

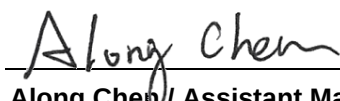
FCC Test Report

FCC ID : JVPVS10R
Equipment : InstaShow Host
Model No. : VS10R
Brand Name : BenQ
Applicant : BenQ Corporation
Address : 16 Jihu Road, Neihu, Taipei 114, Taiwan
Standard : 47 CFR FCC Part 15.407
Received Date : Oct. 30, 2023
Tested Date : Nov. 03 ~ Nov. 14, 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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Release Record

Report No.	Version	Description	Issued Date
FR380402-01AN	Rev. 01	Initial issue	Nov. 28, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.396MHz 40.15 (Margin -7.80dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 52.99 (Margin -1.01dB) - 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: 25.33 5725~5850MHz: 26.92	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, 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.					

1.1.2 Antenna Details

Configuration 1

Ant. No.	Brand / Model	Type	Connector	Operating Freq. (MHz / Gain (dBi))		Remarks
				5150~5250	5725~5850	
1	Invax / AN5800-5546BRS	Dipole	RP-SMA(M)	2.46	3.01	WF2 port
2	Invax / AN5800-5546BRS	Dipole	RP-SMA(M)	2.46	3.01	WF3 port
3	VSO/JR7Q00292	PIFA	I-PEX	2.2	2.9	WF0 port
4	VSO/JR7Q00292	PIFA	I-PEX	2.9	2.3	WF1 port

Configuration 2

Ant. No.	Brand / Model	Type	Connector	Operating Freq. (MHz / Gain (dBi))		Remarks
				5150~5250	5725~5850	
1	Invax / AN5800-5546BRS	Dipole	RP-SMA(M)	2.46	3.01	WF2 port
2	Invax / AN5800-5546BRS	Dipole	RP-SMA(M)	2.46	3.01	WF3 port
3	EGRET / ET72-004	PIFA	I-PEX	2.188	2.766	WF0 port
4	EGRET / ET72-004	PIFA	I-PEX	2.481	2.083	WF1 port

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: BILLION Model: DCT24W120200ZZ-A0 I/P: 100-240Vac, 50/60Hz, 0.7A max O/P: 12.0Vdc, 2.0A 24.0W Power Line: 1.5m non-shielded without core
2	HDMI Cable	0.8m shielded without core

1.1.5 Channel List

802.11n 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: V4.89		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ac VHT20	87.22%	0.59
	ac VHT40	78.04%	1.08
	ac VHT80	84.27%	0.74

1.1.7 Power Index of Test Tool

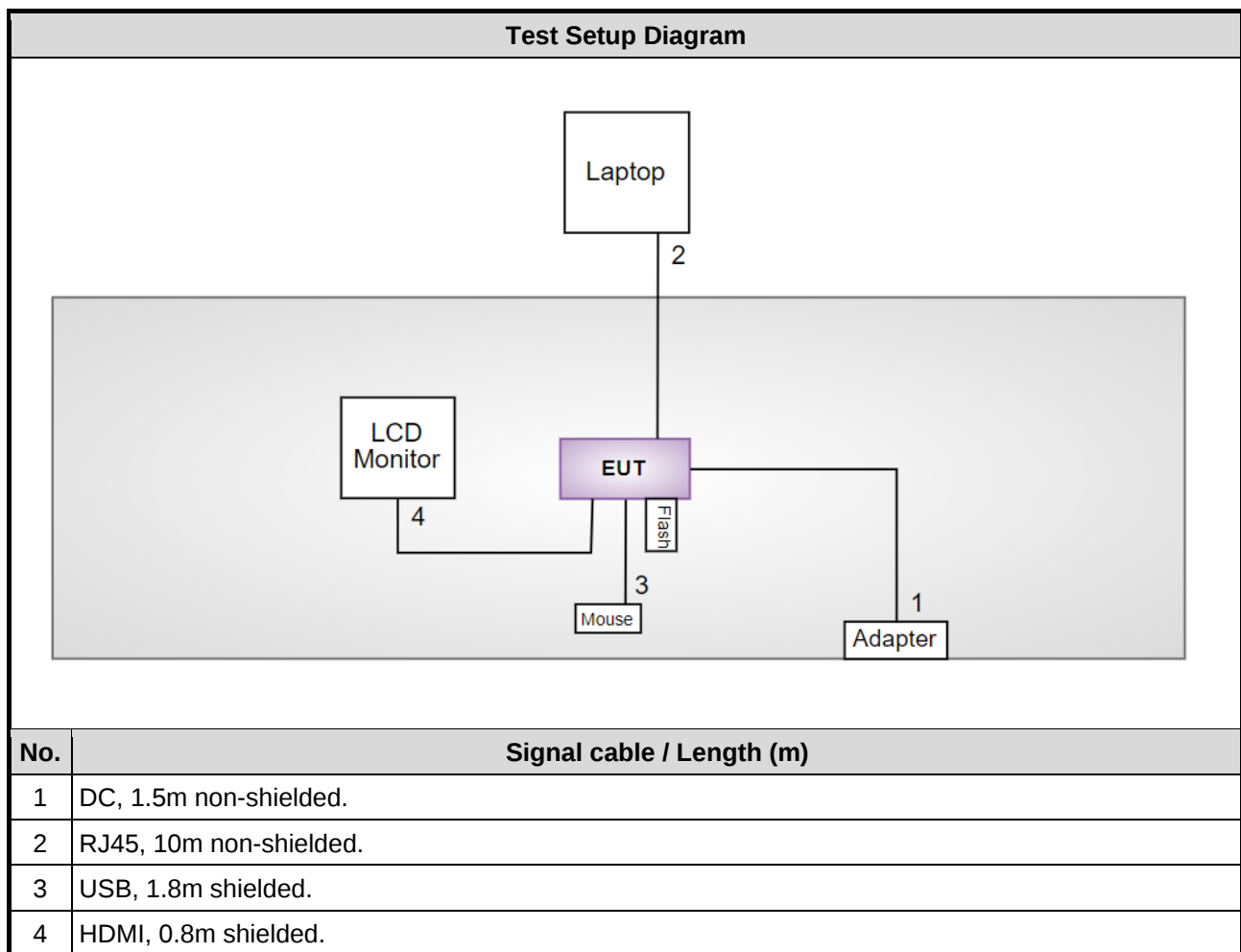
Modulation Mode	Test Frequency (MHz)	Power Index
ac VHT20	5180	22
ac VHT20	5200	26
ac VHT20	5240	34
ac VHT20	5745	40
ac VHT20	5785	40
ac VHT20	5825	40
ac VHT40	5190	13
ac VHT40	5230	27
ac VHT40	5755	32
ac VHT40	5795	34
ac VHT80	5210	13
ac VHT80	5775	21

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude E5470	DoC	---
2	Mouse	DELL	MS111-L	---	---
3	LCD Monitor	ASUS	MX27UCS	---	---
4	USB 3.0 Flash	Transcend	JetFlash 700	---	---
5	USB Fixture	---	---	---	---

Note: The fixture is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Nov. 14, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 11, 2023	Oct. 10, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 03, 2023	Jan. 02, 2024
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024
Measurement Software	Sporton	SENSE-EMI	V5.11.6	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Nov. 03 ~ Nov. 09, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Spectrum Analyzer	R&S	FSV40	101499	Mar. 16, 2023	Mar. 15, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 04, 2023	Jul. 03, 2024
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 9170508	Dec. 30, 2022	Dec. 29, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 10, 2023	Jul. 09, 2024
Preamplifier	EMC	EMC118A45SE	980897	Aug. 01, 2023	Jul. 31, 2024
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 03, 2023	Oct. 02, 2024
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 22, 2023	Sep. 21, 2024
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 22, 2023	Sep. 21, 2024
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 22, 2023	Sep. 21, 2024
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 22, 2023	Sep. 21, 2024
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 22, 2023	Sep. 21, 2024
HIGHPASS FILTER	K&L	11SH10-7000/T18000-O/OP	21	Sep. 27, 2023	Sep. 26, 2024
Attenuator	Pasternack	PE7005-10	10-3	Sep. 27, 2023	Sep. 26, 2024
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	Nov. 10, 2023 ~ Nov. 14, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
Attenuator	Pasternack	PE7005-10	10-2	Oct. 05, 2023	Oct. 04, 2024
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 21, 2023	Jun. 20, 2024
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 09, 2022	Dec. 08, 2023
Measurement Software	Sporton	SENSE-15407_NII	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

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

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.96 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
- 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
AC Power Line Conducted Emission	ac VHT20	5240	MCS 0	---
Unwanted Emissions ≤1GHz	ac VHT20	5240	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 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
AC Power Line Conducted Emission	ac VHT20	5745	MCS 0	---
Unwanted Emissions ≤1GHz	ac VHT20	5745	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 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 Z-plane results were found as the worst case and were shown in this report.				
2. EUT is tested with antenna configuration 1 since antenna configuration 1 has higher antenna gain.				

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.

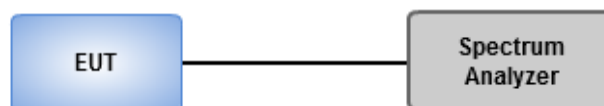
Occupied Bandwidth

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	22~23°C / 66~68%	Tested By	Brad Wu
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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

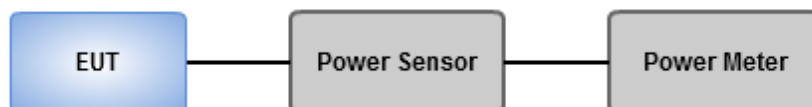
Frequency Band (MHz)	Limit
☒ 5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.	

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	22~23°C / 66~68%	Tested By	Brad Wu
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

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

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

3.3.2 Test Procedures

For 5150 ~ 5250 MHz

Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
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

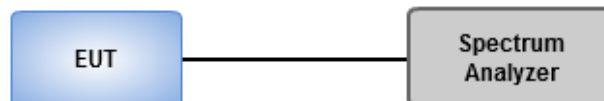
Duty cycle $\geq 98\%$

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	22~23°C / 66~68%	Tested By	Brad Wu
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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

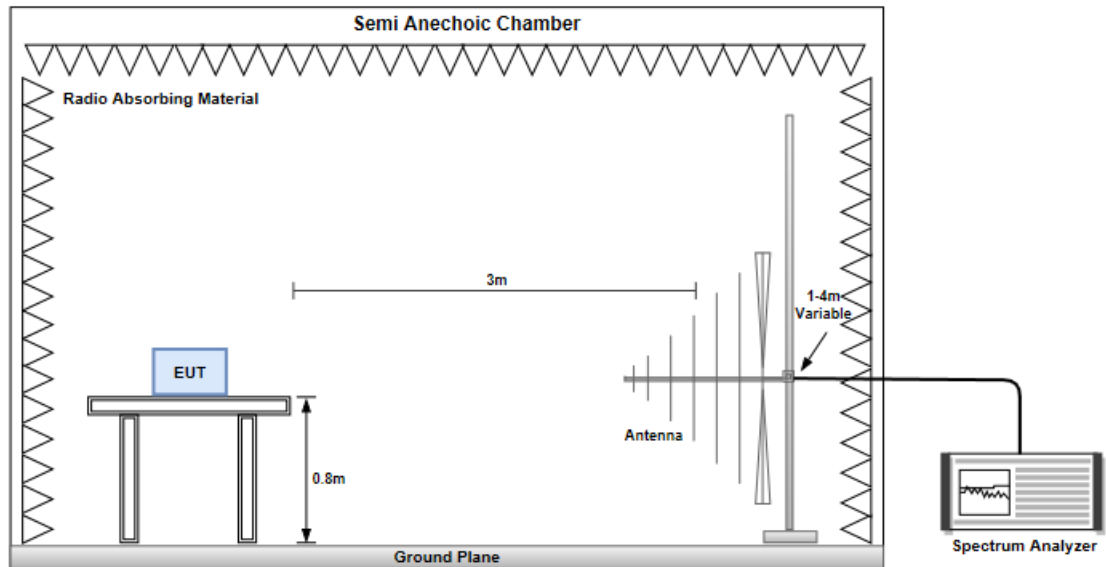
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

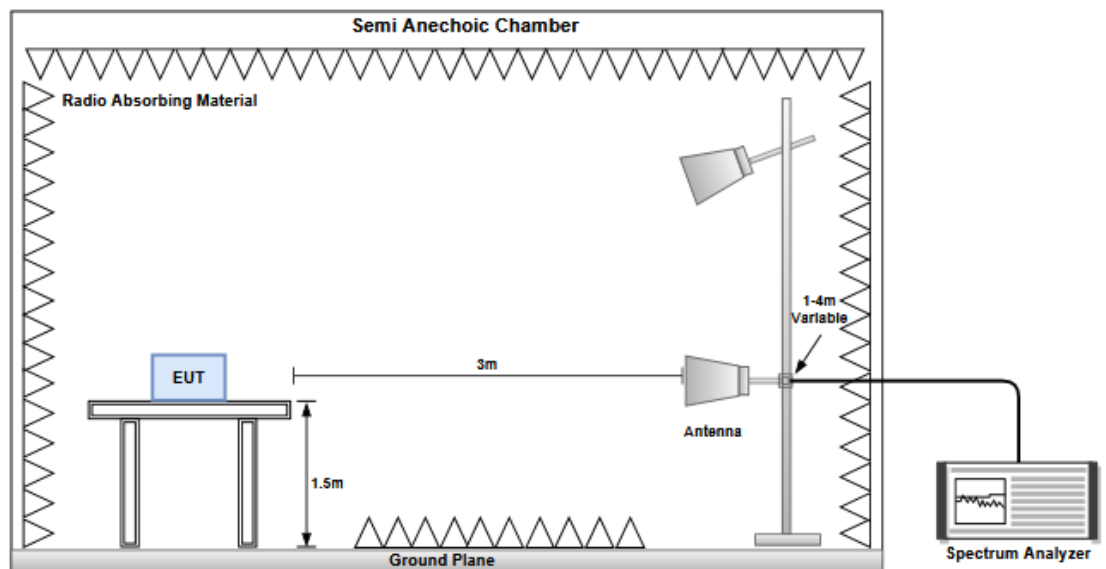
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

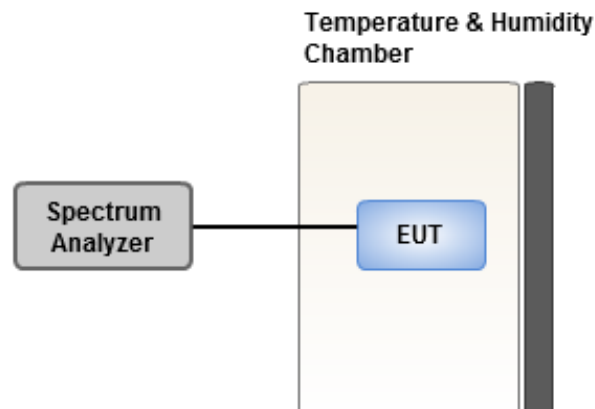
3.5.1 Limit of Frequency Stability

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	22~23°C / 66~68%	Tested By	Brad Wu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

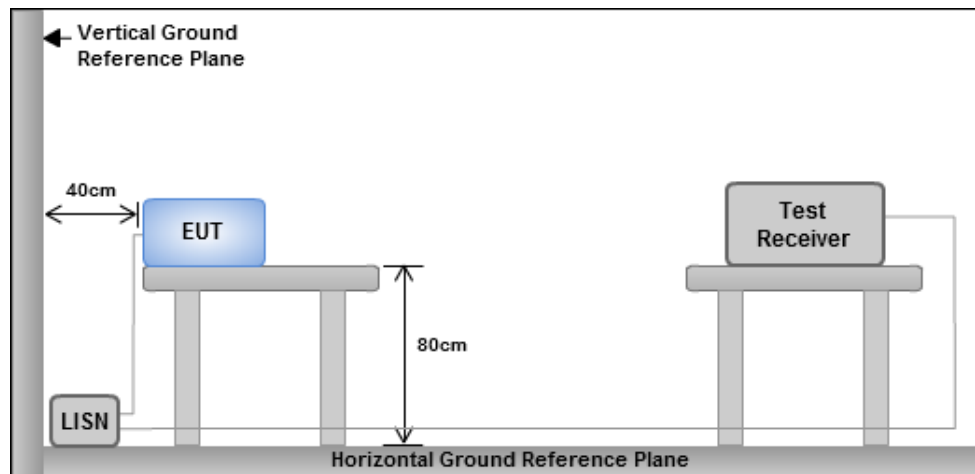
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



