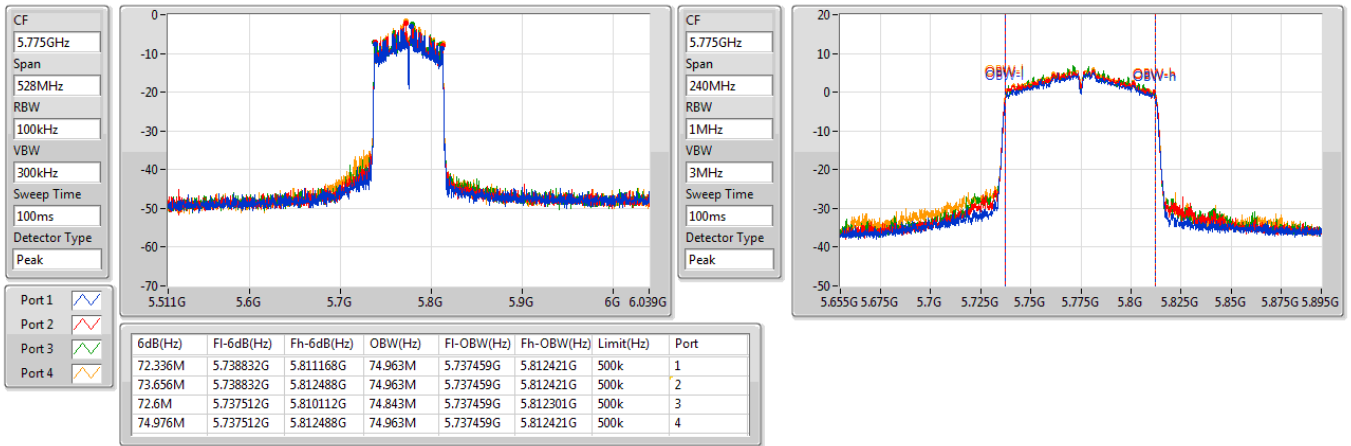




5.725-5.85GHz_ac80_80MHz_Nss4,(MCS0)_4TX

EBW

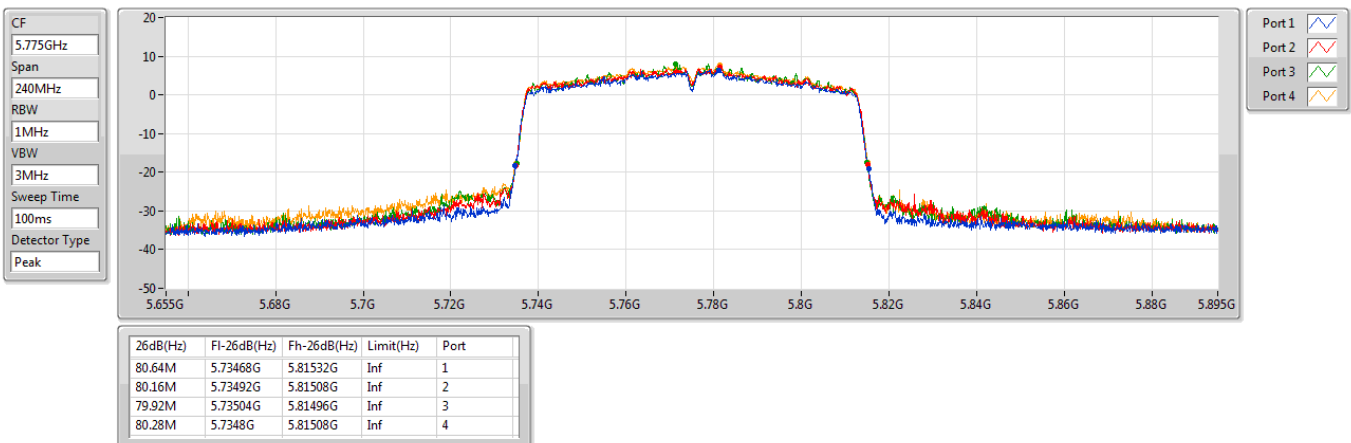
5775MHz



5.725-5.85GHz_ac80_80MHz_Nss4,(MCS0)_4TX

EBW

5775MHz



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
ac20_20MHz_Nss4,(MCS0)_4TX	25.50	0.35481	28.73	0.74645
ac40_40MHz_Nss4,(MCS0)_4TX	22.53	0.17906	25.76	0.37670
ac80_80MHz_Nss4,(MCS0)_4TX	14.59	0.02877	17.82	0.06053
5.725-5.85GHz	-	-	-	-
ac20_20MHz_Nss4,(MCS0)_4TX	26.96	0.49659	31.70	1.47911
ac40_40MHz_Nss4,(MCS0)_4TX	25.04	0.31915	29.78	0.95060
ac80_80MHz_Nss4,(MCS0)_4TX	18.37	0.06871	23.11	0.20464

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
ac20_20MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.23	14.52	12.95	13.62	14.15	19.87	30.00	23.10	36.00
5200MHz	Pass	3.23	16.66	15.02	15.54	16.11	21.90	30.00	25.13	36.00
5240MHz	Pass	3.23	20.02	19.18	19.19	19.48	25.50	30.00	28.73	36.00
5745MHz	Pass	4.74	20.71	21.25	20.55	21.22	26.96	30.00	31.70	36.00
5785MHz	Pass	4.74	21.03	21.15	20.75	20.72	26.94	30.00	31.68	36.00
5825MHz	Pass	4.74	20.75	21.02	20.63	20.52	26.75	30.00	31.49	36.00
ac40_40MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.23	10.02	8.62	9.77	10.25	15.73	30.00	18.96	36.00
5230MHz	Pass	3.23	17.32	15.82	16.03	16.72	22.53	30.00	25.76	36.00
5755MHz	Pass	4.74	18.02	18.25	17.69	18.33	24.10	30.00	28.84	36.00
5795MHz	Pass	4.74	19.02	19.11	18.52	19.37	25.04	30.00	29.78	36.00
ac80_80MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.23	7.95	8.21	9.12	8.91	14.59	30.00	17.82	36.00
5775MHz	Pass	4.74	11.85	12.25	12.21	13.01	18.37	30.00	23.11	36.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
ac20_20MHz_Nss4,(MCS0)_4TX	13.86	17.09
ac40_40MHz_Nss4,(MCS0)_4TX	8.02	11.25
ac80_80MHz_Nss4,(MCS0)_4TX	-4.42	-1.19
5.725-5.85GHz	-	-
ac20_20MHz_Nss4,(MCS0)_4TX	13.22	17.96
ac40_40MHz_Nss4,(MCS0)_4TX	9.08	13.82
ac80_80MHz_Nss4,(MCS0)_4TX	-0.11	4.63

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
ac20_20MHz_Nss4,(MCS0)_4TX										
5180MHz	Pass	3.23	2.97	1.39	2.22	2.61	8.19	17.00	11.42	23.00
5200MHz	Pass	3.23	5.52	3.49	4.13	4.79	10.37	17.00	13.60	23.00
5240MHz	Pass	3.23	8.29	7.65	7.84	8.03	13.86	17.00	17.09	23.00
5745MHz	Pass	4.74	7.17	7.36	7.39	7.24	13.22	30.00	17.96	36.00
5785MHz	Pass	4.74	6.88	7.17	7.73	7.03	13.08	30.00	17.82	36.00
5825MHz	Pass	4.74	6.21	6.24	6.04	6.39	12.13	30.00	16.87	36.00
ac40_40MHz_Nss4,(MCS0)_4TX										
5190MHz	Pass	3.23	-4.59	-6.04	-4.60	-4.40	1.06	17.00	4.29	23.00
5230MHz	Pass	3.23	2.98	1.12	1.71	2.37	8.02	17.00	11.25	23.00
5755MHz	Pass	4.74	2.14	2.20	2.10	2.29	8.04	30.00	12.78	36.00
5795MHz	Pass	4.74	3.12	3.10	2.55	3.55	9.08	30.00	13.82	36.00
ac80_80MHz_Nss4,(MCS0)_4TX										
5210MHz	Pass	3.23	-9.95	-10.71	-10.48	-10.14	-4.42	17.00	-1.19	23.00
5775MHz	Pass	4.74	-6.52	-6.11	-6.14	-5.38	-0.11	30.00	4.63	36.00

DG = Directional Gain

For 5.15 ~ 5.25 GHz

Directional gain = $3.23 + 10 \cdot \log(4/4) = 3.23$ dBi

For 5.725 ~ 5.55 GHz

Directional gain = $4.74 + 10 \cdot \log(4/4) = 4.74$ dBi

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

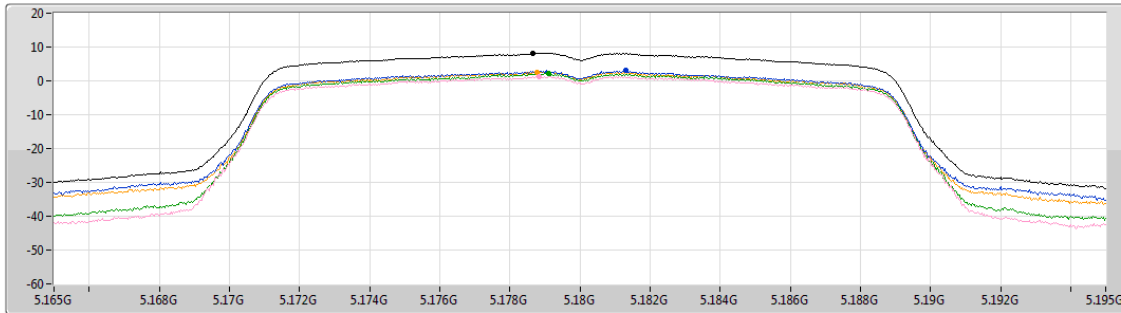
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

