Shenzhen Global Test Service Co.,Ltd.
No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC TEST REPORT

FCC PART 15 SUBPART E 15.407

Report Reference No.....:	**GTS20200528006-1-5-2**
FCC ID..... :	**2ATVI-P200**
Compiled by (position+printed name+signature)..:	File administrators Jimmy Wang
Supervised by (position+printed name+signature)..:	Test Engineer Aaron Tan
Approved by (position+printed name+signature)..:	Manager Jason Hu
Date of issue.....:	June 18, 2020
Representative Laboratory Name .:	**Shenzhen Global Test Service Co.,Ltd.**
Address.....:	No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China
Applicant's name.....:	**Shenzhen Suichen Technology Co., Ltd.**
Address .....:	Room 12A01,12/F,Yunsong Building,Tairan 8th road,Tian'an community,Shatou street, Futian district, ShenZhen, China
Test specification .....:	
Standard .....:	**FCC Part 15 Subpart E 15.407**
TRF Originator.....:	Shenzhen Global Test Service Co.,Ltd.
Master TRF.....:	Dated 2014-12

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Test item description .....:	Wireless Mini Projector
Trade Mark .....:	N/A
Manufacturer .....:	Shenzhen Suichen Technology Co., Ltd.
Model/Type reference.....:	P200
Listed Models .....:	P200PLUS, P302, P302PLUS, P201, P201PLUS
Modulation Type .....:	OFDM
Operation Frequency.....:	From 5180MHz-5240MHz, 5745MHz-5825MHz
Rating .....:	12V⎓3A
Result.....:	**PASS**

TEST REPORT

Test Report No. :	GTS20200528006-1-5-2	June 18, 2020 Date of issue

Equipment under Test	:	Wireless Mini Projector
Model /Type	:	P200
Listed Models	:	P200PLUS, P302, P302PLUS, P201, P201PLUS
Applicant	:	**Shenzhen Suichen Technology Co., Ltd.**
Address	:	Room 12A01,12/F,Yunsong Building,Tairan 8th road,Tian'an community,Shatou street, Futian district, ShenZhen, China
Manufacturer	:	**Shenzhen Suichen Technology Co., Ltd.**
Address	:	Room 12A01,12/F,Yunsong Building,Tairan 8th road,Tian'an community,Shatou street, Futian district, ShenZhen, China

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15 Subpart E—Unlicensed National Information Infrastructure Devices
ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices
KDB789033 D02: General UNII Test Procedures New Rules v01r02
KDB662911 D01 v02r01:Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	May 20, 2020
Testing commenced on	:	May 21, 2020
Testing concluded on	:	Jun. 17, 2020

2.2 Product Description

Product Name:	Wireless Mini Projector			
Model/Type reference:	P200			
Power supply:	DC 7.6V from battery			
Hardware version:	P200_MAIN_V4			
Software version:	V1.0			
Sample ID:	GTS20200528006-1-5-1#/ GTS20200528006-1-5-2#			
Adapter information:	Model: SA36H-120300U Input: 100-240V~, 50/60Hz, 1A Output: 12V⎓3A			
WIFI				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac	802.11n 802.11ac	802.11ac	N/A
Operation frequency:	5180 - 5240MHz 5745 - 5825MHz	5190 - 5230MHz 5755MHz-5795MHz	5210MHz; 5775MHz	N/A
Modulation:	OFDM	OFDM	OFDM	N/A
Channel number:	9	4	2	N/A
Channel separation:	20MHz	40MHz	80MHz	N/A
Antenna type:	FPC antenna 2*2			
Antenna gain:	2.0dBi			

2.3 Test Sample

The application provides 2 samples to meet requirement.

Sample Number	Description
GTS20200528006-1-5-1#	Engineer sample – continuous transmit
GTS20200528006-1-5-2#	Normal sample – Intermittent transmit

2.4 Equipment Under Test

Power supply system utilised

Power supply voltage	:	○	230V / 50 Hz	○	120V / 60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC3.80V from battery

2.5 Short description of the Equipment under Test (EUT)

This is a Wireless Mini Projector.

For more details, refer to the user's manual of the EUT.

2.6 EUT operation mode

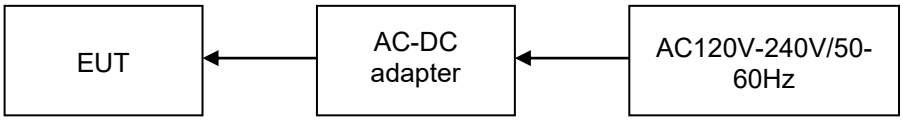
The Applicant provides communication test software(RFTestTool.apk) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.
All test performed at the low, middle and high of operational frequency range of each mode.