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

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

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

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	35.772M	18.321M	18M3D1D	19.866M	17.481M
802.11ac VHT40_Nss4,(MCS0)_4TX	52.14M	36.282M	36M3D1D	39.468M	35.982M
802.11ac VHT80_Nss4,(MCS0)_4TX	80.52M	74.963M	75M0D1D	79.992M	74.963M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	15.18M	26.507M	26M5D1D	13.794M	19.28M
802.11ac VHT40_Nss4,(MCS0)_4TX	35.112M	36.522M	36M5D1D	35.112M	36.282M
802.11ac VHT80_Nss4,(MCS0)_4TX	74.976M	74.963M	75M0D1D	64.944M	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)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.196M	17.661M	19.932M	17.571M	19.866M	17.481M	19.932M	17.571M
5200MHz	Pass	Inf	20.724M	17.751M	19.932M	17.571M	20.13M	17.541M	19.932M	17.571M
5240MHz	Pass	Inf	35.64M	18.321M	25.806M	17.661M	35.772M	17.991M	26.598M	17.751M
5745MHz	Pass	500k	15.18M	20.9M	15.18M	26.357M	15.114M	24.438M	15.048M	19.28M
5785MHz	Pass	500k	15.114M	20.75M	13.794M	26.507M	15.18M	24.648M	15.18M	19.31M
5825MHz	Pass	500k	15.048M	22.489M	15.114M	25.427M	15.048M	25.397M	15.048M	19.61M
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.996M	36.042M	39.468M	36.102M	39.864M	35.982M	39.6M	36.042M
5230MHz	Pass	Inf	48.972M	36.282M	39.6M	36.102M	52.14M	36.162M	40.128M	36.102M
5755MHz	Pass	500k	35.112M	36.342M	35.112M	36.522M	35.112M	36.342M	35.112M	36.342M
5795MHz	Pass	500k	35.112M	36.342M	35.112M	36.462M	35.112M	36.282M	35.112M	36.342M
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.52M	74.963M	79.992M	74.963M	80.256M	74.963M	79.992M	74.963M
5775MHz	Pass	500k	71.28M	74.963M	73.656M	74.963M	74.976M	74.963M	64.944M	74.843M

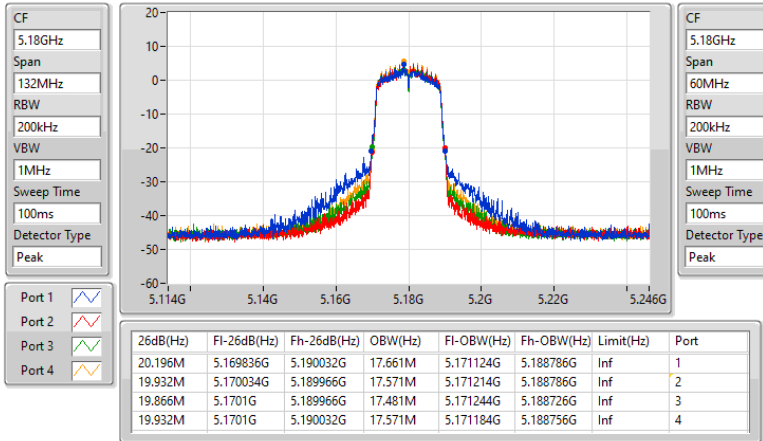
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

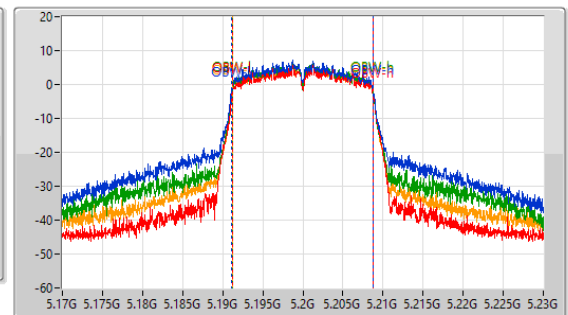
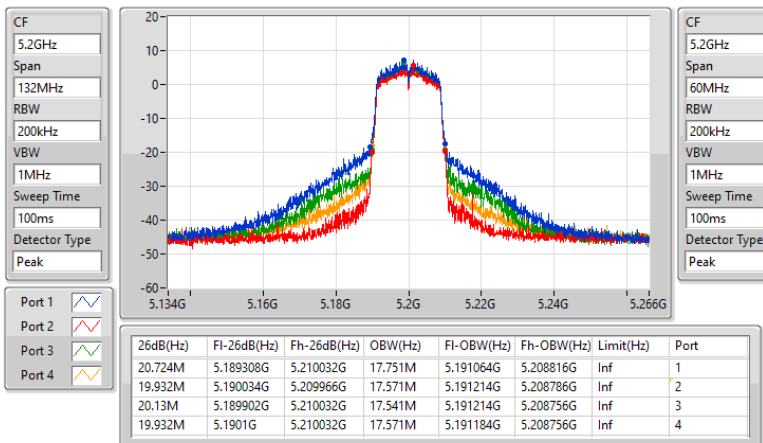
5180MHz



5.15-5.25GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

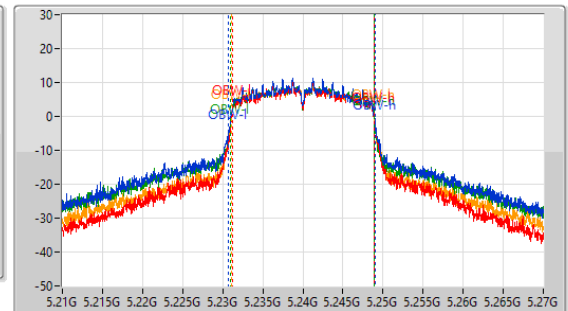
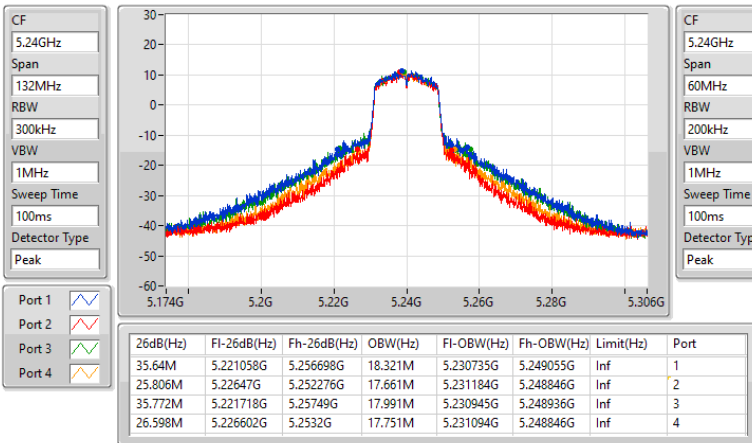
5200MHz



5.15-5.25GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

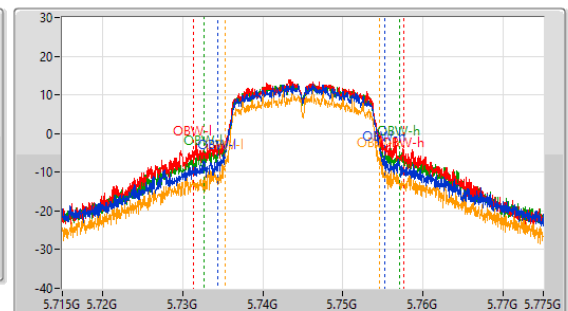
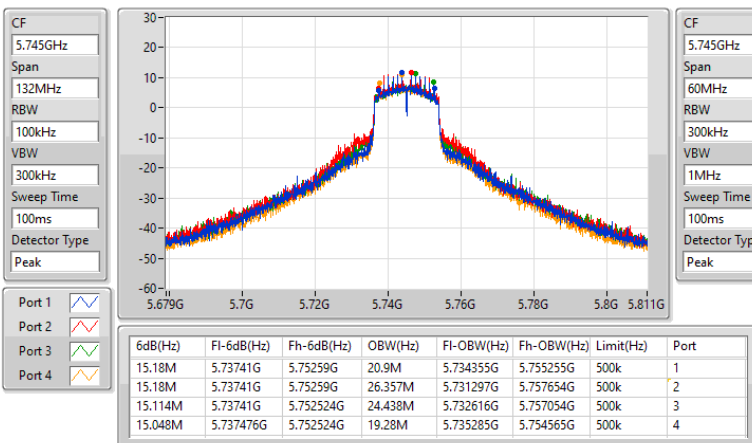
5240MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

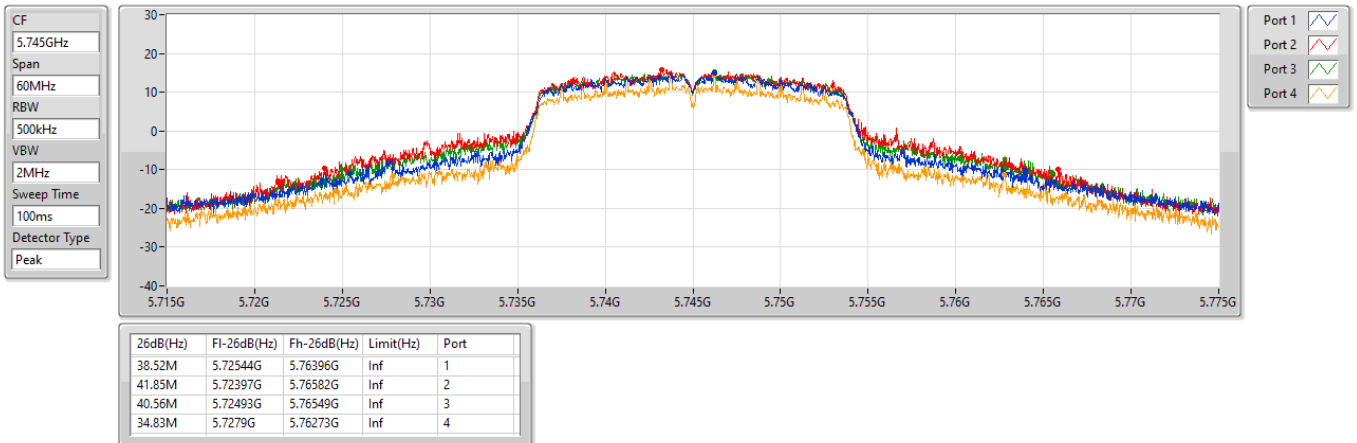
5745MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

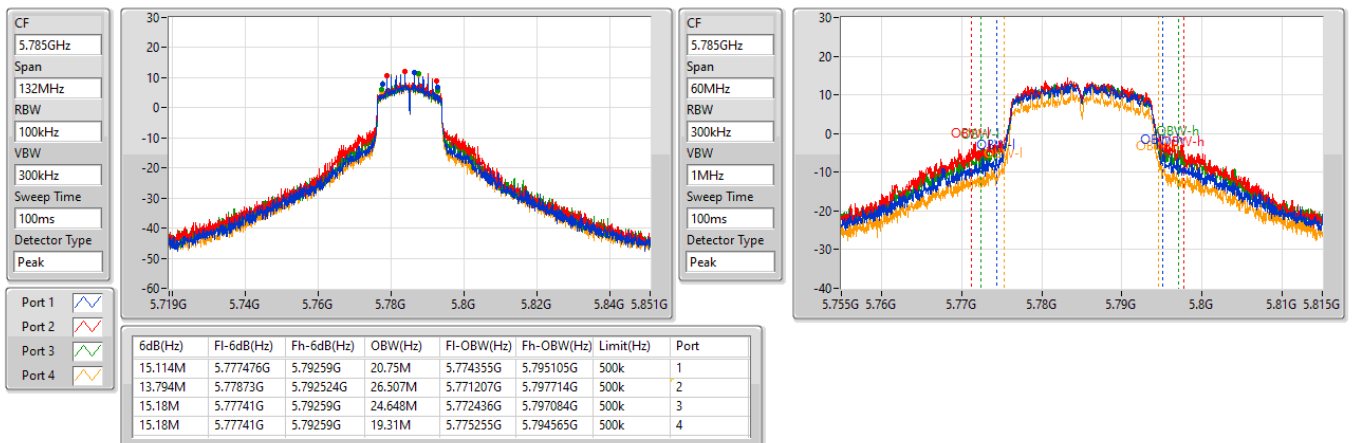
5745MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

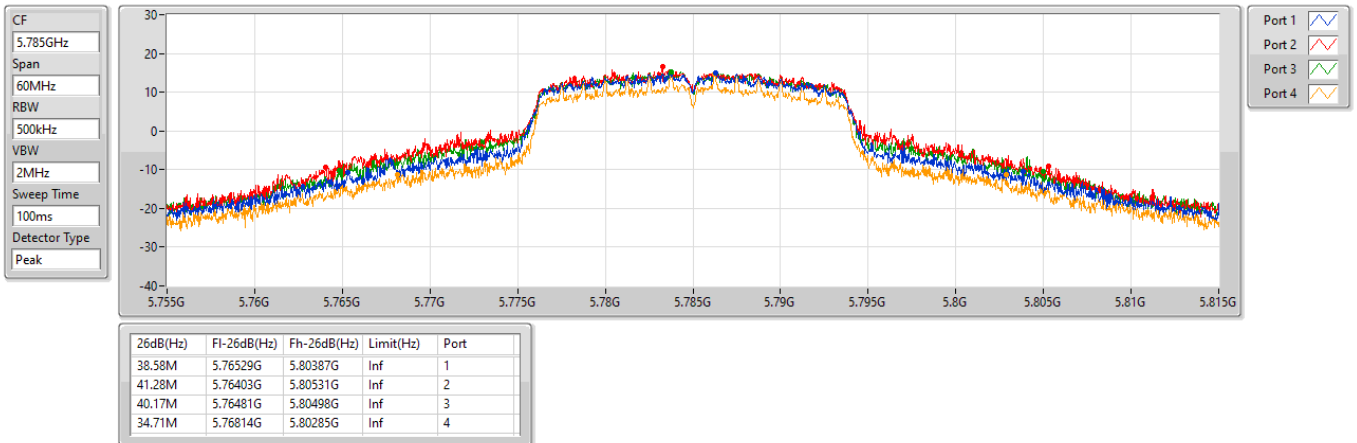
5785MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

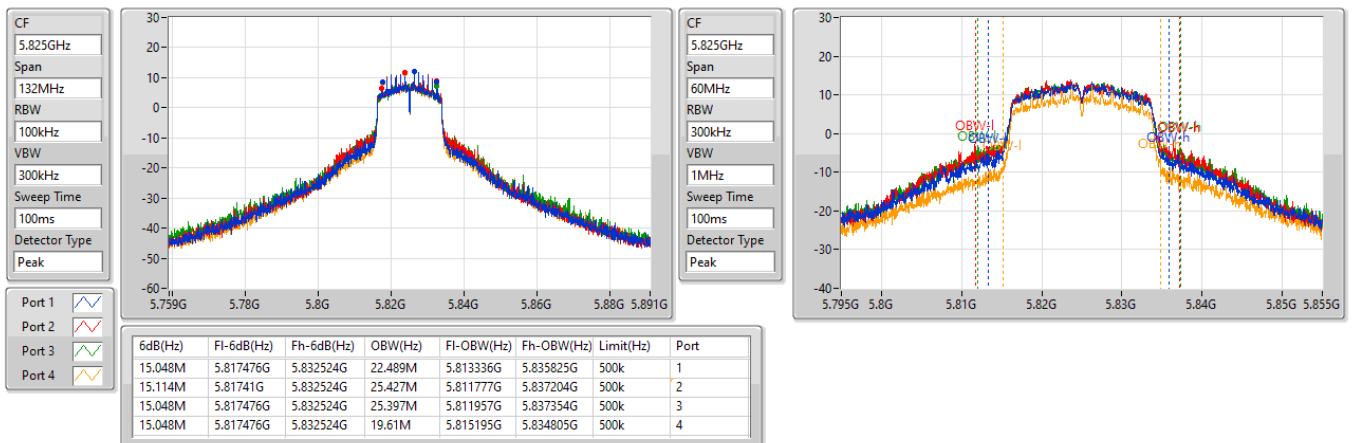
5785MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