5.15-5.25GHz_ac20_20MHz_Nss4,(MCS0)_4TX

PSD

5180MHz

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

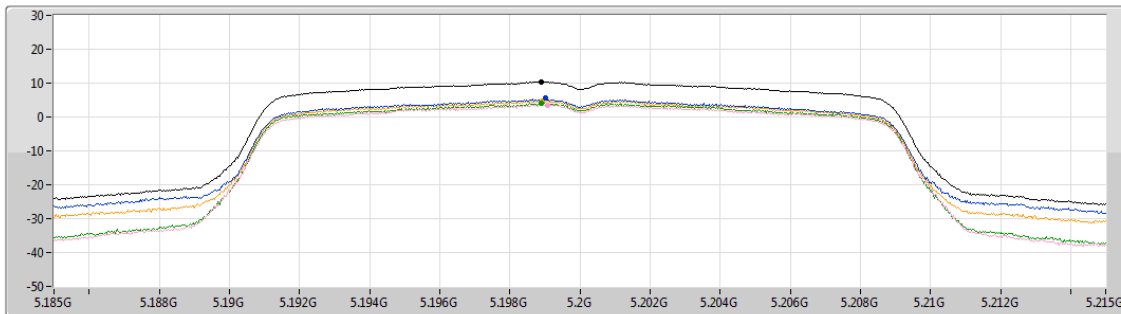
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.19	8.19	2.97	1.39	2.22	2.61

5.15-5.25GHz_ac20_20MHz_Nss4,(MCS0)_4TX

PSD

5200MHz

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.37	10.37	5.52	3.49	4.13	4.79

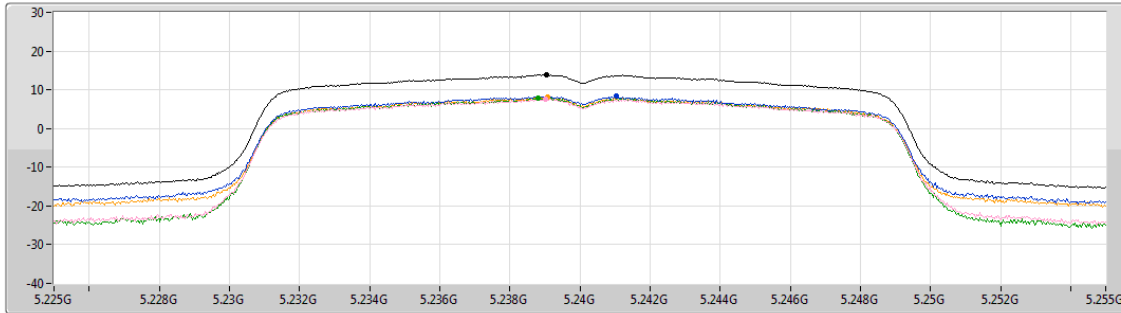


5.15-5.25GHz_ac20_20MHz_Nss4,(MCS0)_4TX

PSD

5240MHz

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

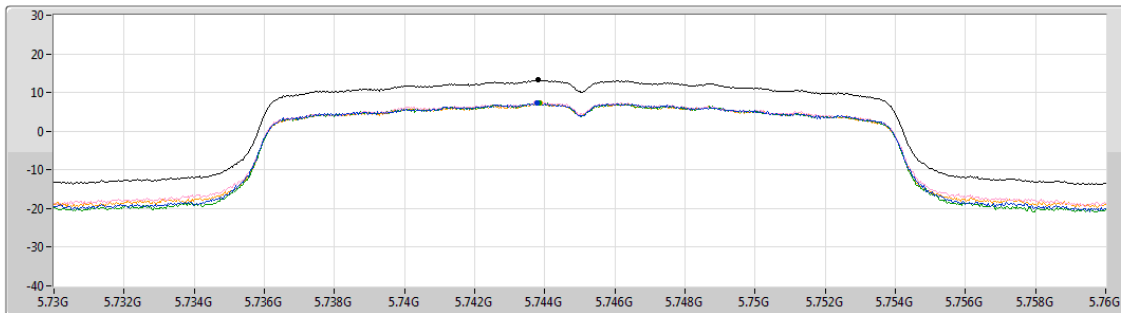
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.86	13.86	8.29	7.65	7.84	8.03

5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

PSD

5745MHz

CF
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

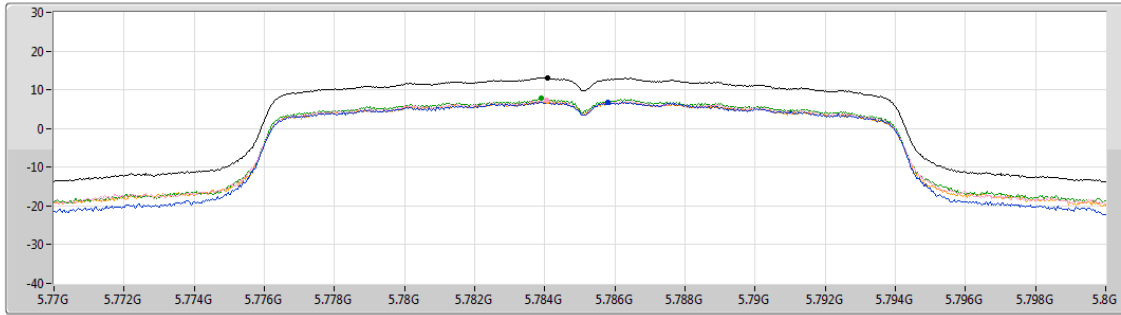
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.22	13.22	7.17	7.36	7.39	7.24

5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

PSD

5785MHz

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



Sum
Port 1
Port 2
Port 3
Port 4

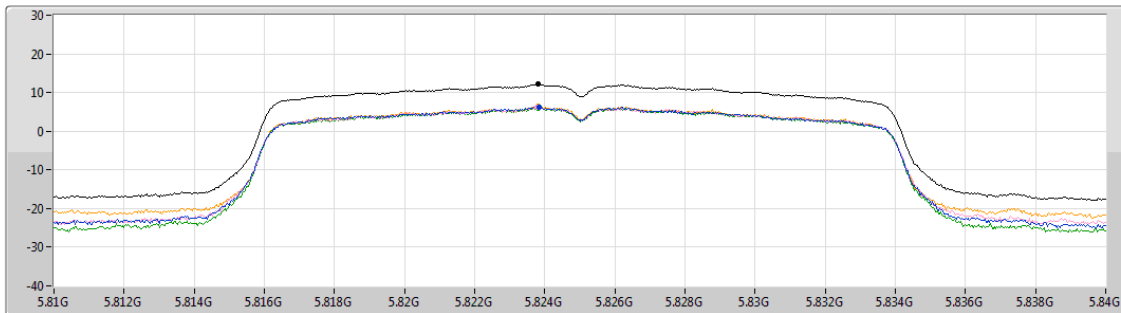
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.08	13.08	6.88	7.17	7.73	7.03

5.725-5.85GHz_ac20_20MHz_Nss4,(MCS0)_4TX

PSD

5825MHz

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



Sum
Port 1
Port 2
Port 3
Port 4

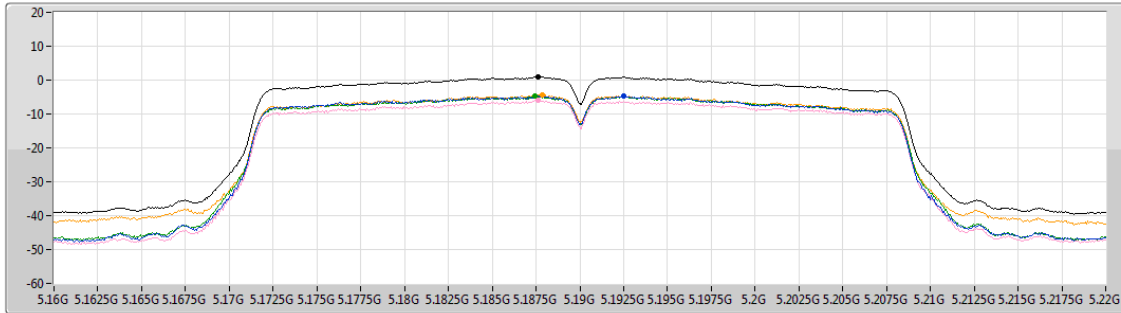
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.13	12.13	6.21	6.24	6.04	6.39

5.15-5.25GHz_ac40_40MHz_Nss4,(MCS0)_4TX

PSD

5190MHz

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



Sum
Port 1
Port 2
Port 3
Port 4

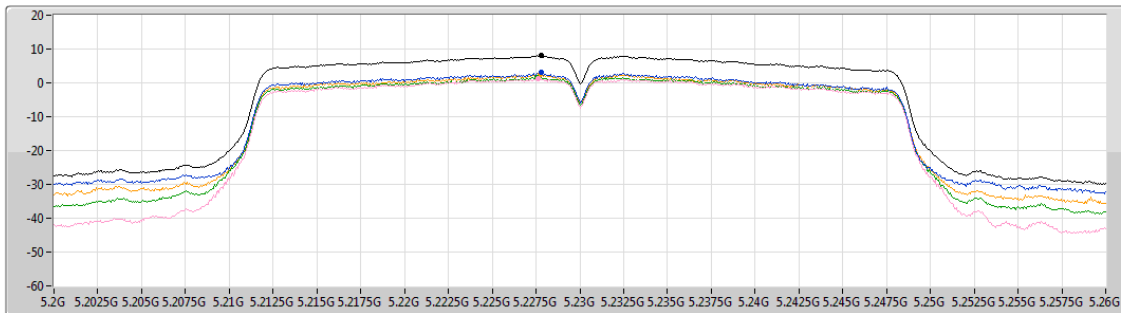
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.06	1.06	-4.59	-6.04	-4.60	-4.40