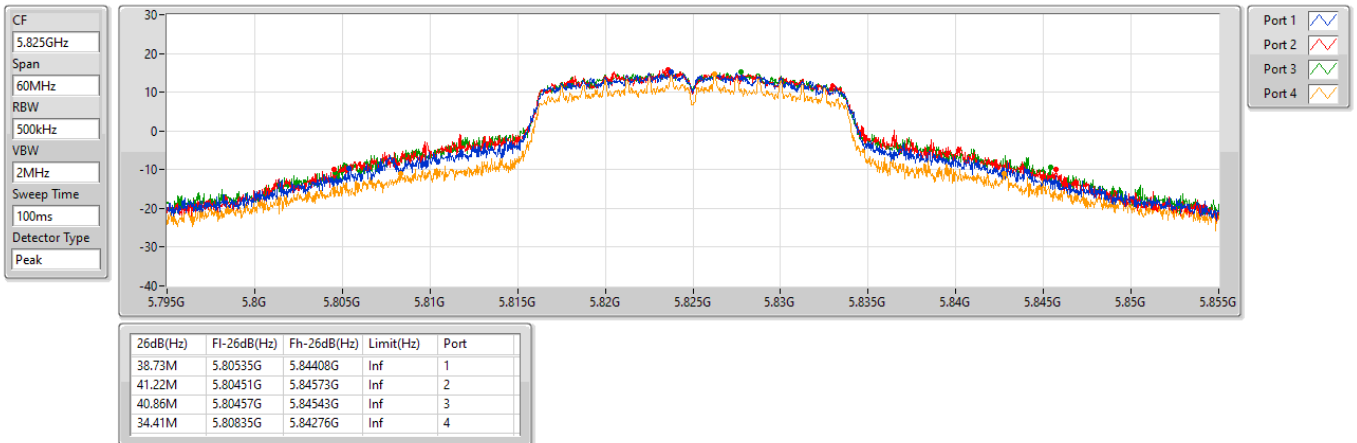
5825MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

EBW

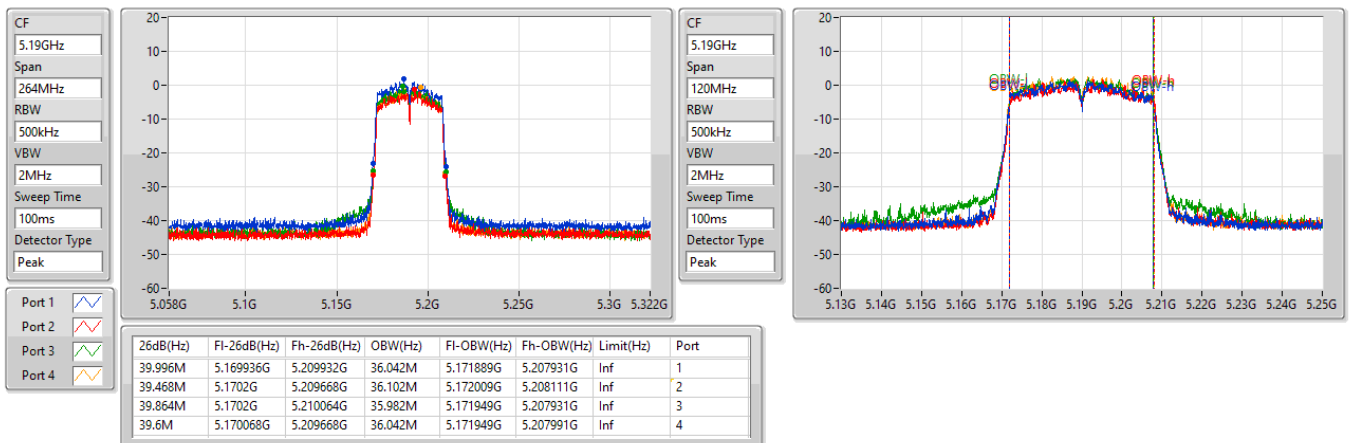
5825MHz



5.15-5.25GHz_802.11ac_VHT40_Nss4,(MCS0)_4TX

EBW

5190MHz

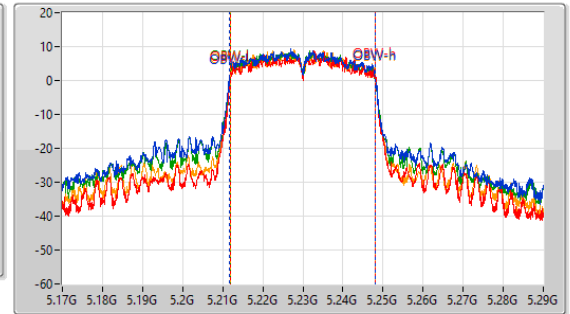
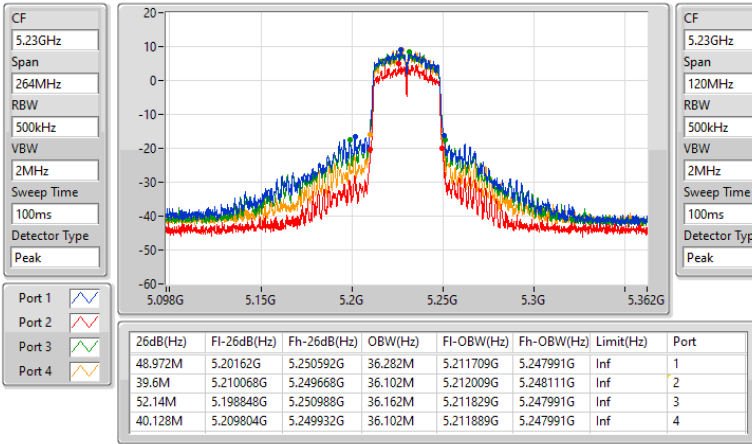




5.15-5.25GHz_802.11ac_VHT40_Nss4,(MCS0)_4TX

EBW

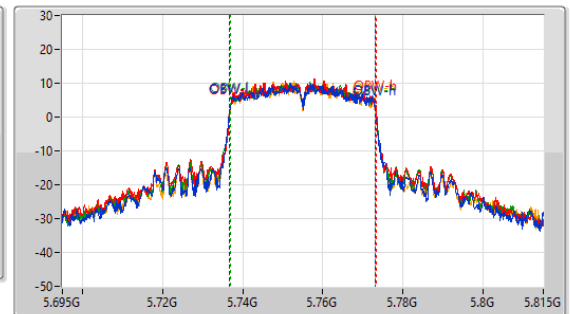
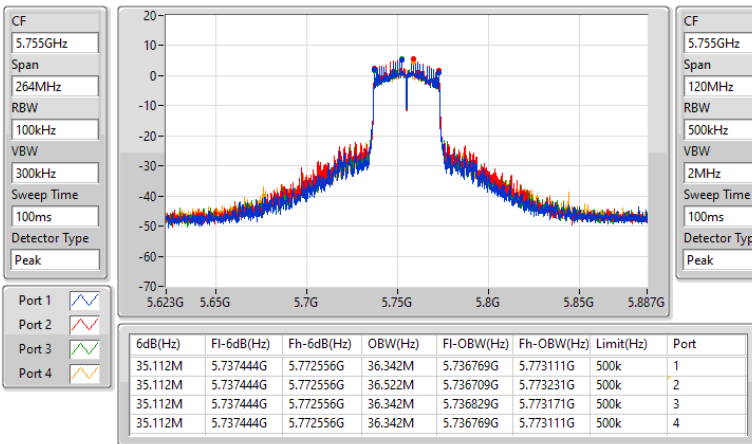
5230MHz



5.725-5.85GHz_802.11ac_VHT40_Nss4,(MCS0)_4TX

EBW

5755MHz

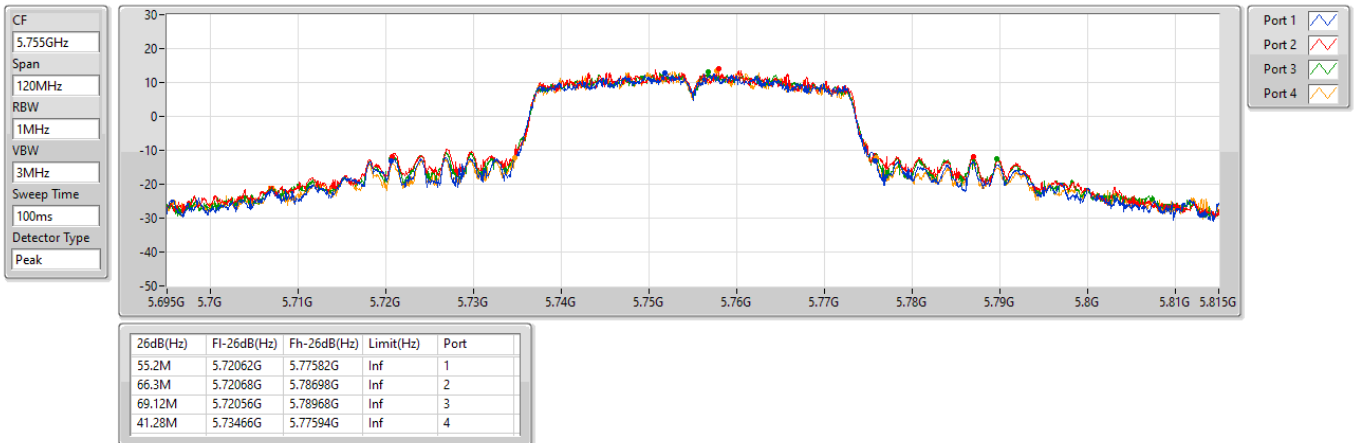




5.725-5.85GHz_802.11ac_VHT40_Nss4,(MCS0)_4TX

EBW

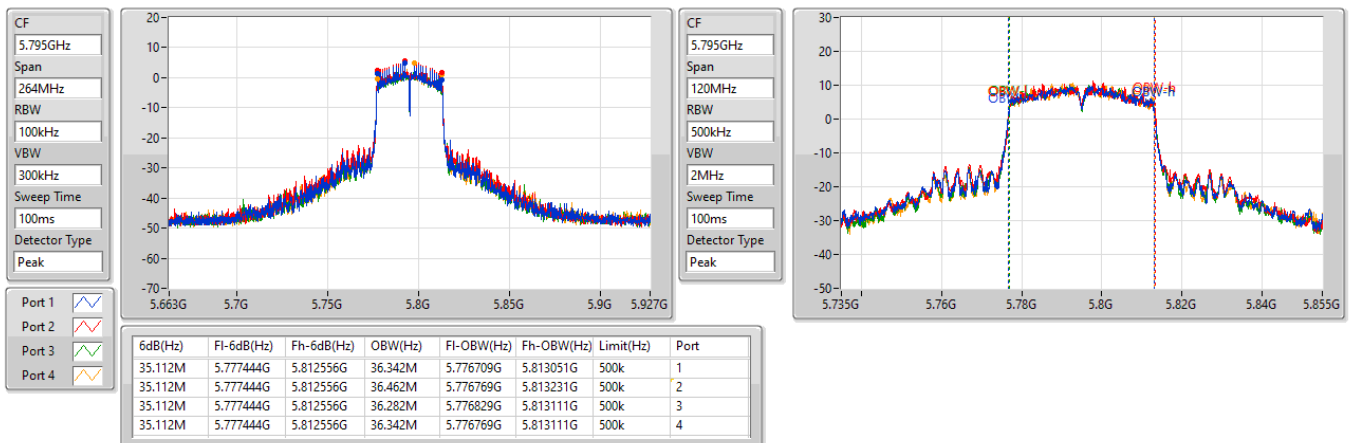
5755MHz



5.725-5.85GHz_802.11ac_VHT40_Nss4,(MCS0)_4TX

EBW

5795MHz

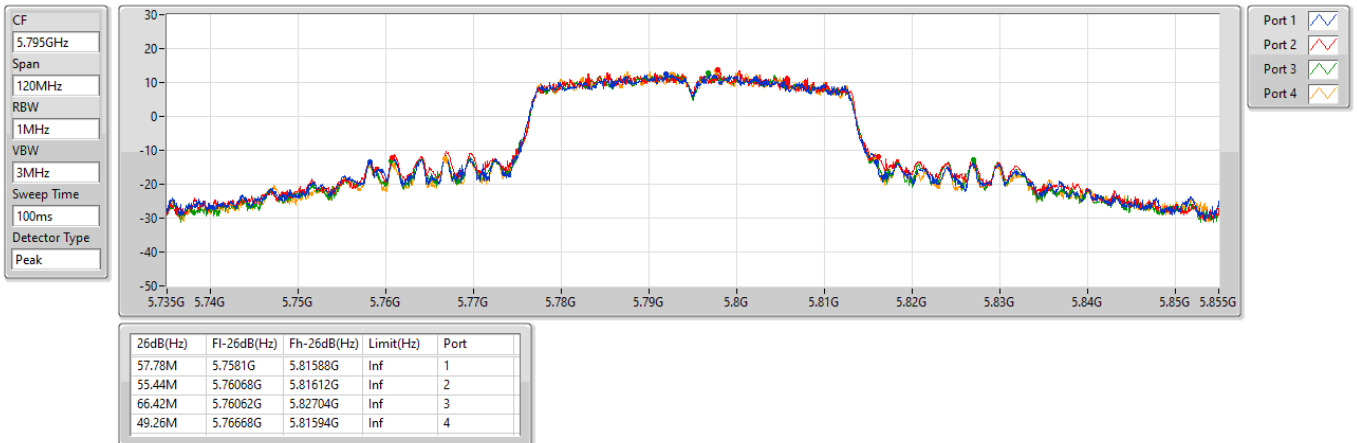




5.725-5.85GHz_802.11ac VHT40_Nss4,(MCS0)_4TX

EBW

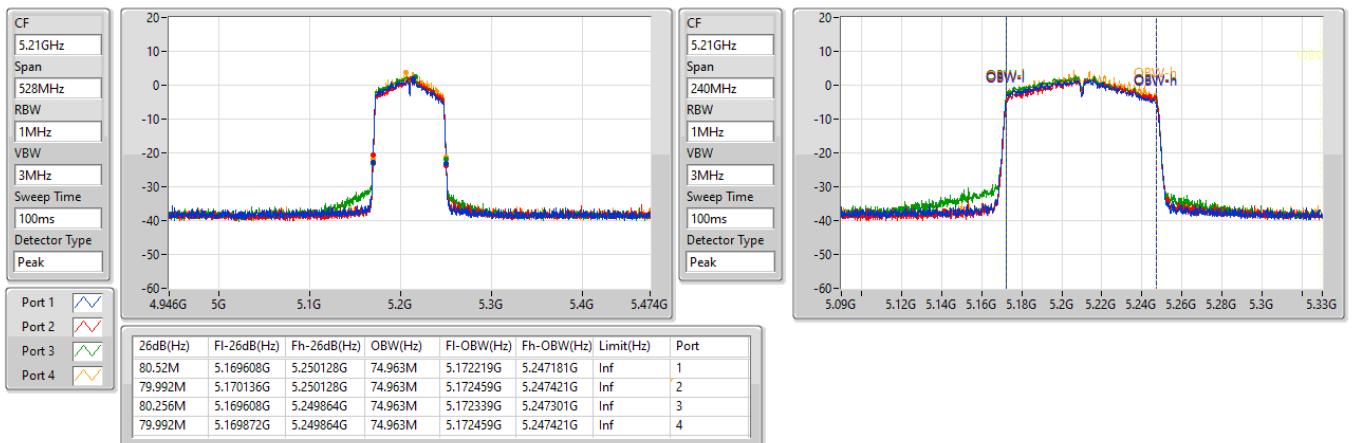
5795MHz



5.15-5.25GHz_802.11ac VHT80_Nss4,(MCS0)_4TX

EBW

5210MHz

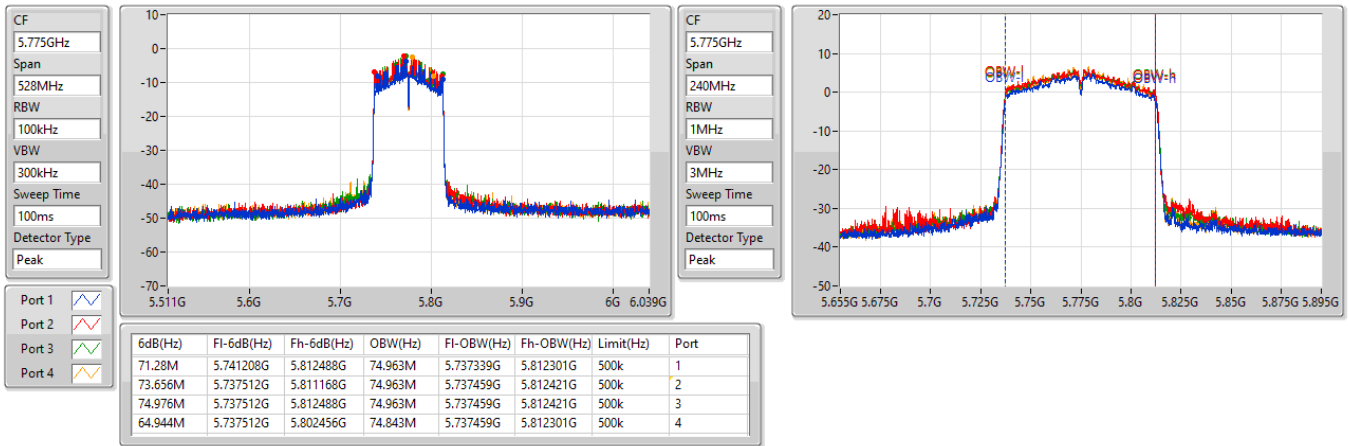




5.725-5.85GHz_802.11ac VHT80_Nss4,(MCS0)_4TX

EBW

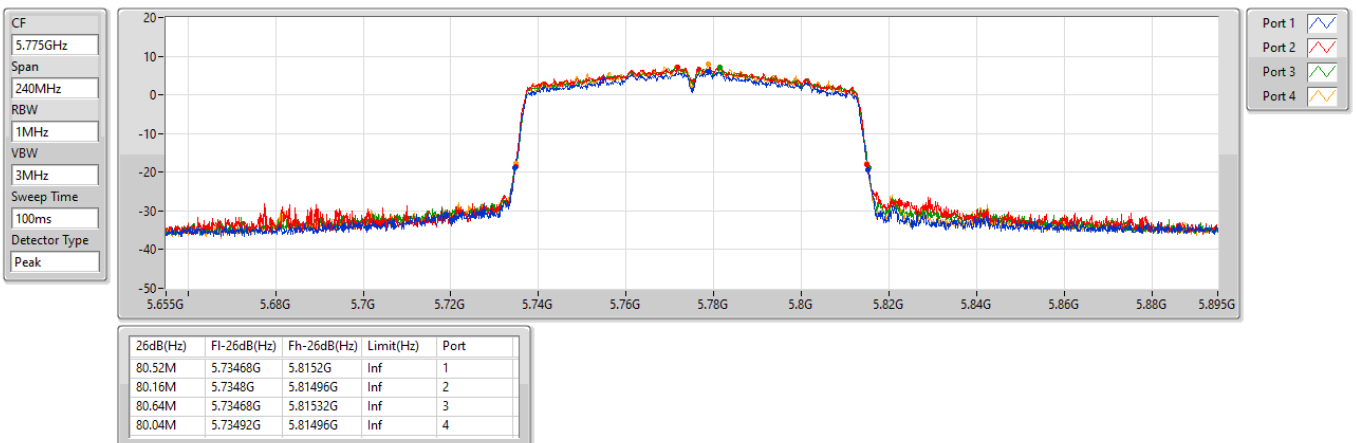
5775MHz



5.725-5.85GHz_802.11ac VHT80_Nss4,(MCS0)_4TX

EBW

5775MHz



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	25.33	0.34119	27.84	0.60814
802.11ac VHT40_Nss4,(MCS0)_4TX	22.33	0.17100	24.84	0.30479
802.11ac VHT80_Nss4,(MCS0)_4TX	15.70	0.03715	18.21	0.06622
5.725-5.85GHz	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	26.92	0.49204	29.73	0.93972
802.11ac VHT40_Nss4,(MCS0)_4TX	24.82	0.30339	27.63	0.57943
802.11ac VHT80_Nss4,(MCS0)_4TX	18.91	0.07780	21.72	0.14859

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.51	14.05	13.36	13.75	14.05	19.83	30.00	22.34	36.00
5200MHz	Pass	2.51	16.36	15.02	15.63	15.76	21.74	30.00	24.25	36.00
5240MHz	Pass	2.51	19.85	18.86	19.15	19.33	25.33	30.00	27.84	36.00
5745MHz	Pass	2.81	20.78	21.32	20.61	20.85	26.92	30.00	29.73	36.00
5785MHz	Pass	2.81	20.73	21.33	20.62	20.56	26.84	30.00	29.65	36.00
5825MHz	Pass	2.81	20.56	21.32	20.61	20.73	26.84	30.00	29.65	36.00
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	2.51	9.53	9.06	9.66	9.78	15.54	30.00	18.05	36.00
5230MHz	Pass	2.51	17.13	15.73	16.02	16.22	22.33	30.00	24.84	36.00
5755MHz	Pass	2.81	17.73	18.11	17.79	18.02	23.94	30.00	26.75	36.00
5795MHz	Pass	2.81	18.64	19.12	18.36	19.02	24.82	30.00	27.63	36.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.51	9.35	9.42	9.78	10.13	15.70	30.00	18.21	36.00
5775MHz	Pass	2.81	11.97	13.31	12.76	13.36	18.91	30.00	21.72	36.00

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

Directional Gain for 5150 ~ 5250 MHz = $10 \log[(10^{2.2/10} + 10^{2.9/10} + 10^{2.46/10} + 10^{2.46/10})/4] = 2.51 \text{ dBi}$

Directional Gain for 5725 ~ 5850 MHz = $10 \log[(10^{2.9/10} + 10^{2.3/10} + 10^{3.01/10} + 10^{3.01/10})/4] = 2.81 \text{ dBi}$

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	13.48	15.99
802.11ac VHT40_Nss4,(MCS0)_4TX	7.72	10.23
802.11ac VHT80_Nss4,(MCS0)_4TX	-1.87	0.64
5.725-5.85GHz	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	13.91	16.72
802.11ac VHT40_Nss4,(MCS0)_4TX	8.90	11.71
802.11ac VHT80_Nss4,(MCS0)_4TX	-0.04	2.77

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.51	1.89	2.10	2.11	3.04	8.22	17.00	10.73	23.00
5200MHz	Pass	2.51	4.33	3.22	3.99	3.80	9.81	17.00	12.32	23.00
5240MHz	Pass	2.51	7.85	7.20	7.50	7.71	13.48	17.00	15.99	23.00
5745MHz	Pass	2.81	7.61	8.22	7.77	7.59	13.70	30.00	16.51	36.00
5785MHz	Pass	2.81	7.81	8.37	8.17	7.55	13.91	30.00	16.72	36.00
5825MHz	Pass	2.81	7.95	8.14	8.08	7.55	13.84	30.00	16.65	36.00
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	2.51	-5.30	-5.82	-4.14	-4.59	0.94	17.00	3.45	23.00
5230MHz	Pass	2.51	2.43	0.99	2.21	1.53	7.72	17.00	10.23	23.00
5755MHz	Pass	2.81	1.76	2.15	2.21	1.81	7.83	30.00	10.64	36.00
5795MHz	Pass	2.81	2.84	3.33	3.09	2.49	8.90	30.00	11.71	36.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.51	-8.11	-8.31	-7.13	-7.25	-1.87	17.00	0.64	23.00
5775MHz	Pass	2.81	-6.81	-5.70	-5.48	-5.93	-0.04	30.00	2.77	36.00

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

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

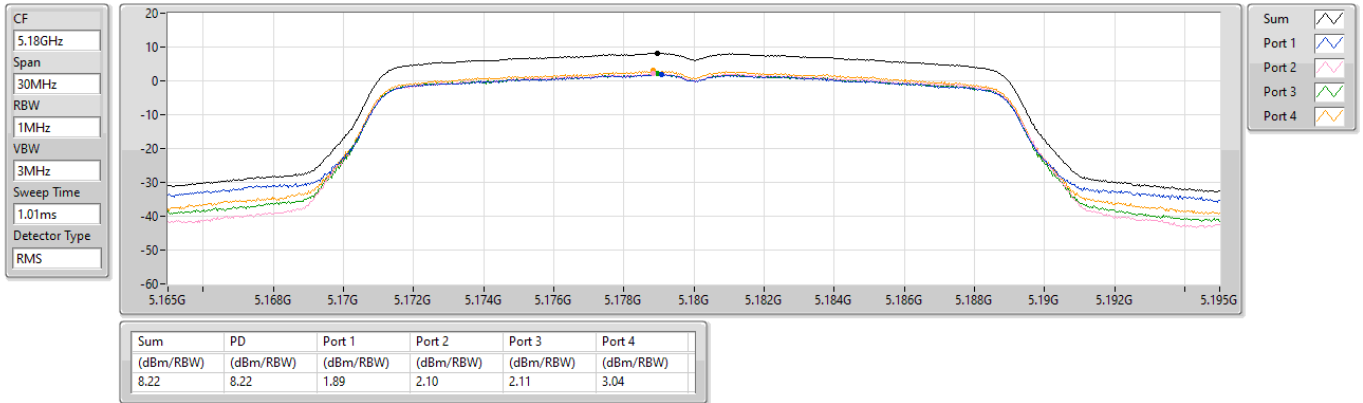
Directional Gain for 5150 ~ 5250 MHz = $10 \log[(10^{2.2/10} + 10^{2.9/10} + 10^{2.46/10} + 10^{2.46/10})/4] = 2.51 \text{ dBi}$

Directional Gain for 5725 ~ 5850 MHz = $10 \log[(10^{2.9/10} + 10^{2.3/10} + 10^{3.01/10} + 10^{3.01/10})/4] = 2.81 \text{ dBi}$

5.15-5.25GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

PSD

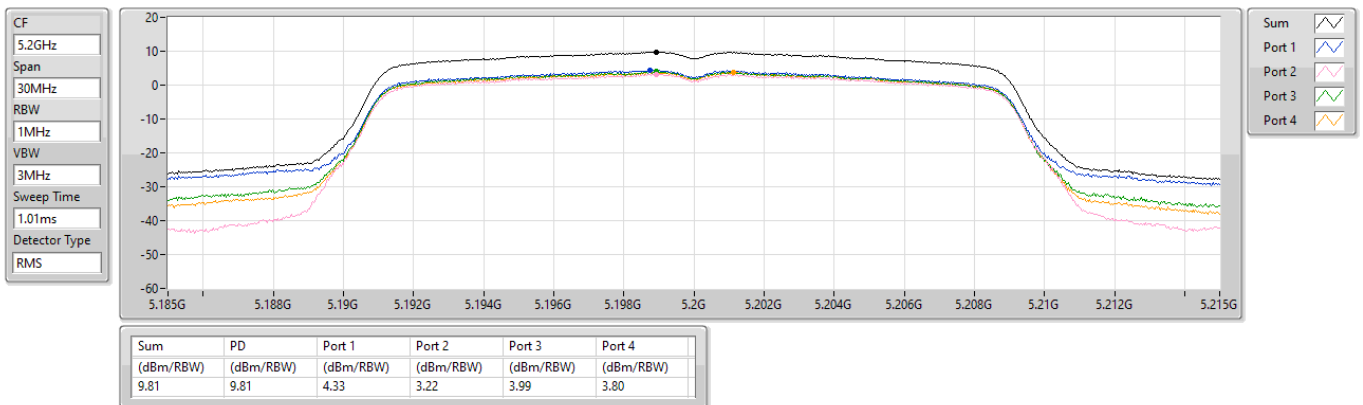
5180MHz



5.15-5.25GHz_802.11ac_VHT20_Nss4,(MCS0)_4TX

PSD

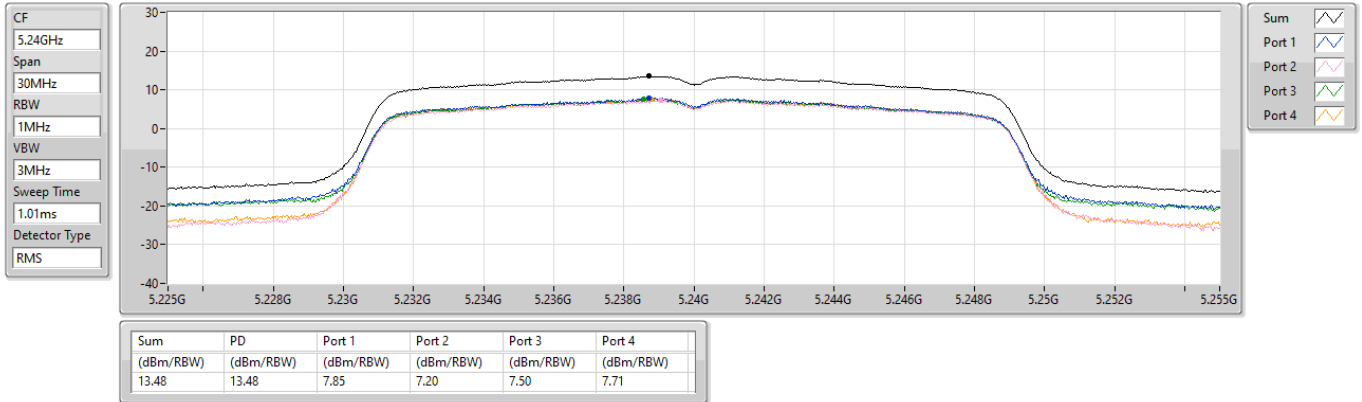
5200MHz



5.15-5.25GHz_802.11ac VHT20_Nss4,(MCS0)_4TX

PSD

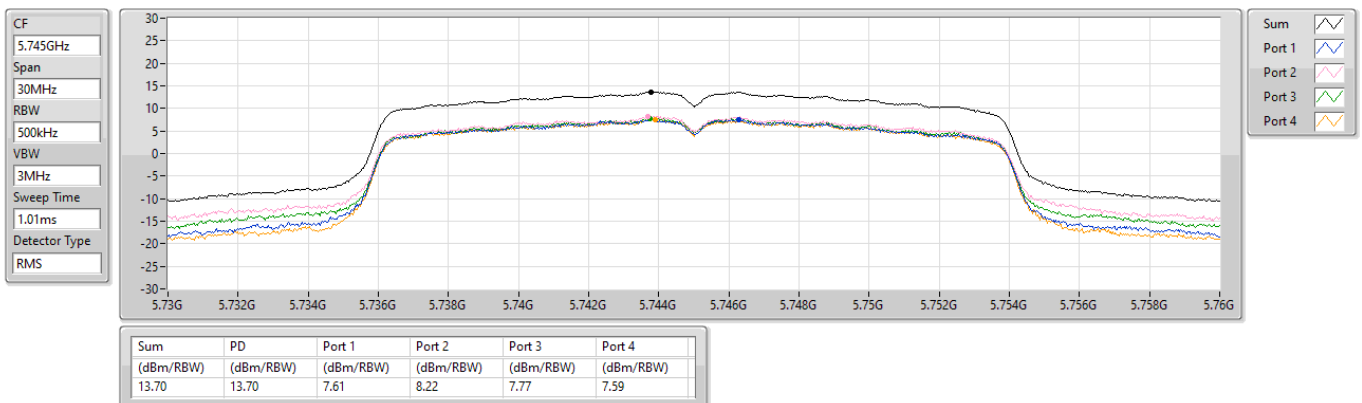
5240MHz



5.725-5.85GHz_802.11ac VHT20_Nss4,(MCS0)_4TX

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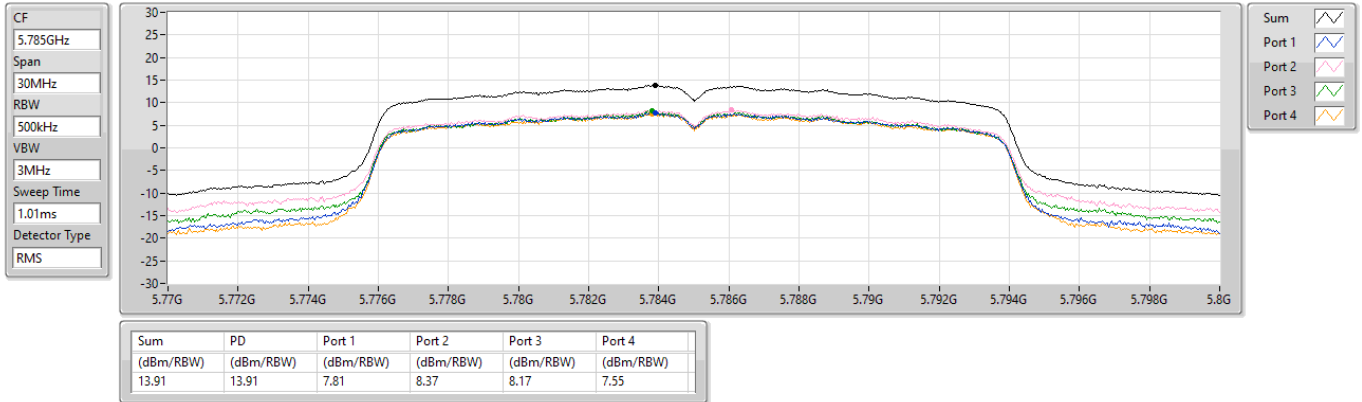
5745MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4_(MCS0)_4TX