5.15-5.25GHz_ac40_40MHz_Nss4,(MCS0)_4TX

PSD

5230MHz

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



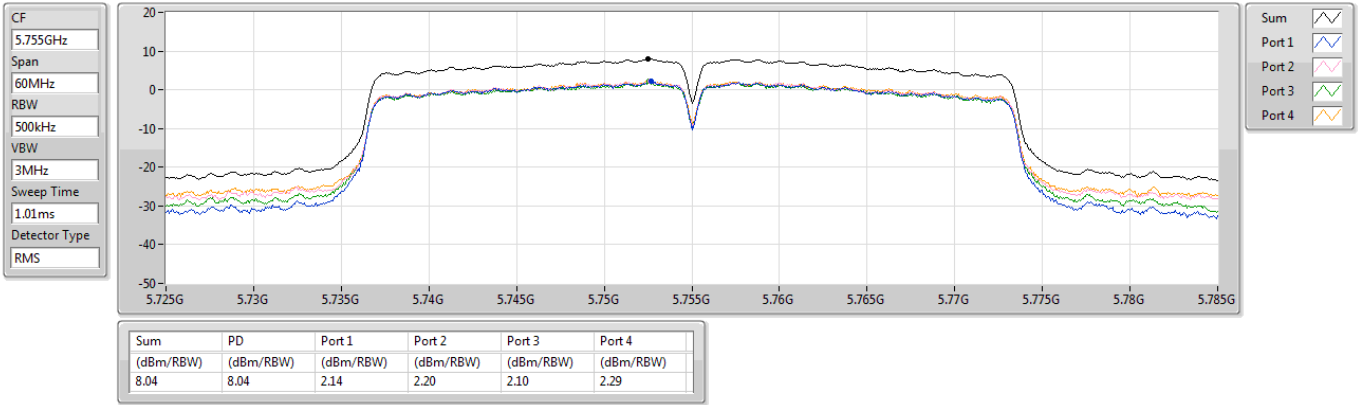
Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.02	8.02	2.98	1.12	1.71	2.37

5.725-5.85GHz_ac40_40MHz_Nss4,(MCS0)_4TX

PSD

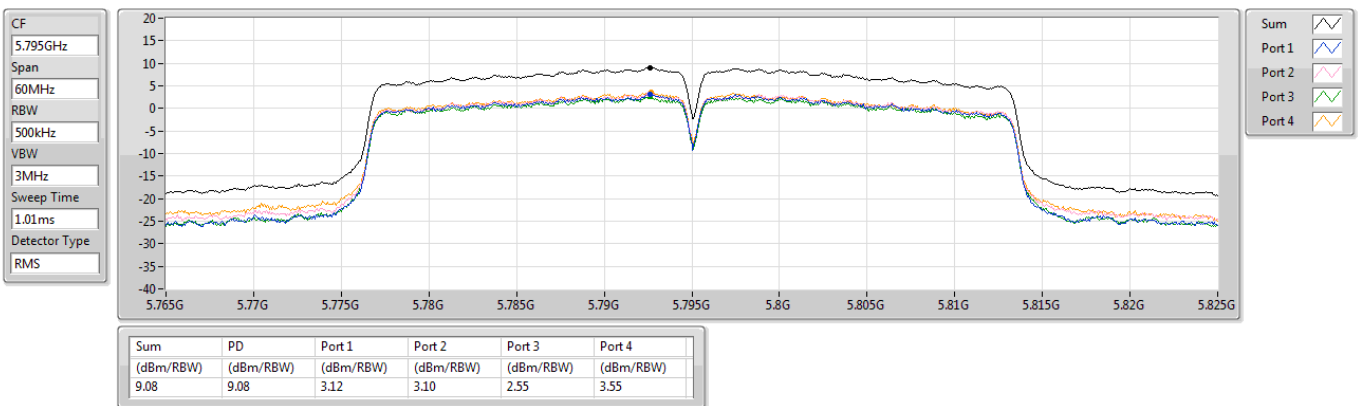
5755MHz



5.725-5.85GHz_ac40_40MHz_Nss4,(MCS0)_4TX

PSD

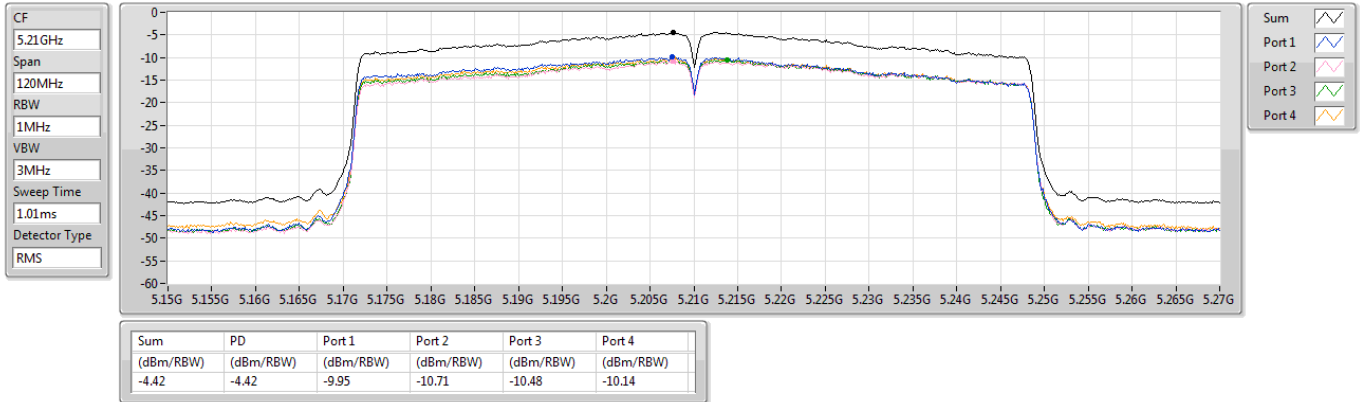
5795MHz



5.15-5.25GHz_ac80_80MHz_Nss4,(MCS0)_4TX

PSD

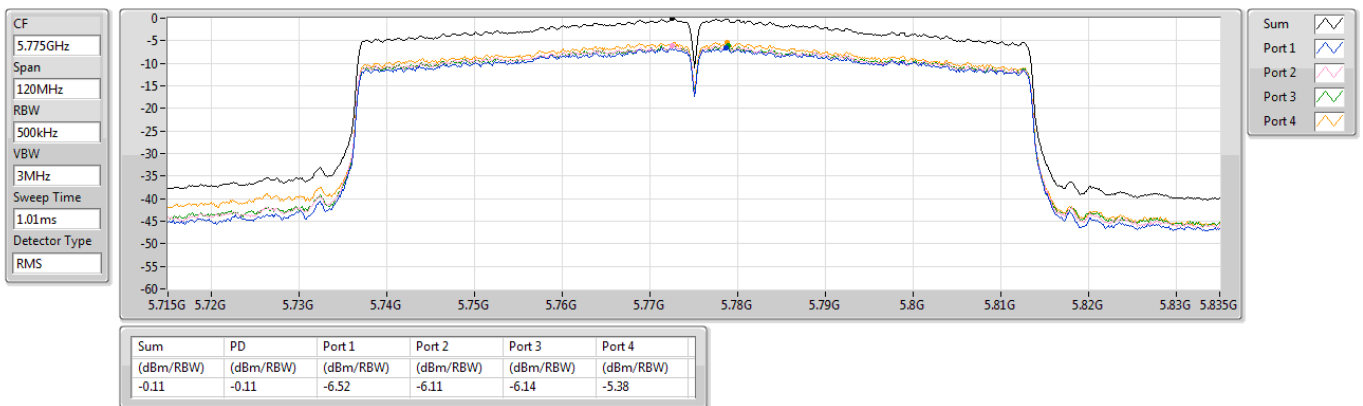
5210MHz



5.725-5.85GHz_ac80_80MHz_Nss4,(MCS0)_4TX

PSD

5775MHz





Unwanted Emissions (Below 1GHz)

Modulation	ac VHT20		Test Freq. (MHz)		5240																																																																																											
Polarization	Horizontal																																																																																															
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																																
Level (dBUV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>249.22</td><td>40.13</td><td>46.00</td><td>-5.87</td><td>49.77</td><td>-9.64</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>600.36</td><td>41.25</td><td>46.00</td><td>-4.75</td><td>41.12</td><td>0.13</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>624.61</td><td>42.86</td><td>46.00</td><td>-3.14</td><td>42.20</td><td>0.66</td><td>QP</td><td>132</td><td>45</td></tr><tr><td>4</td><td>749.74</td><td>39.92</td><td>46.00</td><td>-6.08</td><td>36.69</td><td>3.23</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>874.87</td><td>40.82</td><td>46.00</td><td>-5.18</td><td>35.75</td><td>5.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>928.22</td><td>40.56</td><td>46.00</td><td>-5.44</td><td>34.31</td><td>6.25</td><td>Peak</td><td>---</td><td>---</td></tr></table>								Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	249.22	40.13	46.00	-5.87	49.77	-9.64	Peak	---	---	2	600.36	41.25	46.00	-4.75	41.12	0.13	Peak	---	---	3	624.61	42.86	46.00	-3.14	42.20	0.66	QP	132	45	4	749.74	39.92	46.00	-6.08	36.69	3.23	Peak	---	---	5	874.87	40.82	46.00	-5.18	35.75	5.07	Peak	---	---	6	928.22	40.56	46.00	-5.44	34.31	6.25	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																							
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																							
		dBuV/m			dBuV			cm	deg																																																																																							
1	249.22	40.13	46.00	-5.87	49.77	-9.64	Peak	---	---																																																																																							
2	600.36	41.25	46.00	-4.75	41.12	0.13	Peak	---	---																																																																																							
3	624.61	42.86	46.00	-3.14	42.20	0.66	QP	132	45																																																																																							
4	749.74	39.92	46.00	-6.08	36.69	3.23	Peak	---	---																																																																																							
5	874.87	40.82	46.00	-5.18	35.75	5.07	Peak	---	---																																																																																							
6	928.22	40.56	46.00	-5.44	34.31	6.25	Peak	---	---																																																																																							
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																																