PSD

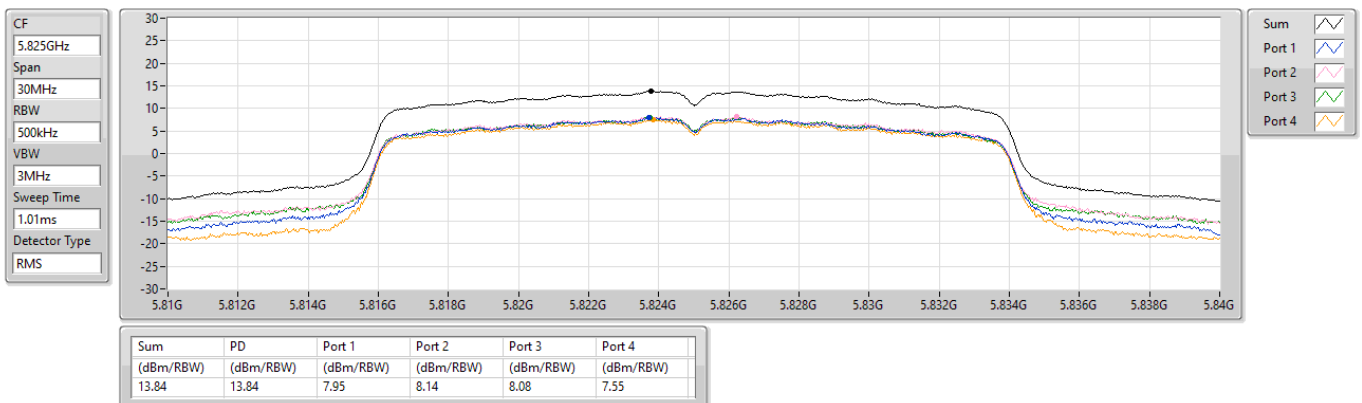
5785MHz



5.725-5.85GHz_802.11ac_VHT20_Nss4_(MCS0)_4TX

PSD

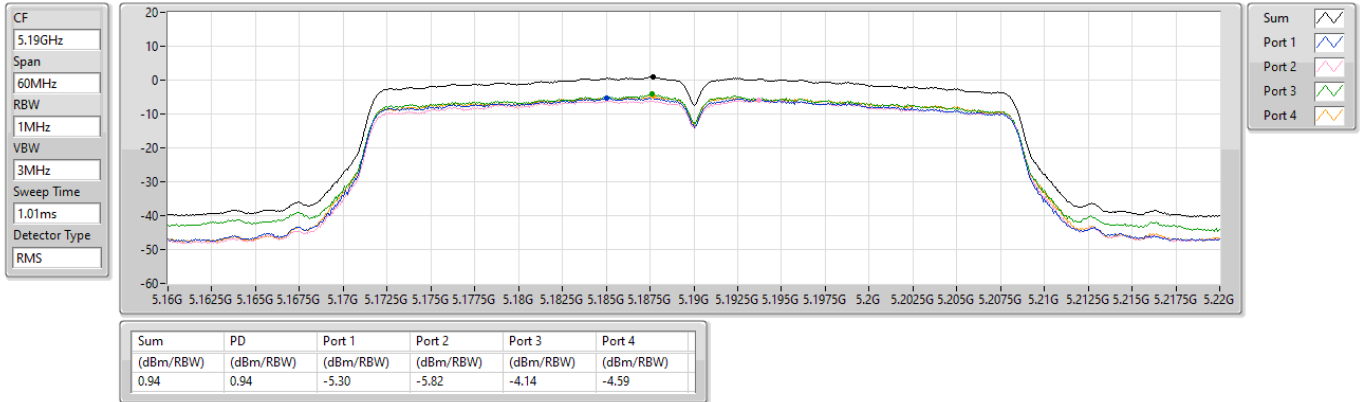
5825MHz



5.15-5.25GHz_802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

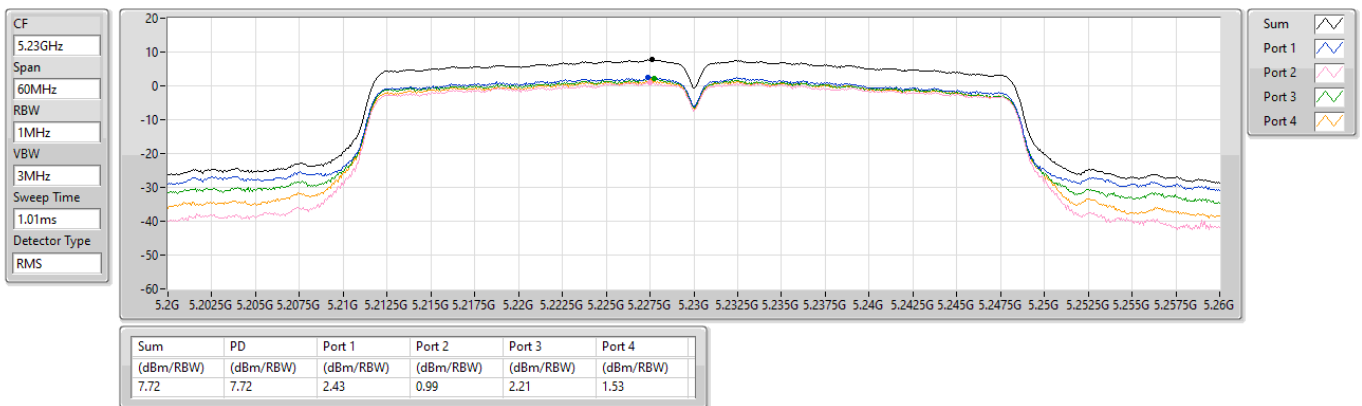
5190MHz



5.15-5.25GHz_802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

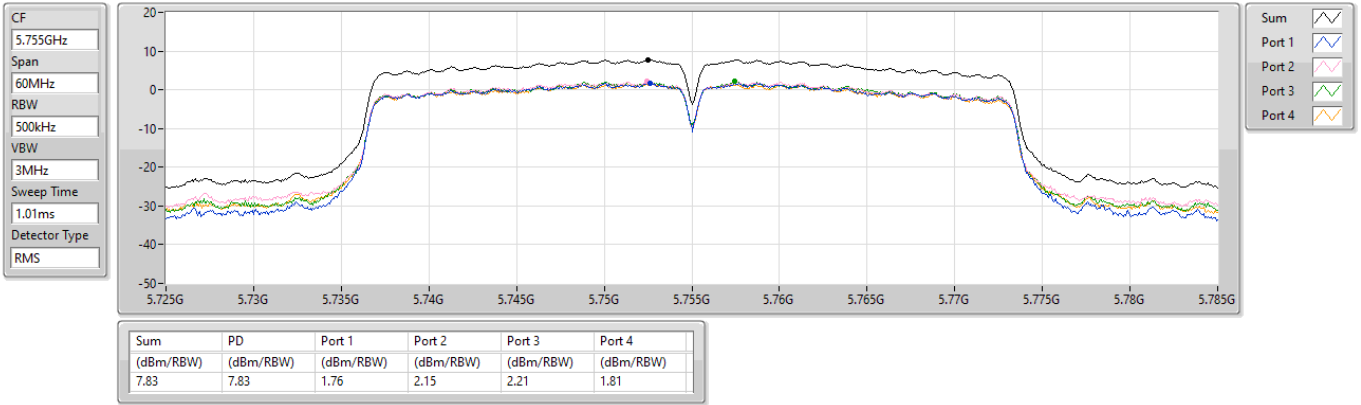
5230MHz



5.725-5.85GHz_802.11ac_VHT40_Nss4_(MCS0)_4TX

PSD

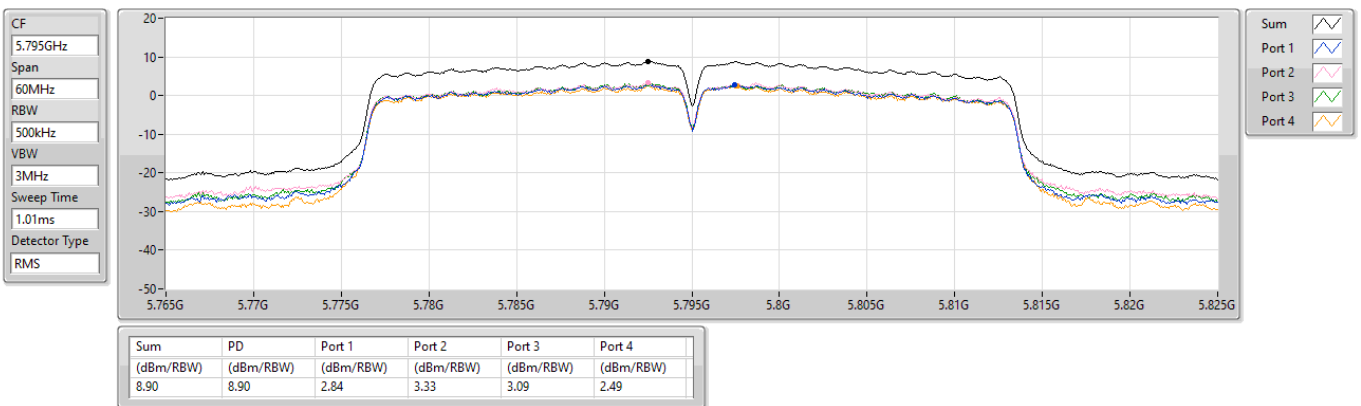
5755MHz



5.725-5.85GHz_802.11ac_VHT40_Nss4_(MCS0)_4TX

PSD

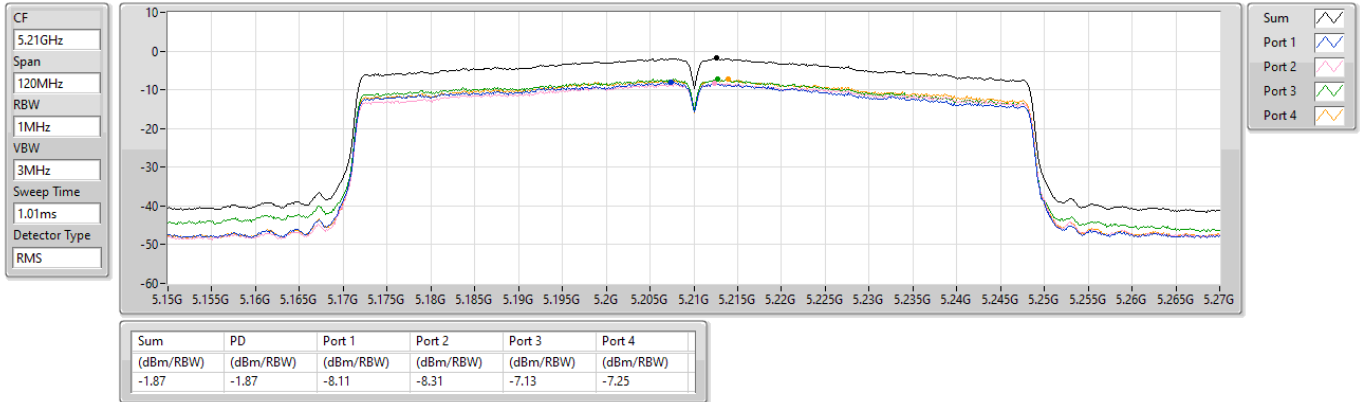
5795MHz



5.15-5.25GHz_802.11ac_VHT80_Nss4,(MCS0)_4TX

PSD

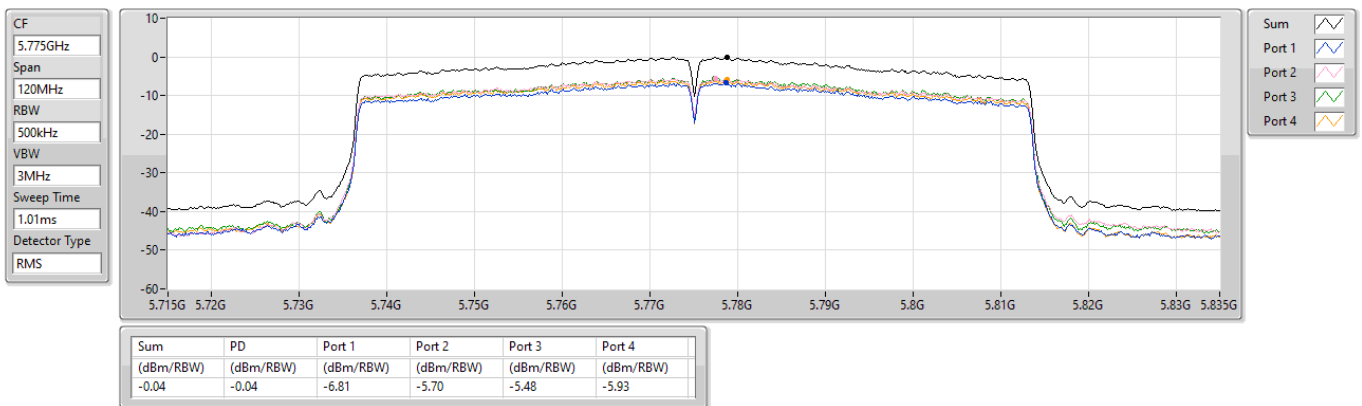
5210MHz



5.725-5.85GHz_802.11ac_VHT80_Nss4,(MCS0)_4TX

PSD

5775MHz





Unwanted Emissions (Below 1GHz)

Modulation	ac VHT20		Test Freq. (MHz)		5240	
Polarization	Horizontal					
Test By :Paul Lin Temperature(°C):24 Humidity(%):65						
Level (dBUV/m)						



Modulation	ac VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Paul Lin Temperature(°C):24 Humidity(%):65			
Level (dBuV/m)			

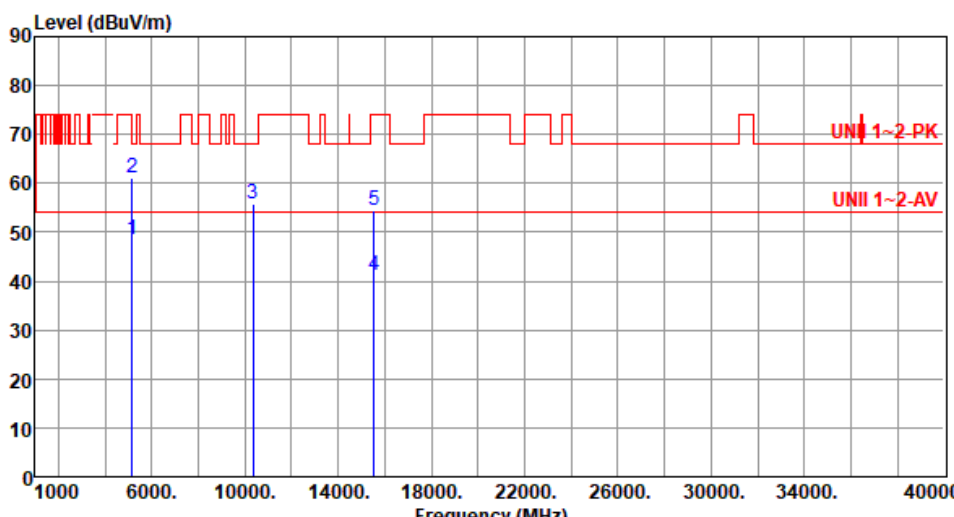


Modulation	ac VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Paul Lin Temperature(°C):24 Humidity(%):65			
Level (dBUV/m)			

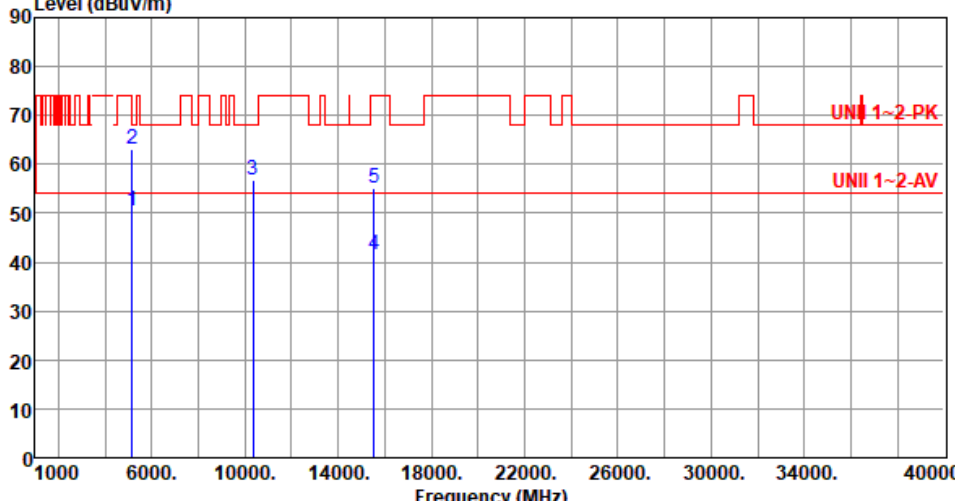


Modulation	ac VHT20		Test Freq. (MHz)		5745				
Polarization	Vertical								
Test By :Paul Lin			Temperature(°C):24			Humidity(%):65			
Level (dBuV/m)									

Unwanted Emissions (Above 1GHz) for ac VHT20

Modulation	ac VHT20	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Paul Lin Temperature(°C):24 Humidity(%):63									
Level (dBUV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	48.53	54.00	-5.47	47.68	0.85	Average	100	344
2	5150.00	61.23	74.00	-12.77	60.38	0.85	Peak	100	344
3	10360.00	55.68	68.20	-12.52	47.30	8.38	Peak	344	5
4	15540.00	41.18	54.00	-12.82	35.40	5.78	Average	100	52
5	15540.00	54.39	74.00	-19.61	48.61	5.78	Peak	100	52
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 :Paul Lin Temperature(°C):24 Humidity(%):63																																																																					
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>50.44</td><td>54.00</td><td>-3.56</td><td>49.59</td><td>0.85</td><td>Average</td><td>199</td><td>43</td></tr><tr><td>2</td><td>5150.00</td><td>63.02</td><td>74.00</td><td>-10.98</td><td>62.17</td><td>0.85</td><td>Peak</td><td>199</td><td>43</td></tr><tr><td>3</td><td>10360.00</td><td>56.75</td><td>68.20</td><td>-11.45</td><td>48.37</td><td>8.38</td><td>Peak</td><td>225</td><td>7</td></tr><tr><td>4</td><td>15540.00</td><td>41.36</td><td>54.00</td><td>-12.64</td><td>35.58</td><td>5.78</td><td>Average</td><td>100</td><td>156</td></tr><tr><td>5</td><td>15540.00</td><td>55.29</td><td>74.00</td><td>-18.71</td><td>49.51</td><td>5.78</td><td>Peak</td><td>100</td><td>156</td></tr></tbody></table>											Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	50.44	54.00	-3.56	49.59	0.85	Average	199	43	2	5150.00	63.02	74.00	-10.98	62.17	0.85	Peak	199	43	3	10360.00	56.75	68.20	-11.45	48.37	8.38	Peak	225	7	4	15540.00	41.36	54.00	-12.64	35.58	5.78	Average	100	156	5	15540.00	55.29	74.00	-18.71	49.51	5.78	Peak	100	156
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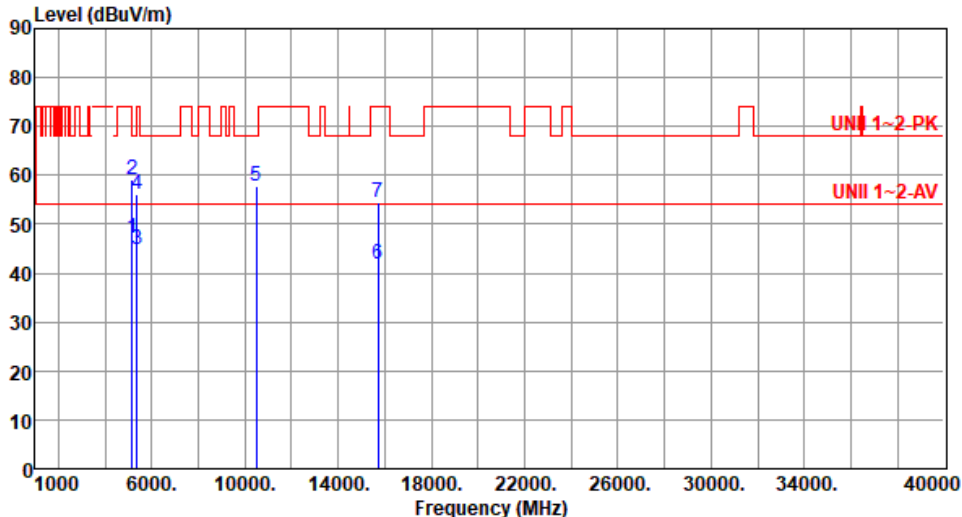


Modulation	ac VHT20		Test Freq. (MHz)		5200																																																																																	
Polarization	Horizontal																																																																																					
Test By :Paul Lin Temperature(°C):25 Humidity(%):65																																																																																						
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>49.19</td><td>54.00</td><td>-4.81</td><td>48.34</td><td>0.85</td><td>Average</td><td>100</td><td>335</td></tr><tr><td>2</td><td>5150.00</td><td>60.90</td><td>74.00</td><td>-13.10</td><td>60.05</td><td>0.85</td><td>Peak</td><td>100</td><td>335</td></tr><tr><td>3</td><td>5350.00</td><td>43.61</td><td>54.00</td><td>-10.39</td><td>43.37</td><td>0.24</td><td>Average</td><td>100</td><td>335</td></tr><tr><td>4</td><td>5350.00</td><td>55.42</td><td>74.00</td><td>-18.58</td><td>55.18</td><td>0.24</td><td>Peak</td><td>100</td><td>335</td></tr><tr><td>5</td><td>10400.00</td><td>58.01</td><td>68.20</td><td>-10.19</td><td>49.45</td><td>8.56</td><td>Peak</td><td>348</td><td>2</td></tr><tr><td>6</td><td>15600.00</td><td>41.29</td><td>54.00</td><td>-12.71</td><td>35.72</td><td>5.57</td><td>Average</td><td>100</td><td>37</td></tr><tr><td>7</td><td>15600.00</td><td>54.30</td><td>74.00</td><td>-19.70</td><td>48.73</td><td>5.57</td><td>Peak</td><td>100</td><td>37</td></tr></tbody></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	49.19	54.00	-4.81	48.34	0.85	Average	100	335	2	5150.00	60.90	74.00	-13.10	60.05	0.85	Peak	100	335	3	5350.00	43.61	54.00	-10.39	43.37	0.24	Average	100	335	4	5350.00	55.42	74.00	-18.58	55.18	0.24	Peak	100	335	5	10400.00	58.01	68.20	-10.19	49.45	8.56	Peak	348	2	6	15600.00	41.29	54.00	-12.71	35.72	5.57	Average	100	37	7	15600.00	54.30	74.00	-19.70	48.73	5.57	Peak	100	37
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Modulation	ac VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :Paul Lin Temperature(°C):25 Humidity(%):65			
Level (dBUV/m)			

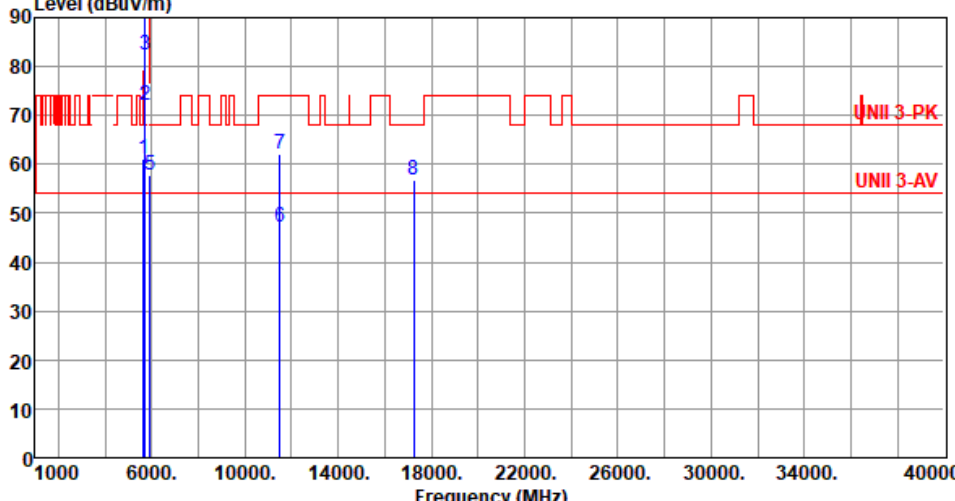


Modulation	ac VHT20	Test Freq. (MHz)	5240																																																																																
Polarization	Horizontal																																																																																		
Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																			
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Modulation	ac VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Paul Lin Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

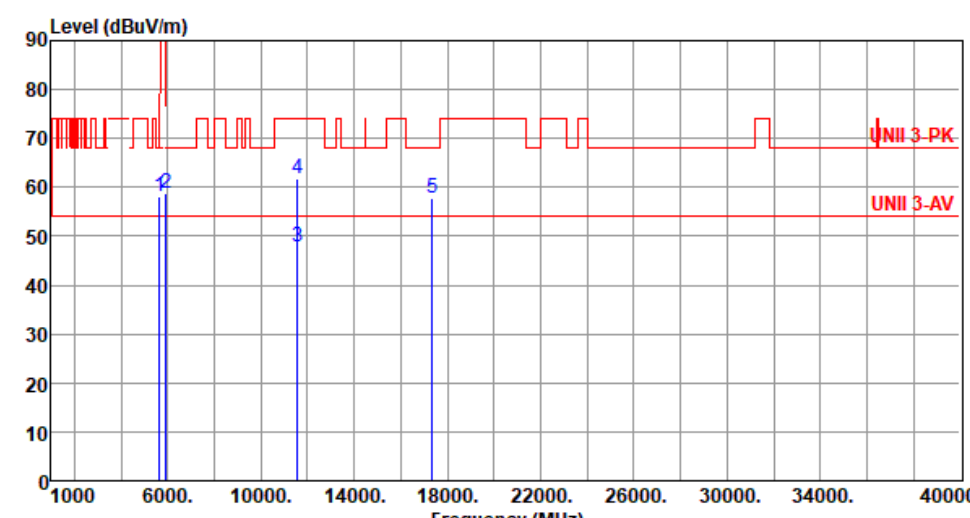


Modulation	ac VHT20	Test Freq. (MHz)	5745																																																																																										
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Modulation	ac VHT20	Test Freq. (MHz)	5745																																																																																										
Polarization	Vertical																																																																																												
Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																													
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>59.54</td><td>68.20</td><td>-8.66</td><td>58.88</td><td>0.66</td><td>Peak</td><td>220</td><td>34</td></tr><tr><td>2</td><td>5700.00</td><td>77.07</td><td>105.20</td><td>-28.13</td><td>76.07</td><td>1.00</td><td>Peak</td><td>220</td><td>34</td></tr><tr><td>3</td><td>5720.00</td><td>85.99</td><td>110.80</td><td>-24.81</td><td>84.95</td><td>1.04</td><td>Peak</td><td>220</td><td>34</td></tr><tr><td>4</td><td>5725.00</td><td>91.80</td><td>122.20</td><td>-30.40</td><td>90.75</td><td>1.05</td><td>Peak</td><td>220</td><td>34</td></tr><tr><td>5</td><td>5925.00</td><td>58.44</td><td>68.20</td><td>-9.76</td><td>56.80</td><td>1.64</td><td>Peak</td><td>220</td><td>34</td></tr><tr><td>6</td><td>11490.00</td><td>46.17</td><td>54.00</td><td>-7.83</td><td>37.54</td><td>8.63</td><td>Average</td><td>108</td><td>7</td></tr><tr><td>7</td><td>11490.00</td><td>59.29</td><td>74.00</td><td>-14.71</td><td>50.66</td><td>8.63</td><td>Peak</td><td>108</td><td>7</td></tr><tr><td>8</td><td>17235.00</td><td>57.08</td><td>68.20</td><td>-11.12</td><td>50.70</td><td>6.38</td><td>Peak</td><td>100</td><td>58</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	59.54	68.20	-8.66	58.88	0.66	Peak	220	34	2	5700.00	77.07	105.20	-28.13	76.07	1.00	Peak	220	34	3	5720.00	85.99	110.80	-24.81	84.95	1.04	Peak	220	34	4	5725.00	91.80	122.20	-30.40	90.75	1.05	Peak	220	34	5	5925.00	58.44	68.20	-9.76	56.80	1.64	Peak	220	34	6	11490.00	46.17	54.00	-7.83	37.54	8.63	Average	108	7	7	11490.00	59.29	74.00	-14.71	50.66	8.63	Peak	108	7	8	17235.00	57.08	68.20	-11.12	50.70	6.38	Peak	100	58
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	5650.00	59.54	68.20	-8.66	58.88	0.66	Peak	220	34																																																																																				
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4	5725.00	91.80	122.20	-30.40	90.75	1.05	Peak	220	34																																																																																				
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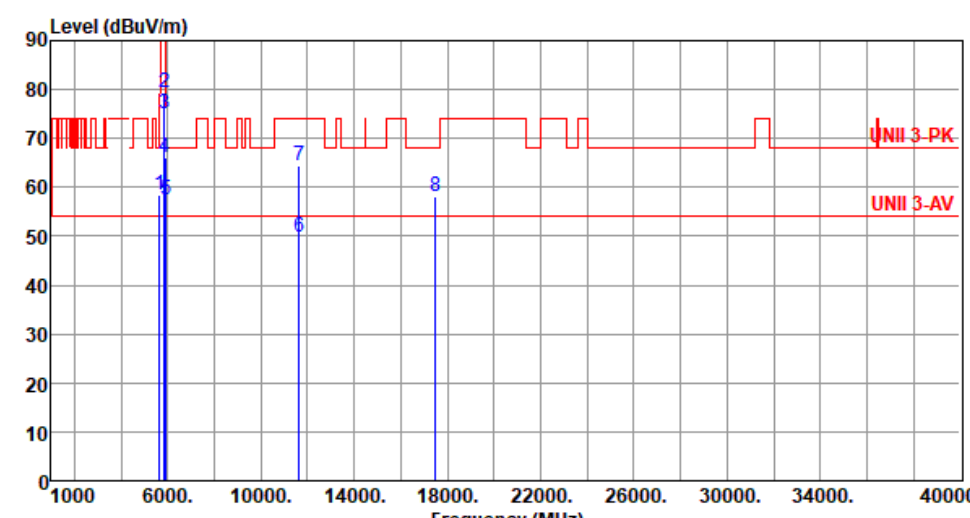
Modulation	ac VHT20	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Paul Lin Temperature(°C):25 Humidity(%):65																																																															
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>58.04</td><td>68.20</td><td>-10.16</td><td>57.38</td><td>0.66</td><td>Peak</td><td>103</td><td>317</td></tr><tr><td>2</td><td>5925.00</td><td>58.67</td><td>68.20</td><td>-9.53</td><td>57.03</td><td>1.64</td><td>Peak</td><td>103</td><td>317</td></tr><tr><td>3</td><td>11570.00</td><td>47.80</td><td>54.00</td><td>-6.20</td><td>39.25</td><td>8.55</td><td>Average</td><td>100</td><td>299</td></tr><tr><td>4</td><td>11570.00</td><td>61.64</td><td>74.00</td><td>-12.36</td><td>53.09</td><td>8.55</td><td>Peak</td><td>100</td><td>299</td></tr><tr><td>5</td><td>17355.00</td><td>57.76</td><td>68.20</td><td>-10.44</td><td>51.07</td><td>6.69</td><td>Peak</td><td>100</td><td>34</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.04	68.20	-10.16	57.38	0.66	Peak	103	317	2	5925.00	58.67	68.20	-9.53	57.03	1.64	Peak	103	317	3	11570.00	47.80	54.00	-6.20	39.25	8.55	Average	100	299	4	11570.00	61.64	74.00	-12.36	53.09	8.55	Peak	100	299	5	17355.00	57.76	68.20	-10.44	51.07	6.69	Peak	100	34
	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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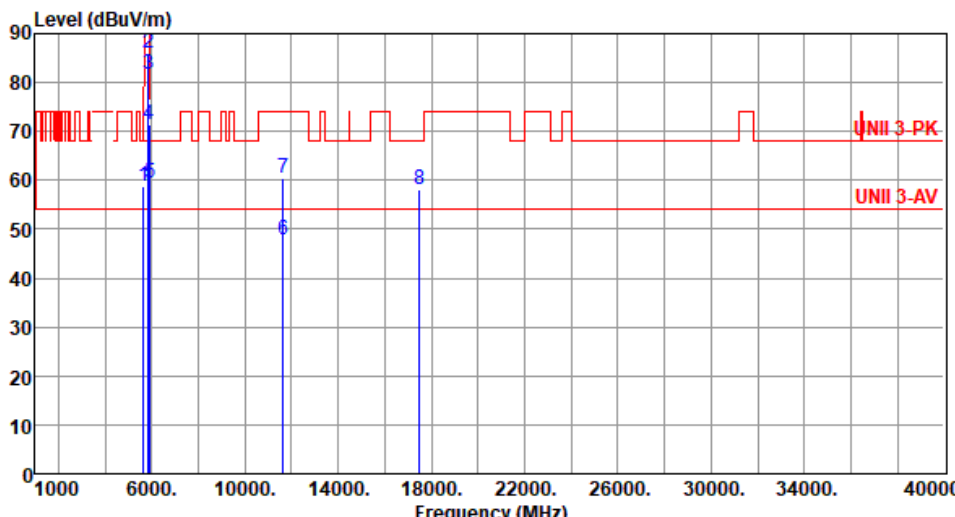
Modulation	ac VHT20	Test Freq. (MHz)	5785						
Polarization	Vertical								
Test By :Paul Lin Temperature(°C):25 Humidity(%):65									
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table
		dBuV/m			dBuV			cm	deg
1	5650.00	59.99	68.20	-8.21	59.33	0.66	Peak	215	38
2	5925.00	59.52	68.20	-8.68	57.88	1.64	Peak	215	38
3	11570.00	47.21	54.00	-6.79	38.66	8.55	Average	106	11
4	11570.00	59.81	74.00	-14.19	51.26	8.55	Peak	106	11
5	17355.00	57.65	68.20	-10.55	50.96	6.69	Peak	100	54