Modulation	ac VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Brad Wu		Temperature(°C):22	Humidity(%):63

	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	42.61	36.68	40.00	-3.32	45.53	-8.85	QP	100	291
2	249.22	40.97	46.00	-5.03	50.61	-9.64	Peak	---	---
3	385.99	42.07	46.00	-3.93	47.39	-5.32	Peak	---	---
4	600.36	36.53	46.00	-9.47	36.40	0.13	Peak	---	---
5	624.61	39.01	46.00	-6.99	38.35	0.66	Peak	---	---
6	928.22	41.56	46.00	-4.44	35.31	6.25	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	ac VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Brad Wu		Temperature(°C):22	Humidity(%):63

	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	95.96	38.55	43.50	-4.95	52.40	-13.85	Peak	---	---
2	202.66	35.45	43.50	-8.05	47.27	-11.82	Peak	---	---
3	249.22	40.06	46.00	-5.94	49.70	-9.64	Peak	---	---
4	499.48	39.31	46.00	-6.69	41.80	-2.49	Peak	---	---
5	624.61	42.92	46.00	-3.08	42.26	0.66	QP	130	43
6	928.22	41.03	46.00	-4.97	34.78	6.25	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	ac VHT20		Test Freq. (MHz)		5745																																																																																														
Polarization	Vertical																																																																																																		
Test By :Brad Wu			Temperature(°C):22			Humidity(%):63																																																																																													
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>42.61</td><td>36.84</td><td>40.00</td><td>-3.16</td><td>45.69</td><td>-8.85</td><td>QP</td><td>100</td><td>289</td></tr><tr><td>2</td><td>249.22</td><td>40.28</td><td>46.00</td><td>-5.72</td><td>49.92</td><td>-9.64</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>381.14</td><td>42.23</td><td>46.00</td><td>-3.77</td><td>47.75</td><td>-5.52</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>624.61</td><td>37.96</td><td>46.00</td><td>-8.04</td><td>37.30</td><td>0.66</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>880.69</td><td>40.32</td><td>46.00</td><td>-5.68</td><td>35.20</td><td>5.12</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>928.22</td><td>40.06</td><td>46.00</td><td>-5.94</td><td>33.81</td><td>6.25</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>											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	42.61	36.84	40.00	-3.16	45.69	-8.85	QP	100	289	2	249.22	40.28	46.00	-5.72	49.92	-9.64	Peak	---	---	3	381.14	42.23	46.00	-3.77	47.75	-5.52	Peak	---	---	4	624.61	37.96	46.00	-8.04	37.30	0.66	Peak	---	---	5	880.69	40.32	46.00	-5.68	35.20	5.12	Peak	---	---	6	928.22	40.06	46.00	-5.94	33.81	6.25	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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3	381.14	42.23	46.00	-3.77	47.75	-5.52	Peak	---	---																																																																																										
4	624.61	37.96	46.00	-8.04	37.30	0.66	Peak	---	---																																																																																										
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																																			



Unwanted Emissions (Above 1GHz) for ac VHT20

Modulation	ac VHT20	Test Freq. (MHz)	5180																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																															
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>43.62</td><td>54.00</td><td>-10.38</td><td>42.80</td><td>0.82</td><td>Average</td><td>261</td><td>82</td></tr><tr><td>2</td><td>5150.00</td><td>58.84</td><td>74.00</td><td>-15.16</td><td>58.02</td><td>0.82</td><td>Peak</td><td>261</td><td>82</td></tr><tr><td>3</td><td>10360.00</td><td>55.49</td><td>68.20</td><td>-12.71</td><td>47.00</td><td>8.49</td><td>Peak</td><td>100</td><td>145</td></tr><tr><td>4</td><td>15540.00</td><td>43.62</td><td>54.00</td><td>-10.38</td><td>37.64</td><td>5.98</td><td>Average</td><td>100</td><td>315</td></tr><tr><td>5</td><td>15540.00</td><td>56.53</td><td>74.00</td><td>-17.47</td><td>50.55</td><td>5.98</td><td>Peak</td><td>100</td><td>315</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	43.62	54.00	-10.38	42.80	0.82	Average	261	82	2	5150.00	58.84	74.00	-15.16	58.02	0.82	Peak	261	82	3	10360.00	55.49	68.20	-12.71	47.00	8.49	Peak	100	145	4	15540.00	43.62	54.00	-10.38	37.64	5.98	Average	100	315	5	15540.00	56.53	74.00	-17.47	50.55	5.98	Peak	100	315
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
1	5150.00	43.62	54.00	-10.38	42.80	0.82	Average	261	82																																																						
2	5150.00	58.84	74.00	-15.16	58.02	0.82	Peak	261	82																																																						
3	10360.00	55.49	68.20	-12.71	47.00	8.49	Peak	100	145																																																						
4	15540.00	43.62	54.00	-10.38	37.64	5.98	Average	100	315																																																						
5	15540.00	56.53	74.00	-17.47	50.55	5.98	Peak	100	315																																																						
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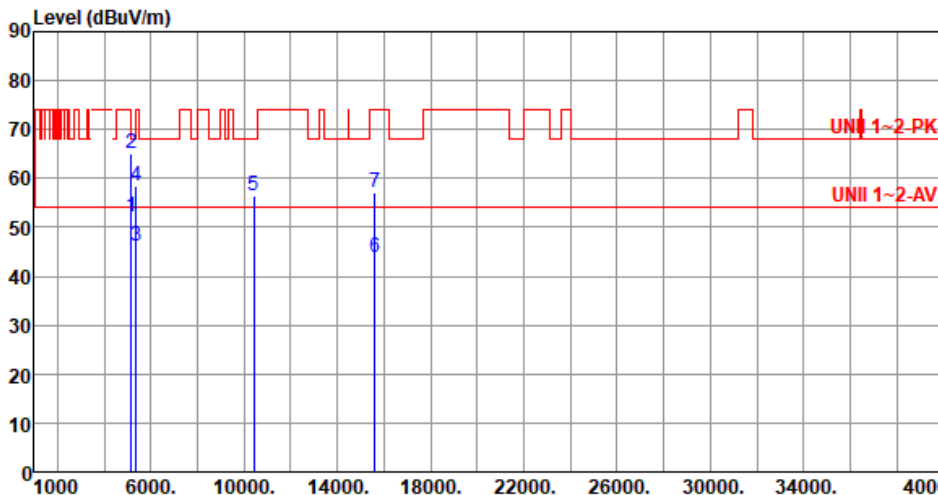


Modulation	ac VHT20		Test Freq. (MHz)		5180																																																													
Polarization	Vertical																																																																	
Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																																		
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Modulation	ac VHT20		Test Freq. (MHz)		5200																																																																																	
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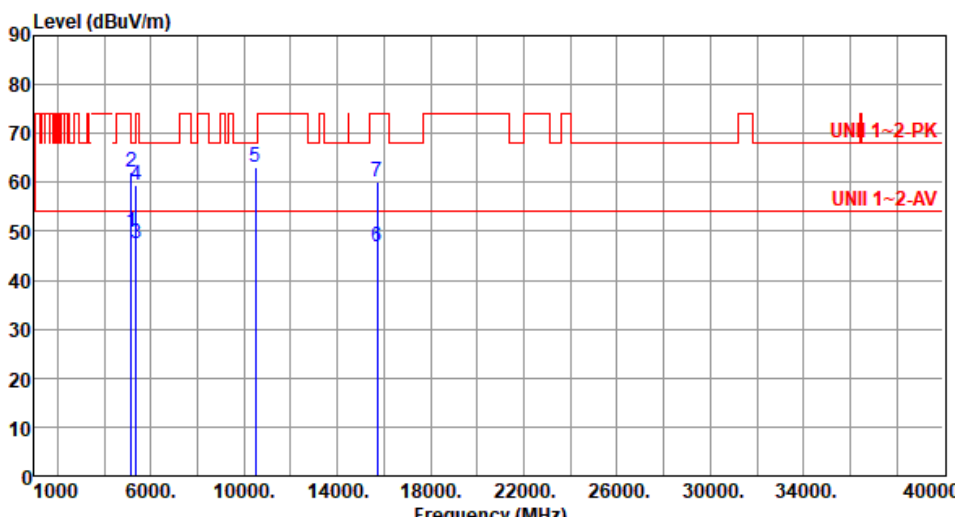


Modulation	ac VHT20		Test Freq. (MHz)		5200																																																																																	
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Modulation	ac VHT20		Test Freq. (MHz)		5240																																																																																																					
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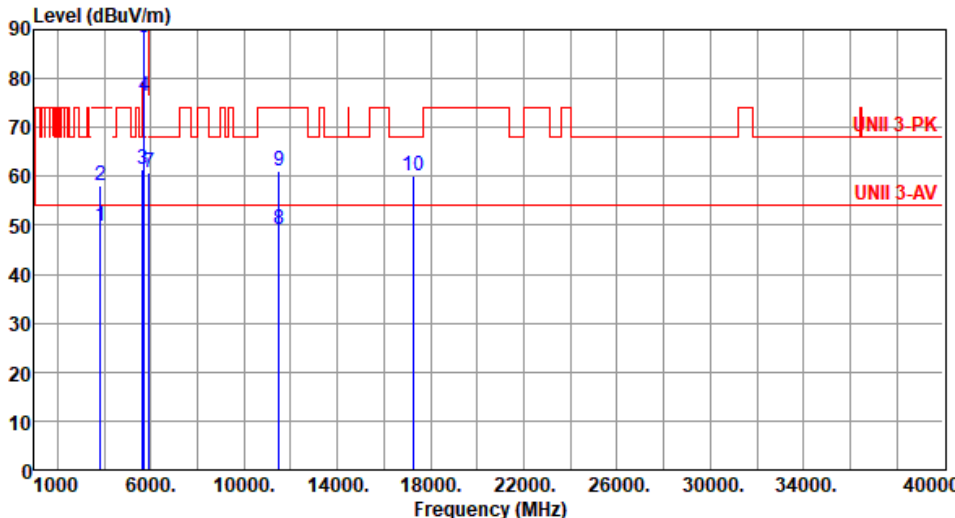