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 :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	ac VHT20	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																													
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>58.67</td><td>68.20</td><td>-9.53</td><td>58.01</td><td>0.66</td><td>Peak</td><td>224</td><td>38</td></tr><tr><td>2</td><td>5850.00</td><td>86.18</td><td>122.20</td><td>-36.02</td><td>84.80</td><td>1.38</td><td>Peak</td><td>224</td><td>38</td></tr><tr><td>3</td><td>5855.00</td><td>81.53</td><td>110.80</td><td>-29.27</td><td>80.12</td><td>1.41</td><td>Peak</td><td>224</td><td>38</td></tr><tr><td>4</td><td>5875.00</td><td>71.27</td><td>105.20</td><td>-33.93</td><td>69.77</td><td>1.50</td><td>Peak</td><td>224</td><td>38</td></tr><tr><td>5</td><td>5925.00</td><td>59.36</td><td>68.20</td><td>-8.84</td><td>57.72</td><td>1.64</td><td>Peak</td><td>224</td><td>38</td></tr><tr><td>6</td><td>11650.00</td><td>47.95</td><td>54.00</td><td>-6.05</td><td>39.73</td><td>8.22</td><td>Average</td><td>105</td><td>8</td></tr><tr><td>7</td><td>11650.00</td><td>60.39</td><td>74.00</td><td>-13.61</td><td>52.17</td><td>8.22</td><td>Peak</td><td>105</td><td>8</td></tr><tr><td>8</td><td>17475.00</td><td>58.26</td><td>68.20</td><td>-9.94</td><td>51.09</td><td>7.17</td><td>Peak</td><td>100</td><td>72</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.67	68.20	-9.53	58.01	0.66	Peak	224	38	2	5850.00	86.18	122.20	-36.02	84.80	1.38	Peak	224	38	3	5855.00	81.53	110.80	-29.27	80.12	1.41	Peak	224	38	4	5875.00	71.27	105.20	-33.93	69.77	1.50	Peak	224	38	5	5925.00	59.36	68.20	-8.84	57.72	1.64	Peak	224	38	6	11650.00	47.95	54.00	-6.05	39.73	8.22	Average	105	8	7	11650.00	60.39	74.00	-13.61	52.17	8.22	Peak	105	8	8	17475.00	58.26	68.20	-9.94	51.09	7.17	Peak	100	72
	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 VHT40

Modulation	ac VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Paul Lin Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			



Modulation	ac VHT40	Test Freq. (MHz)	5190																																																												
Polarization	Vertical																																																														
Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																															
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>51.89</td><td>54.00</td><td>-2.11</td><td>51.04</td><td>0.85</td><td>Average</td><td>201</td><td>47</td></tr><tr><td>2</td><td>5150.00</td><td>64.76</td><td>74.00</td><td>-9.24</td><td>63.91</td><td>0.85</td><td>Peak</td><td>201</td><td>47</td></tr><tr><td>3</td><td>10380.00</td><td>55.85</td><td>68.20</td><td>-12.35</td><td>47.37</td><td>8.48</td><td>Peak</td><td>100</td><td>39</td></tr><tr><td>4</td><td>15570.00</td><td>43.45</td><td>54.00</td><td>-10.55</td><td>37.78</td><td>5.67</td><td>Average</td><td>100</td><td>82</td></tr><tr><td>5</td><td>15570.00</td><td>56.67</td><td>74.00</td><td>-17.33</td><td>51.00</td><td>5.67</td><td>Peak</td><td>100</td><td>82</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	51.89	54.00	-2.11	51.04	0.85	Average	201	47	2	5150.00	64.76	74.00	-9.24	63.91	0.85	Peak	201	47	3	10380.00	55.85	68.20	-12.35	47.37	8.48	Peak	100	39	4	15570.00	43.45	54.00	-10.55	37.78	5.67	Average	100	82	5	15570.00	56.67	74.00	-17.33	51.00	5.67	Peak	100	82
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
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3	10380.00	55.85	68.20	-12.35	47.37	8.48	Peak	100	39																																																						
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5	15570.00	56.67	74.00	-17.33	51.00	5.67	Peak	100	82																																																						



Modulation	ac VHT40	Test Freq. (MHz)	5230																																																																																
Polarization	Horizontal																																																																																		
Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																			
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Modulation	ac VHT40	Test Freq. (MHz)	5230																																																																																																				
Polarization	Vertical																																																																																																						
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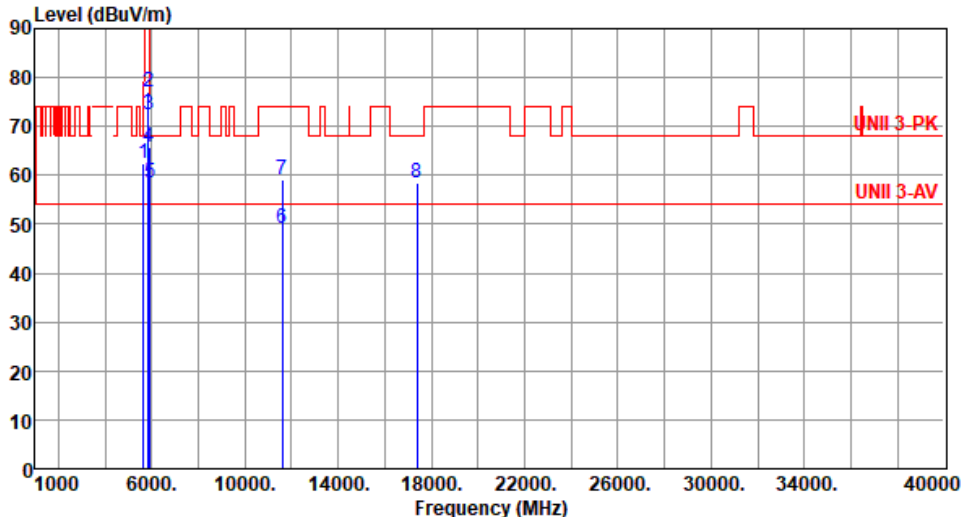


Modulation	ac VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		
Test By :Paul Lin Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

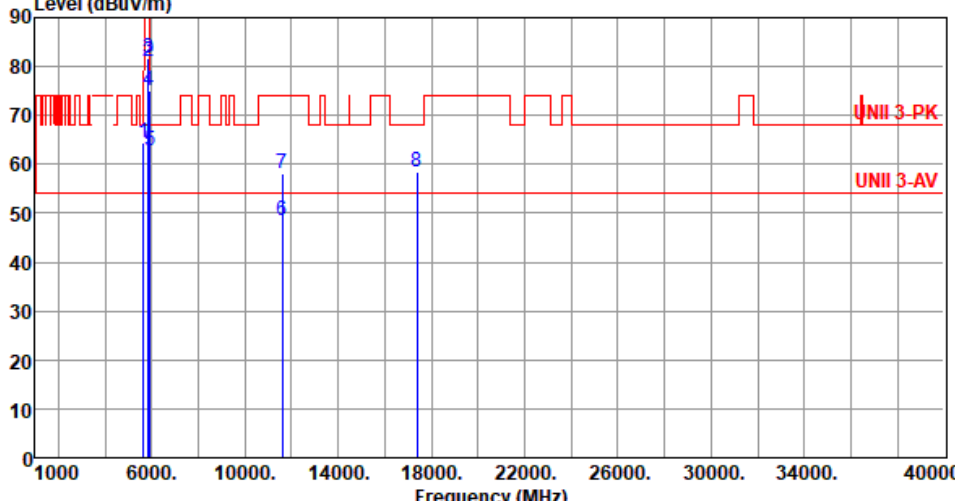


Modulation	ac VHT40	Test Freq. (MHz)	5755																																																																																										
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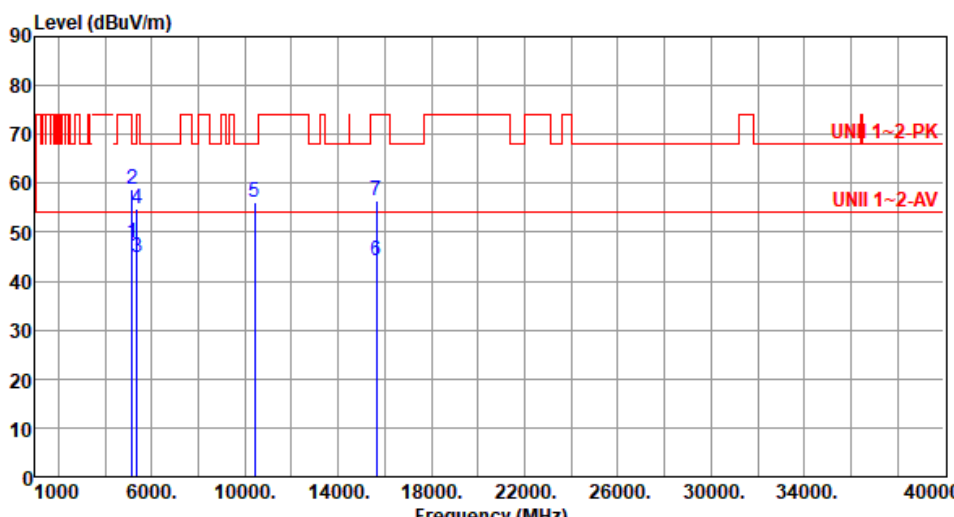


Modulation	ac VHT40	Test Freq. (MHz)	5795																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																																																	
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Modulation	ac VHT40	Test Freq. (MHz)	5795																																																																																										
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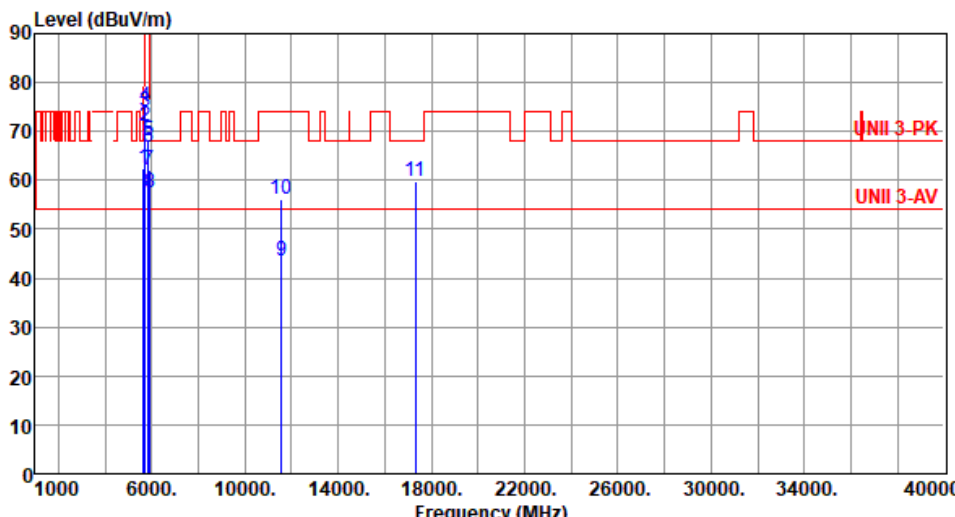
Unwanted Emissions (Above 1GHz) for ac VHT80

Modulation	ac VHT80	Test Freq. (MHz)	5210																																																																																
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Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																			
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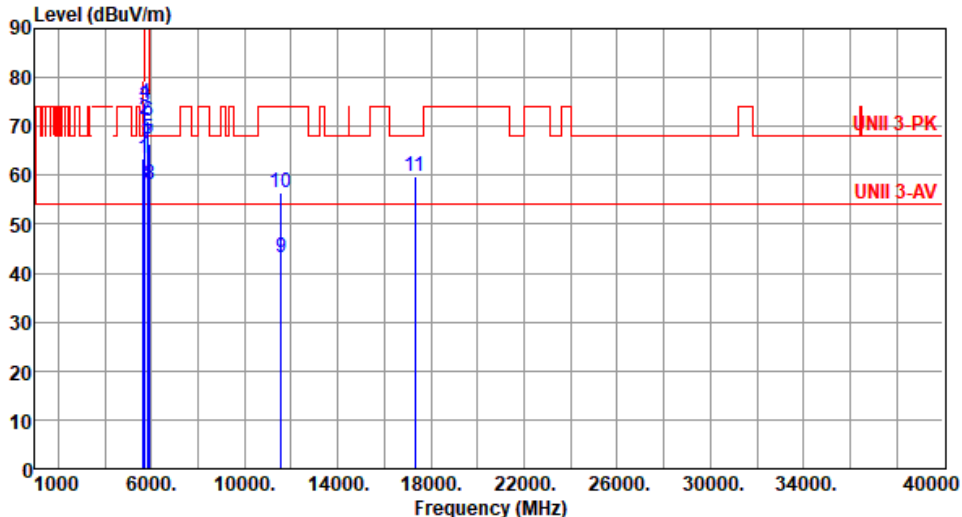