Modulation	ac VHT20		Test Freq. (MHz)		5240																																																																																																								
Polarization	Vertical																																																																																																												
Test By :Brad Wu			Temperature(°C):24			Humidity(%):65																																																																																																							
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Modulation	ac VHT20		Test Freq. (MHz)		5745	
Polarization	Horizontal					
Test By :Brad Wu Temperature(°C):24 Humidity(%):65						
Level (dBUV/m) <						



Modulation	ac VHT20		Test Freq. (MHz)		5745				
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):65									
									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	3830.00	49.88	54.00	-4.12	51.31	-1.43	Average	236	243
2	3830.00	57.99	74.00	-16.01	59.42	-1.43	Peak	236	243
3	5650.00	61.56	68.20	-6.64	61.02	0.54	Peak	187	194
4	5700.00	76.37	105.20	-28.83	75.51	0.86	Peak	187	194
5	5720.00	88.32	110.80	-22.48	87.41	0.91	Peak	187	194
6	5725.00	91.23	122.20	-30.97	90.30	0.93	Peak	187	194
7	5925.00	60.71	68.20	-7.49	59.22	1.49	Peak	187	194
8	11490.00	49.29	54.00	-4.71	40.58	8.71	Average	100	115
9	11490.00	61.08	74.00	-12.92	52.37	8.71	Peak	100	115
10	17235.00	60.16	68.20	-8.04	53.90	6.26	Peak	100	29

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



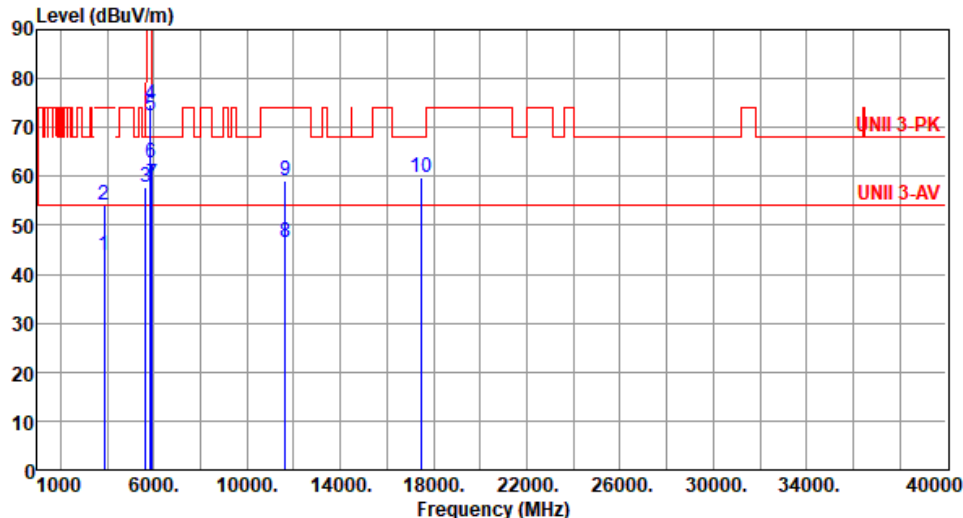
Modulation	ac VHT20		Test Freq. (MHz)		5785																																																																																	
Polarization	Horizontal																																																																																					
Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																																																						
<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>3856.66</td><td>43.71</td><td>54.00</td><td>-10.29</td><td>45.07</td><td>-1.36</td><td>Average</td><td>100</td><td>114</td></tr><tr><td>2</td><td>3856.66</td><td>54.09</td><td>74.00</td><td>-19.91</td><td>55.45</td><td>-1.36</td><td>Peak</td><td>100</td><td>114</td></tr><tr><td>3</td><td>5650.00</td><td>58.10</td><td>68.20</td><td>-10.10</td><td>57.56</td><td>0.54</td><td>Peak</td><td>108</td><td>118</td></tr><tr><td>4</td><td>5925.00</td><td>57.77</td><td>68.20</td><td>-10.43</td><td>56.28</td><td>1.49</td><td>Peak</td><td>108</td><td>118</td></tr><tr><td>5</td><td>11570.00</td><td>46.64</td><td>54.00</td><td>-7.36</td><td>38.05</td><td>8.59</td><td>Average</td><td>100</td><td>129</td></tr><tr><td>6</td><td>11570.00</td><td>59.19</td><td>74.00</td><td>-14.81</td><td>50.60</td><td>8.59</td><td>Peak</td><td>100</td><td>129</td></tr><tr><td>7</td><td>17355.00</td><td>59.76</td><td>68.20</td><td>-8.44</td><td>53.18</td><td>6.58</td><td>Peak</td><td>100</td><td>56</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	3856.66	43.71	54.00	-10.29	45.07	-1.36	Average	100	114	2	3856.66	54.09	74.00	-19.91	55.45	-1.36	Peak	100	114	3	5650.00	58.10	68.20	-10.10	57.56	0.54	Peak	108	118	4	5925.00	57.77	68.20	-10.43	56.28	1.49	Peak	108	118	5	11570.00	46.64	54.00	-7.36	38.05	8.59	Average	100	129	6	11570.00	59.19	74.00	-14.81	50.60	8.59	Peak	100	129	7	17355.00	59.76	68.20	-8.44	53.18	6.58	Peak	100	56
	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	3856.66	43.71	54.00	-10.29	45.07	-1.36	Average	100	114																																																																													
2	3856.66	54.09	74.00	-19.91	55.45	-1.36	Peak	100	114																																																																													
3	5650.00	58.10	68.20	-10.10	57.56	0.54	Peak	108	118																																																																													
4	5925.00	57.77	68.20	-10.43	56.28	1.49	Peak	108	118																																																																													
5	11570.00	46.64	54.00	-7.36	38.05	8.59	Average	100	129																																																																													
6	11570.00	59.19	74.00	-14.81	50.60	8.59	Peak	100	129																																																																													
7	17355.00	59.76	68.20	-8.44	53.18	6.58	Peak	100	56																																																																													
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):24 Humidity(%):65									
Level (dBuV/m) UNII 3-PK UNII 3-AV 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	3856.66	50.49	54.00	-3.51	51.85	-1.36	Average	238	244
2	3856.66	58.98	74.00	-15.02	60.34	-1.36	Peak	238	244
3	5650.00	64.64	68.20	-3.56	64.10	0.54	Peak	135	215
4	5925.00	63.05	68.20	-5.15	61.56	1.49	Peak	135	215
5	11570.00	49.40	54.00	-4.60	40.81	8.59	Average	100	113
6	11570.00	61.22	74.00	-12.78	52.63	8.59	Peak	100	113
7	17355.00	60.02	68.20	-8.18	53.44	6.58	Peak	100	22

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):24 Humidity(%):65									
									
	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	3883.33	43.82	54.00	-10.18	45.14	-1.32	Average	100	111
2	3883.33	54.16	74.00	-19.84	55.48	-1.32	Peak	100	111
3	5650.00	57.65	68.20	-10.55	57.11	0.54	Peak	110	114
4	5850.00	74.62	122.20	-47.58	73.38	1.24	Peak	110	114
5	5855.00	72.45	110.80	-38.35	71.19	1.26	Peak	110	114
6	5875.00	62.65	105.20	-42.55	61.29	1.36	Peak	110	114
7	5925.00	58.49	68.20	-9.71	57.00	1.49	Peak	110	114
8	11650.00	46.51	54.00	-7.49	38.28	8.23	Average	100	131
9	11650.00	59.03	74.00	-14.97	50.80	8.23	Peak	100	131
10	17475.00	59.62	68.20	-8.58	52.53	7.09	Peak	100	66

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



Modulation	ac VHT20		Test Freq. (MHz)		5825				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):65			
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	3883.33	48.51	54.00	-5.49	49.83	-1.32	Average	241	242
2	3883.33	56.87	74.00	-17.13	58.19	-1.32	Peak	241	242
3	5650.00	60.01	68.20	-8.19	59.47	0.54	Peak	198	196
4	5850.00	84.87	122.20	-37.33	83.63	1.24	Peak	198	196
5	5855.00	82.51	110.80	-28.29	81.25	1.26	Peak	198	196
6	5875.00	72.89	105.20	-32.31	71.53	1.36	Peak	198	196
7	5925.00	62.11	68.20	-6.09	60.62	1.49	Peak	198	196
8	11650.00	49.52	54.00	-4.48	41.29	8.23	Average	100	118
9	11650.00	61.34	74.00	-12.66	53.11	8.23	Peak	100	118
10	17475.00	60.16	68.20	-8.04	53.07	7.09	Peak	100	29