Modulation	ac VHT80	Test Freq. (MHz)	5210																																																																																
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Polarization	Vertical																																																																																																																																																				
Test By :Paul Lin Temperature(°C):24 Humidity(%):63																																																																																																																																																					
 <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>5650.00</td><td>63.36</td><td>68.20</td><td>-4.84</td><td>62.70</td><td>0.66</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>2</td><td>5700.00</td><td>71.56</td><td>105.20</td><td>-33.64</td><td>70.56</td><td>1.00</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>3</td><td>5720.00</td><td>73.93</td><td>110.80</td><td>-36.87</td><td>72.89</td><td>1.04</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>4</td><td>5725.00</td><td>74.58</td><td>122.20</td><td>-47.62</td><td>73.53</td><td>1.05</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>5</td><td>5850.00</td><td>67.26</td><td>122.20</td><td>-54.94</td><td>65.88</td><td>1.38</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>6</td><td>5855.00</td><td>71.00</td><td>110.80</td><td>-39.80</td><td>69.59</td><td>1.41</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>7</td><td>5875.00</td><td>66.58</td><td>105.20</td><td>-38.62</td><td>65.08</td><td>1.50</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>8</td><td>5925.00</td><td>58.19</td><td>68.20</td><td>-10.01</td><td>56.55</td><td>1.64</td><td>Peak</td><td>205</td><td>40</td></tr><tr><td>9</td><td>11550.00</td><td>43.18</td><td>54.00</td><td>-10.82</td><td>34.60</td><td>8.58</td><td>Average</td><td>100</td><td>126</td></tr><tr><td>10</td><td>11550.00</td><td>56.37</td><td>74.00</td><td>-17.63</td><td>47.79</td><td>8.58</td><td>Peak</td><td>100</td><td>126</td></tr><tr><td>11</td><td>17325.00</td><td>59.88</td><td>68.20</td><td>-8.32</td><td>53.33</td><td>6.55</td><td>Peak</td><td>100</td><td>68</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	5650.00	63.36	68.20	-4.84	62.70	0.66	Peak	205	40	2	5700.00	71.56	105.20	-33.64	70.56	1.00	Peak	205	40	3	5720.00	73.93	110.80	-36.87	72.89	1.04	Peak	205	40	4	5725.00	74.58	122.20	-47.62	73.53	1.05	Peak	205	40	5	5850.00	67.26	122.20	-54.94	65.88	1.38	Peak	205	40	6	5855.00	71.00	110.80	-39.80	69.59	1.41	Peak	205	40	7	5875.00	66.58	105.20	-38.62	65.08	1.50	Peak	205	40	8	5925.00	58.19	68.20	-10.01	56.55	1.64	Peak	205	40	9	11550.00	43.18	54.00	-10.82	34.60	8.58	Average	100	126	10	11550.00	56.37	74.00	-17.63	47.79	8.58	Peak	100	126	11	17325.00	59.88	68.20	-8.32	53.33	6.55	Peak	100	68
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																												
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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).																																																																																																																																																					



Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C V _{max}	3.84	3.54	4.27	3.44
T20°C V _{min}	3.17	3.34	4.05	3.47
T40°C V _{nom}	4.38	5.03	4.78	4.27
T30°C V _{nom}	3.72	4.13	3.54	3.41
T20°C V _{nom}	3.24	3.17	3.46	3.37
T10°C V _{nom}	3.49	3.76	4.02	3.31
T0°C V _{nom}	4.45	4.56	4.58	4.26
V _{nom} [V]: 120	V _{max} [V]: 138		V _{min} [V]: 102	
T _{nom} [°C]: 20	T _{max} [°C]: 40		T _{min} [°C]: 0	

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C V _{max}	3.61	3.32	3.60	3.48
T20°C V _{min}	3.06	3.09	3.16	3.21
T40°C V _{nom}	3.77	4.10	4.41	4.16
T30°C V _{nom}	2.93	2.42	3.36	3.00
T20°C V _{nom}	2.90	3.22	2.89	2.74
T10°C V _{nom}	3.29	3.22	3.41	3.71
T0°C V _{nom}	3.83	4.50	3.79	4.21
V _{nom} [V]: 120	V _{max} [V]: 138		V _{min} [V]: 102	
T _{nom} [°C]: 20	T _{max} [°C]: 40		T _{min} [°C]: 0	

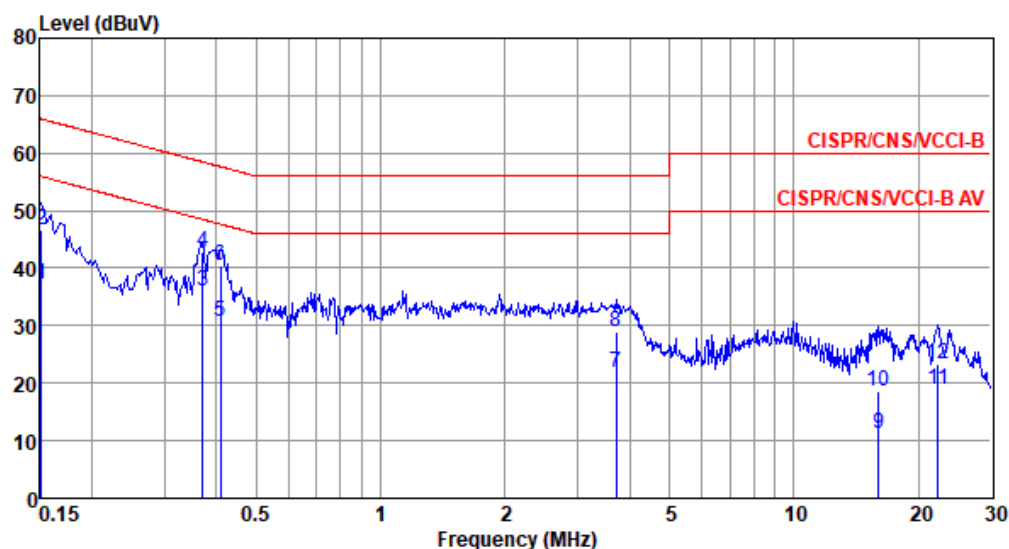


Modulation Mode	ac VHT20	Test Freq. (MHz)	5240
Power Phase	Line		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level		loss		Remark
			dBuV	dB	dBuV	dB	dB	dB	
1	0.151	37.10	55.96	-18.86	27.19	9.63	0.08	0.20	Average
2	0.151	46.79	65.96	-19.17	36.88	9.63	0.08	0.20	QP
3*	0.371	35.89	48.47	-12.58	25.87	9.62	0.08	0.32	Average
4	0.371	42.92	58.47	-15.55	32.90	9.62	0.08	0.32	QP
5	0.410	30.78	47.64	-16.86	20.75	9.62	0.08	0.33	Average
6	0.410	40.57	57.64	-17.07	30.54	9.62	0.08	0.33	QP
7	3.720	21.95	46.00	-24.05	11.72	9.65	0.17	0.41	Average
8	3.720	28.84	56.00	-27.16	18.61	9.65	0.17	0.41	QP
9	16.055	11.09	50.00	-38.91	0.43	9.68	0.46	0.52	Average
10	16.055	18.69	60.00	-41.31	8.03	9.68	0.46	0.52	QP
11	22.298	18.99	50.00	-31.01	8.17	9.66	0.52	0.64	Average
12	22.298	23.41	60.00	-36.59	12.59	9.66	0.52	0.64	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).

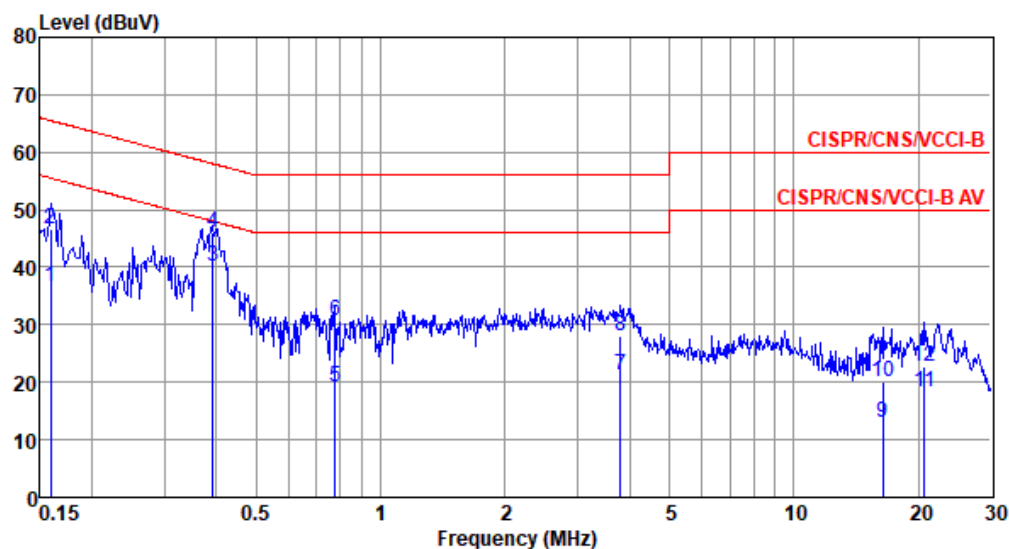


Modulation Mode	ac VHT20	Test Freq. (MHz)	5240
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	36.53	55.52	-18.99	26.69	9.63	0.08	0.13	Average
2	0.159	46.71	65.52	-18.81	36.87	9.63	0.08	0.13	QP
3*	0.393	40.14	47.99	-7.85	30.19	9.62	0.08	0.25	Average
4	0.393	46.14	57.99	-11.85	36.19	9.62	0.08	0.25	QP
5	0.775	19.25	46.00	-26.75	9.24	9.63	0.09	0.29	Average
6	0.775	30.67	56.00	-25.33	20.66	9.63	0.09	0.29	QP
7	3.799	21.29	46.00	-24.71	11.07	9.65	0.17	0.40	Average
8	3.799	27.98	56.00	-28.02	17.76	9.65	0.17	0.40	QP
9	16.398	12.93	50.00	-37.07	2.18	9.77	0.46	0.52	Average
10	16.398	20.00	60.00	-40.00	9.25	9.77	0.46	0.52	QP
11	20.704	18.27	50.00	-31.73	7.37	9.80	0.51	0.59	Average
12	20.704	22.65	60.00	-37.35	11.75	9.80	0.51	0.59	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).

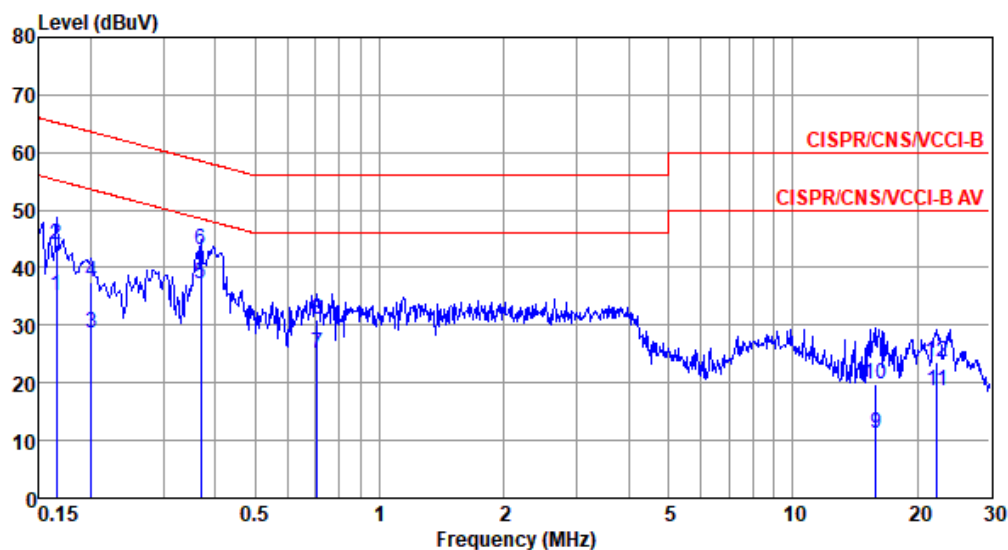


Modulation Mode	ac VHT20	Test Freq. (MHz)	5745
Power Phase	Line		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level		loss		Remark
			dBuV	dB	dBuV	dB	dB	dB	
1	0.165	35.04	55.21	-20.17	25.12	9.63	0.07	0.22	Average
2	0.165	44.03	65.21	-21.18	34.11	9.63	0.07	0.22	QP
3	0.201	28.63	53.58	-24.95	18.70	9.62	0.06	0.25	Average
4	0.201	37.49	63.58	-26.09	27.56	9.62	0.06	0.25	QP
5*	0.369	37.14	48.52	-11.38	27.12	9.62	0.08	0.32	Average
6	0.369	43.04	58.52	-15.48	33.02	9.62	0.08	0.32	QP
7	0.705	25.11	46.00	-20.89	15.04	9.63	0.09	0.35	Average
8	0.705	31.09	56.00	-24.91	21.02	9.63	0.09	0.35	QP
9	15.885	11.33	50.00	-38.67	0.69	9.68	0.45	0.51	Average
10	15.885	19.82	60.00	-40.18	9.18	9.68	0.45	0.51	QP
11	22.298	18.70	50.00	-31.30	7.88	9.66	0.52	0.64	Average
12	22.298	23.51	60.00	-36.49	12.69	9.66	0.52	0.64	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).

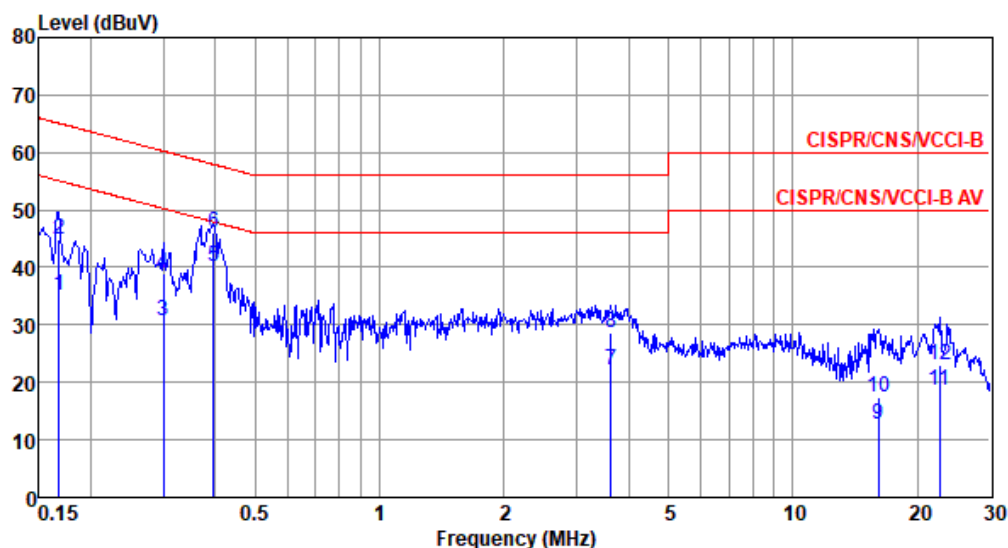


Modulation Mode	ac VHT20	Test Freq. (MHz)	5745
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.168	35.23	55.08	-19.85	25.39	9.63	0.07	0.14	Average
2	0.168	44.99	65.08	-20.09	35.15	9.63	0.07	0.14	QP
3	0.300	30.56	50.24	-19.68	20.65	9.62	0.07	0.22	Average
4	0.300	38.83	60.24	-21.41	28.92	9.62	0.07	0.22	QP
5*	0.396	40.15	47.95	-7.80	30.20	9.62	0.08	0.25	Average
6	0.396	46.19	57.95	-11.76	36.24	9.62	0.08	0.25	QP
7	3.623	22.00	46.00	-24.00	11.79	9.65	0.17	0.39	Average
8	3.623	28.58	56.00	-27.42	18.37	9.65	0.17	0.39	QP
9	16.140	12.83	50.00	-37.17	2.08	9.77	0.46	0.52	Average
10	16.140	17.49	60.00	-42.51	6.74	9.77	0.46	0.52	QP
11	22.655	18.56	50.00	-31.44	7.63	9.79	0.53	0.61	Average
12	22.655	22.93	60.00	-37.07	12.00	9.79	0.53	0.61	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).