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



Unwanted Emissions (Above 1GHz) for ac VHT40

Modulation	ac VHT40	Test Freq. (MHz)	5190																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																															
<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>43.96</td><td>54.00</td><td>-10.04</td><td>43.14</td><td>0.82</td><td>Average</td><td>264</td><td>85</td></tr><tr><td>2</td><td>5150.00</td><td>58.65</td><td>74.00</td><td>-15.35</td><td>57.83</td><td>0.82</td><td>Peak</td><td>264</td><td>85</td></tr><tr><td>3</td><td>10380.00</td><td>55.48</td><td>68.20</td><td>-12.72</td><td>46.91</td><td>8.57</td><td>Peak</td><td>100</td><td>146</td></tr><tr><td>4</td><td>15570.00</td><td>43.62</td><td>54.00</td><td>-10.38</td><td>37.76</td><td>5.86</td><td>Average</td><td>100</td><td>301</td></tr><tr><td>5</td><td>15570.00</td><td>56.45</td><td>74.00</td><td>-17.55</td><td>50.59</td><td>5.86</td><td>Peak</td><td>100</td><td>301</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	43.96	54.00	-10.04	43.14	0.82	Average	264	85	2	5150.00	58.65	74.00	-15.35	57.83	0.82	Peak	264	85	3	10380.00	55.48	68.20	-12.72	46.91	8.57	Peak	100	146	4	15570.00	43.62	54.00	-10.38	37.76	5.86	Average	100	301	5	15570.00	56.45	74.00	-17.55	50.59	5.86	Peak	100	301
	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	43.96	54.00	-10.04	43.14	0.82	Average	264	85																																																						
2	5150.00	58.65	74.00	-15.35	57.83	0.82	Peak	264	85																																																						
3	10380.00	55.48	68.20	-12.72	46.91	8.57	Peak	100	146																																																						
4	15570.00	43.62	54.00	-10.38	37.76	5.86	Average	100	301																																																						
5	15570.00	56.45	74.00	-17.55	50.59	5.86	Peak	100	301																																																						
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(%):65																																																																		
<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>52.95</td><td>54.00</td><td>-1.05</td><td>52.13</td><td>0.82</td><td>Average</td><td>201</td><td>246</td></tr><tr><td>2</td><td>5150.00</td><td>68.48</td><td>74.00</td><td>-5.52</td><td>67.66</td><td>0.82</td><td>Peak</td><td>201</td><td>246</td></tr><tr><td>3</td><td>10380.00</td><td>56.22</td><td>68.20</td><td>-11.98</td><td>47.65</td><td>8.57</td><td>Peak</td><td>100</td><td>169</td></tr><tr><td>4</td><td>15570.00</td><td>43.84</td><td>54.00</td><td>-10.16</td><td>37.98</td><td>5.86</td><td>Average</td><td>100</td><td>153</td></tr><tr><td>5</td><td>15570.00</td><td>57.02</td><td>74.00</td><td>-16.98</td><td>51.16</td><td>5.86</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	5150.00	52.95	54.00	-1.05	52.13	0.82	Average	201	246	2	5150.00	68.48	74.00	-5.52	67.66	0.82	Peak	201	246	3	10380.00	56.22	68.20	-11.98	47.65	8.57	Peak	100	169	4	15570.00	43.84	54.00	-10.16	37.98	5.86	Average	100	153	5	15570.00	57.02	74.00	-16.98	51.16	5.86	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	5150.00	52.95	54.00	-1.05	52.13	0.82	Average	201	246																																																									
2	5150.00	68.48	74.00	-5.52	67.66	0.82	Peak	201	246																																																									
3	10380.00	56.22	68.20	-11.98	47.65	8.57	Peak	100	169																																																									
4	15570.00	43.84	54.00	-10.16	37.98	5.86	Average	100	153																																																									
5	15570.00	57.02	74.00	-16.98	51.16	5.86	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).																																																																		



Modulation	ac VHT40		Test Freq. (MHz)		5230																																																																																	
Polarization	Horizontal																																																																																					
Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																																																						
<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>43.81</td><td>54.00</td><td>-10.19</td><td>42.99</td><td>0.82</td><td>Average</td><td>266</td><td>75</td></tr><tr><td>2</td><td>5150.00</td><td>61.65</td><td>74.00</td><td>-12.35</td><td>60.83</td><td>0.82</td><td>Peak</td><td>266</td><td>75</td></tr><tr><td>3</td><td>5350.00</td><td>42.95</td><td>54.00</td><td>-11.05</td><td>42.81</td><td>0.14</td><td>Average</td><td>266</td><td>75</td></tr><tr><td>4</td><td>5350.00</td><td>56.64</td><td>74.00</td><td>-17.36</td><td>56.50</td><td>0.14</td><td>Peak</td><td>266</td><td>75</td></tr><tr><td>5</td><td>10460.00</td><td>55.49</td><td>68.20</td><td>-12.71</td><td>46.81</td><td>8.68</td><td>Peak</td><td>100</td><td>133</td></tr><tr><td>6</td><td>15690.00</td><td>43.68</td><td>54.00</td><td>-10.32</td><td>37.93</td><td>5.75</td><td>Average</td><td>100</td><td>312</td></tr><tr><td>7</td><td>15690.00</td><td>56.55</td><td>74.00</td><td>-17.45</td><td>50.80</td><td>5.75</td><td>Peak</td><td>100</td><td>312</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	43.81	54.00	-10.19	42.99	0.82	Average	266	75	2	5150.00	61.65	74.00	-12.35	60.83	0.82	Peak	266	75	3	5350.00	42.95	54.00	-11.05	42.81	0.14	Average	266	75	4	5350.00	56.64	74.00	-17.36	56.50	0.14	Peak	266	75	5	10460.00	55.49	68.20	-12.71	46.81	8.68	Peak	100	133	6	15690.00	43.68	54.00	-10.32	37.93	5.75	Average	100	312	7	15690.00	56.55	74.00	-17.45	50.80	5.75	Peak	100	312
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																													
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6	15690.00	43.68	54.00	-10.32	37.93	5.75	Average	100	312																																																																													
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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)		5230																																																																																	
Polarization	Vertical																																																																																					
Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																																																						
<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>52.94</td><td>54.00</td><td>-1.06</td><td>52.12</td><td>0.82</td><td>Average</td><td>200</td><td>240</td></tr><tr><td>2</td><td>5150.00</td><td>72.78</td><td>74.00</td><td>-1.22</td><td>71.96</td><td>0.82</td><td>Peak</td><td>200</td><td>240</td></tr><tr><td>3</td><td>5350.00</td><td>47.64</td><td>54.00</td><td>-6.36</td><td>47.50</td><td>0.14</td><td>Average</td><td>200</td><td>240</td></tr><tr><td>4</td><td>5350.00</td><td>60.13</td><td>74.00</td><td>-13.87</td><td>59.99</td><td>0.14</td><td>Peak</td><td>200</td><td>240</td></tr><tr><td>5</td><td>10460.00</td><td>56.29</td><td>68.20</td><td>-11.91</td><td>47.61</td><td>8.68</td><td>Peak</td><td>100</td><td>175</td></tr><tr><td>6</td><td>15690.00</td><td>43.81</td><td>54.00</td><td>-10.19</td><td>38.06</td><td>5.75</td><td>Average</td><td>100</td><td>163</td></tr><tr><td>7</td><td>15690.00</td><td>56.95</td><td>74.00</td><td>-17.05</td><td>51.20</td><td>5.75</td><td>Peak</td><td>100</td><td>163</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	52.94	54.00	-1.06	52.12	0.82	Average	200	240	2	5150.00	72.78	74.00	-1.22	71.96	0.82	Peak	200	240	3	5350.00	47.64	54.00	-6.36	47.50	0.14	Average	200	240	4	5350.00	60.13	74.00	-13.87	59.99	0.14	Peak	200	240	5	10460.00	56.29	68.20	-11.91	47.61	8.68	Peak	100	175	6	15690.00	43.81	54.00	-10.19	38.06	5.75	Average	100	163	7	15690.00	56.95	74.00	-17.05	51.20	5.75	Peak	100	163
	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	ac VHT40		Test Freq. (MHz)		5755																																																																																											
Polarization	Horizontal																																																																																															
Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																																																																
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>57.82</td><td>68.20</td><td>-10.38</td><td>57.28</td><td>0.54</td><td>Peak</td><td>114</td><td>118</td></tr><tr><td>2</td><td>5700.00</td><td>71.24</td><td>105.20</td><td>-33.96</td><td>70.38</td><td>0.86</td><td>Peak</td><td>114</td><td>118</td></tr><tr><td>3</td><td>5720.00</td><td>80.36</td><td>110.80</td><td>-30.44</td><td>79.45</td><td>0.91</td><td>Peak</td><td>114</td><td>118</td></tr><tr><td>4</td><td>5725.00</td><td>83.68</td><td>122.20</td><td>-38.52</td><td>82.75</td><td>0.93</td><td>Peak</td><td>114</td><td>118</td></tr><tr><td>5</td><td>5925.00</td><td>58.46</td><td>68.20</td><td>-9.74</td><td>56.97</td><td>1.49</td><td>Peak</td><td>114</td><td>118</td></tr><tr><td>6</td><td>11510.00</td><td>46.35</td><td>54.00</td><td>-7.65</td><td>37.65</td><td>8.70</td><td>Average</td><td>100</td><td>136</td></tr><tr><td>7</td><td>11510.00</td><td>59.04</td><td>74.00</td><td>-14.96</td><td>50.34</td><td>8.70</td><td>Peak</td><td>100</td><td>136</td></tr><tr><td>8</td><td>17265.00</td><td>59.56</td><td>68.20</td><td>-8.64</td><td>53.29</td><td>6.27</td><td>Peak</td><td>100</td><td>53</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	57.82	68.20	-10.38	57.28	0.54	Peak	114	118	2	5700.00	71.24	105.20	-33.96	70.38	0.86	Peak	114	118	3	5720.00	80.36	110.80	-30.44	79.45	0.91	Peak	114	118	4	5725.00	83.68	122.20	-38.52	82.75	0.93	Peak	114	118	5	5925.00	58.46	68.20	-9.74	56.97	1.49	Peak	114	118	6	11510.00	46.35	54.00	-7.65	37.65	8.70	Average	100	136	7	11510.00	59.04	74.00	-14.96	50.34	8.70	Peak	100	136	8	17265.00	59.56	68.20	-8.64	53.29	6.27	Peak	100	53
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Modulation	ac VHT40		Test Freq. (MHz)		5755	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):24 Humidity(%):65						
Level (dBUV/m)						



Modulation	ac VHT40	Test Freq. (MHz)	5795																																																																																										
Polarization	Horizontal																																																																																												
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Modulation	ac VHT40		Test Freq. (MHz)		5795																																																																																														
Polarization	Vertical																																																																																																		
Test By :Brad Wu			Temperature(°C):24			Humidity(%):65																																																																																													
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Unwanted Emissions (Above 1GHz) for ac VHT80

Modulation	ac VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):65			
Level (dBUV/m)			

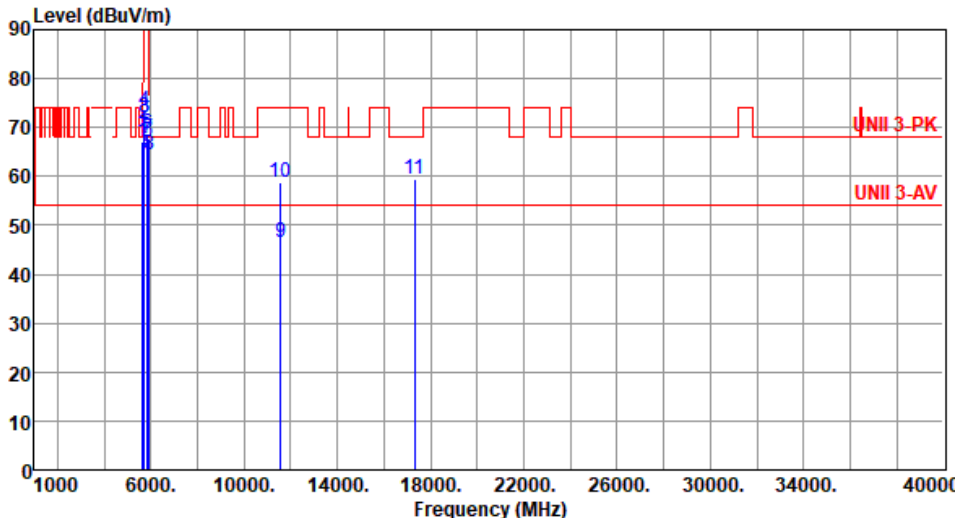


Modulation	ac VHT80		Test Freq. (MHz)		5210																																																																																																					
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Test By :Brad Wu Temperature(°C):24 Humidity(%):65																																																																																																										
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6	15630.00	43.79	54.00	-10.21	38.05	5.74	Average	100	144																																																																																																	
7	15630.00	56.98	74.00	-17.02	51.24	5.74	Peak	100	144																																																																																																	
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(%):65																																																																																																																											
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.46</td><td>68.20</td><td>-10.74</td><td>56.92</td><td>0.54</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>2</td><td>5700.00</td><td>60.68</td><td>105.20</td><td>-44.52</td><td>59.82</td><td>0.86</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>3</td><td>5720.00</td><td>61.65</td><td>110.80</td><td>-49.15</td><td>60.74</td><td>0.91</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>4</td><td>5725.00</td><td>63.52</td><td>122.20</td><td>-58.68</td><td>62.59</td><td>0.93</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>5</td><td>5850.00</td><td>58.69</td><td>122.20</td><td>-63.51</td><td>57.45</td><td>1.24</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>6</td><td>5855.00</td><td>58.54</td><td>110.80</td><td>-52.26</td><td>57.28</td><td>1.26</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>7</td><td>5875.00</td><td>58.35</td><td>105.20</td><td>-46.85</td><td>56.99</td><td>1.36</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>8</td><td>5925.00</td><td>58.16</td><td>68.20</td><td>-10.04</td><td>56.67</td><td>1.49</td><td>Peak</td><td>109</td><td>121</td></tr><tr><td>9</td><td>11550.00</td><td>46.34</td><td>54.00</td><td>-7.66</td><td>37.71</td><td>8.63</td><td>Average</td><td>100</td><td>121</td></tr><tr><td>10</td><td>11550.00</td><td>59.03</td><td>74.00</td><td>-14.97</td><td>50.40</td><td>8.63</td><td>Peak</td><td>100</td><td>121</td></tr><tr><td>11</td><td>17325.00</td><td>59.45</td><td>68.20</td><td>-8.75</td><td>53.02</td><td>6.43</td><td>Peak</td><td>100</td><td>92</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	57.46	68.20	-10.74	56.92	0.54	Peak	109	121	2	5700.00	60.68	105.20	-44.52	59.82	0.86	Peak	109	121	3	5720.00	61.65	110.80	-49.15	60.74	0.91	Peak	109	121	4	5725.00	63.52	122.20	-58.68	62.59	0.93	Peak	109	121	5	5850.00	58.69	122.20	-63.51	57.45	1.24	Peak	109	121	6	5855.00	58.54	110.80	-52.26	57.28	1.26	Peak	109	121	7	5875.00	58.35	105.20	-46.85	56.99	1.36	Peak	109	121	8	5925.00	58.16	68.20	-10.04	56.67	1.49	Peak	109	121	9	11550.00	46.34	54.00	-7.66	37.71	8.63	Average	100	121	10	11550.00	59.03	74.00	-14.97	50.40	8.63	Peak	100	121	11	17325.00	59.45	68.20	-8.75	53.02	6.43	Peak	100	92
	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	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):65									
									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	67.08	68.20	-1.12	66.54	0.54	Peak	138	233
2	5700.00	70.80	105.20	-34.40	69.94	0.86	Peak	138	233
3	5720.00	71.92	110.80	-38.88	71.01	0.91	Peak	138	233
4	5725.00	73.46	122.20	-48.74	72.53	0.93	Peak	138	233
5	5850.00	67.12	122.20	-55.08	65.88	1.24	Peak	138	233
6	5855.00	68.68	110.80	-42.12	67.42	1.26	Peak	138	233
7	5875.00	67.60	105.20	-37.60	66.24	1.36	Peak	138	233
8	5925.00	64.30	68.20	-3.90	62.81	1.49	Peak	138	233
9	11550.00	46.35	54.00	-7.65	37.72	8.63	Average	100	141
10	11550.00	58.82	74.00	-15.18	50.19	8.63	Peak	100	141
11	17325.00	59.39	68.20	-8.81	52.96	6.43	Peak	100	82

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	29.27	29.99	29.51	29.86
T20°CVmin	34.17	34.06	34.26	35.06
T50°CVnom	41.35	41.60	41.96	41.56
T40°CVnom	43.42	44.12	43.64	43.79
T30°CVnom	34.90	35.40	34.42	35.28
T20°CVnom	31.77	32.31	31.65	32.03
T10°CVnom	22.37	22.52	22.62	22.79
T0°CVnom	16.38	16.82	16.12	15.98
T-10°CVnom	10.46	10.22	10.94	10.44
T-20°CVnom	3.02	3.20	3.40	2.77
T-30°CVnom	3.46	3.37	4.05	4.34
Vnom [V]: 110	Vmax [V]: 126.5		Vmin [V]: 93.5	
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	34.31	34.03	35.03	34.39
T20°CVmin	29.82	30.10	30.44	29.71
T50°CVnom	61.23	61.57	60.78	61.27
T40°CVnom	54.00	54.08	53.84	54.10
T30°CVnom	44.67	45.07	45.05	44.95
T20°CVnom	32.01	32.54	32.36	32.35
T10°CVnom	19.45	19.31	19.81	19.08
T0°CVnom	9.06	9.31	9.36	9.45
T-10°CVnom	3.82	4.04	4.41	3.90
T-20°CVnom	-1.02	-1.27	-0.77	-1.11
T-30°CVnom	-1.30	-0.79	-0.61	-1.48
Vnom [V]: 110	Vmax [V]: 126.5		Vmin [V]: 93.5	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

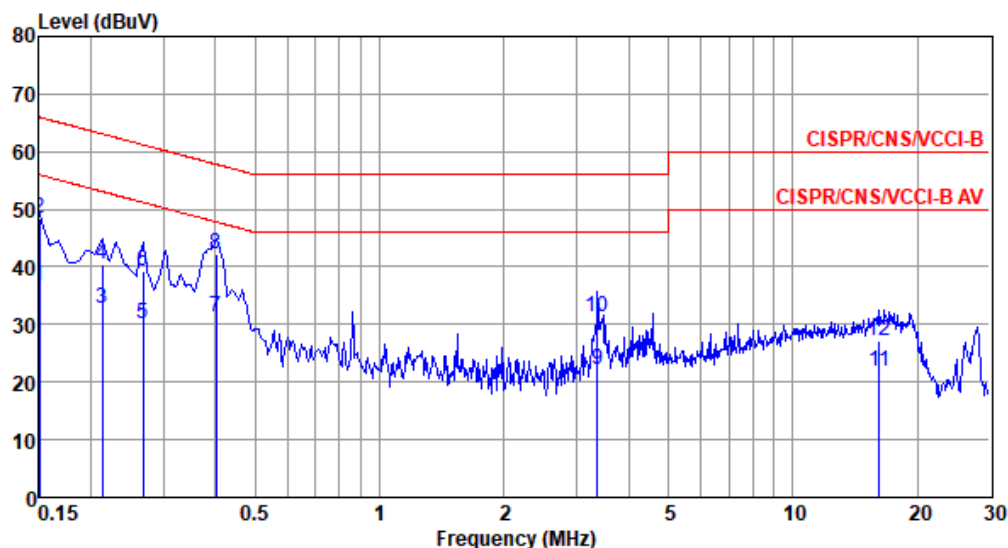


Modulation Mode	VHT20	Test Freq. (MHz)	5240
Power Phase	Line		

Test by : Brad Wu

Temperature: 21°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	0.150	36.70	56.00	-19.30	26.78	9.68	0.06	0.18	Average
2	0.150	48.41	66.00	-17.59	38.49	9.68	0.06	0.18	QP
3	0.213	32.65	53.10	-20.45	22.71	9.68	0.06	0.20	Average
4	0.213	40.55	63.10	-22.55	30.61	9.68	0.06	0.20	QP
5	0.267	30.02	51.20	-21.18	20.04	9.68	0.06	0.24	Average
6	0.267	39.24	61.20	-21.96	29.26	9.68	0.06	0.24	QP
7	0.402	31.31	47.81	-16.50	21.28	9.67	0.06	0.30	Average
8*	0.402	42.13	57.81	-15.68	32.10	9.67	0.06	0.30	QP
9	3.364	22.00	46.00	-24.00	11.73	9.70	0.17	0.40	Average
10	3.364	31.38	56.00	-24.62	21.11	9.70	0.17	0.40	QP
11	16.226	21.92	50.00	-28.08	11.23	9.73	0.46	0.50	Average
12	16.226	27.01	60.00	-32.99	16.32	9.73	0.46	0.50	QP

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

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



Modulation Mode	VHT20	Test Freq. (MHz)	5240
Power Phase	Neutral		

Test by : Brad Wu

Temperature: 21°C

Humidity: 61%

Level (dBUV)

Frequency (MHz)

CISPR/CNS/VCCI-B

CISPR/CNS/VCCI-B AV

	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	35.82	55.52	-19.70	25.97	9.61	0.06	0.18	Average
2	0.159	47.32	65.52	-18.20	37.47	9.61	0.06	0.18	QP
3	0.230	35.58	52.44	-16.86	25.70	9.61	0.06	0.21	Average
4	0.230	41.92	62.44	-20.52	32.04	9.61	0.06	0.21	QP
5	0.267	33.61	51.20	-17.59	23.70	9.61	0.06	0.24	Average
6	0.267	41.74	61.20	-19.46	31.83	9.61	0.06	0.24	QP
7	0.402	35.22	47.81	-12.59	25.25	9.61	0.06	0.30	Average
8*	0.402	45.56	57.81	-12.25	35.59	9.61	0.06	0.30	QP
9	3.364	20.52	46.00	-25.48	10.32	9.63	0.17	0.40	Average
10	3.364	27.84	56.00	-28.16	17.64	9.63	0.17	0.40	QP
11	16.661	24.05	50.00	-25.95	13.32	9.76	0.47	0.50	Average
12	16.661	29.14	60.00	-30.86	18.41	9.76	0.47	0.50	QP

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

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



Modulation Mode	VHT20	Test Freq. (MHz)	5745																																																																																																																																		
Power Phase	Line																																																																																																																																				
Test by : Brad Wu Temperature: 21°C Humidity: 61%																																																																																																																																					
Level (dBuV) Frequency (MHz) <table><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>Factor dB</th><th>Cable loss dB</th><th>Aux dB</th><th>Remark</th></tr><tr><td>1</td><td>0.159</td><td>35.38</td><td>55.52</td><td>-20.14</td><td>25.46</td><td>9.68</td><td>0.06</td><td>0.18</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>46.74</td><td>65.52</td><td>-18.78</td><td>36.82</td><td>9.68</td><td>0.06</td><td>0.18</td><td>QP</td></tr><tr><td>3</td><td>0.204</td><td>32.62</td><td>53.45</td><td>-20.83</td><td>22.69</td><td>9.68</td><td>0.06</td><td>0.19</td><td>Average</td></tr><tr><td>4</td><td>0.204</td><td>41.10</td><td>63.45</td><td>-22.35</td><td>31.17</td><td>9.68</td><td>0.06</td><td>0.19</td><td>QP</td></tr><tr><td>5</td><td>0.258</td><td>31.30</td><td>51.51</td><td>-20.21</td><td>21.33</td><td>9.68</td><td>0.06</td><td>0.23</td><td>Average</td></tr><tr><td>6</td><td>0.258</td><td>39.18</td><td>61.51</td><td>-22.33</td><td>29.21</td><td>9.68</td><td>0.06</td><td>0.23</td><td>QP</td></tr><tr><td>7*</td><td>0.393</td><td>32.70</td><td>47.99</td><td>-15.29</td><td>22.67</td><td>9.67</td><td>0.06</td><td>0.30</td><td>Average</td></tr><tr><td>8</td><td>0.393</td><td>41.92</td><td>57.99</td><td>-16.07</td><td>31.89</td><td>9.67</td><td>0.06</td><td>0.30</td><td>QP</td></tr><tr><td>9</td><td>3.364</td><td>19.89</td><td>46.00</td><td>-26.11</td><td>9.62</td><td>9.70</td><td>0.17</td><td>0.40</td><td>Average</td></tr><tr><td>10</td><td>3.364</td><td>28.19</td><td>56.00</td><td>-27.81</td><td>17.92</td><td>9.70</td><td>0.17</td><td>0.40</td><td>QP</td></tr><tr><td>11</td><td>16.661</td><td>21.77</td><td>50.00</td><td>-28.23</td><td>11.07</td><td>9.73</td><td>0.47</td><td>0.50</td><td>Average</td></tr><tr><td>12</td><td>16.661</td><td>27.02</td><td>60.00</td><td>-32.98</td><td>16.32</td><td>9.73</td><td>0.47</td><td>0.50</td><td>QP</td></tr></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.159	35.38	55.52	-20.14	25.46	9.68	0.06	0.18	Average	2	0.159	46.74	65.52	-18.78	36.82	9.68	0.06	0.18	QP	3	0.204	32.62	53.45	-20.83	22.69	9.68	0.06	0.19	Average	4	0.204	41.10	63.45	-22.35	31.17	9.68	0.06	0.19	QP	5	0.258	31.30	51.51	-20.21	21.33	9.68	0.06	0.23	Average	6	0.258	39.18	61.51	-22.33	29.21	9.68	0.06	0.23	QP	7*	0.393	32.70	47.99	-15.29	22.67	9.67	0.06	0.30	Average	8	0.393	41.92	57.99	-16.07	31.89	9.67	0.06	0.30	QP	9	3.364	19.89	46.00	-26.11	9.62	9.70	0.17	0.40	Average	10	3.364	28.19	56.00	-27.81	17.92	9.70	0.17	0.40	QP	11	16.661	21.77	50.00	-28.23	11.07	9.73	0.47	0.50	Average	12	16.661	27.02	60.00	-32.98	16.32	9.73	0.47	0.50	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
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Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																																					

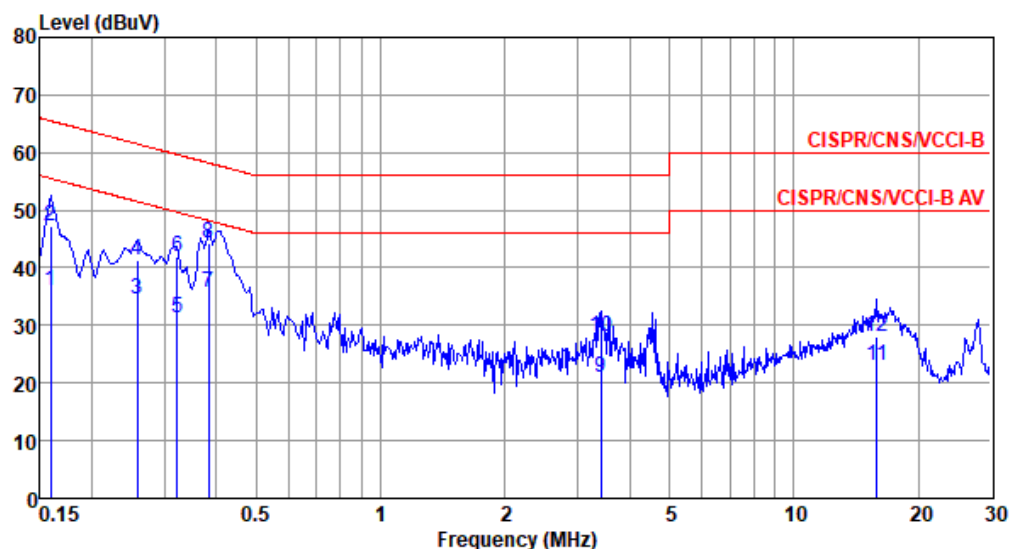


Modulation Mode	VHT20	Test Freq. (MHz)	5745
Power Phase	Neutral		

Test by : Brad Wu

Temperature: 21°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	0.159	36.07	55.52	-19.45	26.22	9.61	0.06	0.18	Average
2	0.159	47.34	65.52	-18.18	37.49	9.61	0.06	0.18	QP
3	0.258	34.43	51.51	-17.08	24.53	9.61	0.06	0.23	Average
4	0.258	41.32	61.51	-20.19	31.42	9.61	0.06	0.23	QP
5	0.322	31.23	49.66	-18.43	21.29	9.61	0.06	0.27	Average
6	0.322	41.96	59.66	-17.70	32.02	9.61	0.06	0.27	QP
7*	0.383	35.74	48.21	-12.47	25.78	9.61	0.06	0.29	Average
8	0.383	44.32	58.21	-13.89	34.36	9.61	0.06	0.29	QP
9	3.417	20.93	46.00	-25.07	10.71	9.64	0.17	0.41	Average
10	3.417	28.17	56.00	-27.83	17.95	9.64	0.17	0.41	QP
11	15.885	23.04	50.00	-26.96	12.33	9.76	0.45	0.50	Average
12	15.885	28.16	60.00	-31.84	17.45	9.76	0.45	0.50	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).