Operation Frequency List WIFI on 5G Band：

Operating band	20MHz		40MHz		80MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII 1 (5150MHz-5250MHz)	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII 3 (5725MHz-5850MHz)	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825				

Note: The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

2.7 Block Diagram of Test Setup



2.8 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

2.9 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

2.10 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.
No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 165725

Shenzhen Global Test Service Co.,Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 4758.01

Shenzhen Global Test Service Co.,Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

CNAS-Lab Code: L8169

Shenzhen Global Test Service Co.,Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories. Date of Registration: Dec. 11, 2015. Valid time is until Dec. 10, 2024.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4 Test Description

FCC Requirement		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.407(a)	Emission Bandwidth(26dBm Bandwidth)	PASS Note1
FCC Part 15.407(e)	Minimum Emission Bandwidth(6dBm Bandwidth)	PASS Note2
FCC Part 15.407(a)	Maximum Conducted Output Power	PASS
FCC Part 15.407(a)	Peak Power Spectral Density	PASS
FCC Part 15.407(g)	Frequency Stability	PASS
FCC Part 15.407(b)	Undesirable emission	PASS
FCC Part 15.407(b)/15.205/15.209	Radiated Emissions	PASS
FCC Part 15.407(h)	Dynamic Frequency Selection	N/A Note 3
FCC Part 15.203/15.247(b)	Antenna Requirement	PASS

Note 1: Apply to U-NII 1, U-NII 2A, and U-NII 2C band.
Note 2: Apply to U-NII 3 band only.
Note 3: This device not work in DFS band.

Data Rate Used:
Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Conducted Output Power Power Spectral Density Emission Bandwidth(26dBm Bandwidth) Minimum Emission Bandwidth(6dBm Bandwidth) Undesirable emission Frequency Stability	11a/OFDM	6 Mbps
	11n(20MHz),11ac(20MHz)/OFDM	7.2 Mbps
	11n(40MHz),11ac(40MHz)/OFDM	15.0Mbps
	11ac(80MHz)/OFDM	65.0Mbps

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

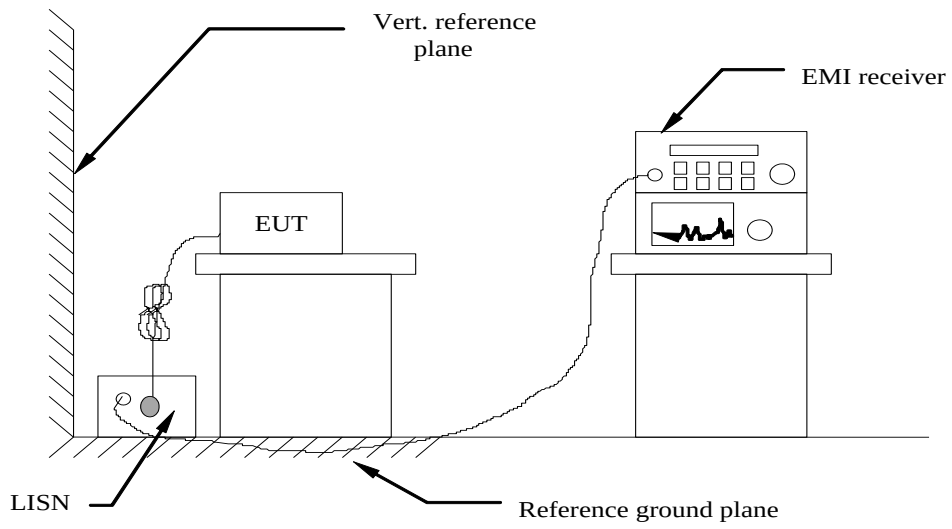
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	3560.6550.08	2019/09/20	2020/09/19
LISN	R&S	ESH2-Z5	893606/008	2019/09/20	2020/09/19
EMI Test Receiver	R&S	ESPI3	101841-cd	2019/09/20	2020/09/19
EMI Test Receiver	R&S	ESCI7	101102	2019/09/20	2020/09/19
Spectrum Analyzer	Agilent	N9020A	MY48010425	2019/09/20	2020/09/19
Spectrum Analyzer	R&S	FSV40	100019	2019/09/20	2020/09/19
Vector Signal generator	Agilent	N5181A	MY49060502	2019/09/20	2020/09/19
Signal generator	Agilent	E4421B	3610AO1069	2019/09/20	2020/09/19
Climate Chamber	ESPEC	EL-10KA	A20120523	2019/09/20	2020/09/19
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2019/09/23	2020/09/22
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2019/10/12	2020/10/11
Bilog Antenna	Schwarzbeck	VULB9163	000976	2020/05/25	2021/05/24
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2019/09/20	2020/09/19
Amplifier	Schwarzbeck	BBV 9743	#202	2019/09/20	2020/09/19
Amplifier	Schwarzbeck	BBV9179	9719-025	2019/09/20	2020/09/19
Amplifier	EMCI	EMC051845B	980355	2019/09/20	2020/09/19
Temperature/Humidity Meter	Gangxing	CTH-608	02	2019/09/20	2020/09/19
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	KL142031	2019/09/20	2020/09/19
High-Pass Filter	K&L	41H10-1375/U12750-O/O	KL142032	2019/09/20	2020/09/19
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2019/09/20	2020/09/19
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2019/09/20	2020/09/19
Data acquisition card	Agilent	U2531A	TW53323507	2019/09/20	2020/09/19
Power Sensor	Agilent	U2021XA	MY5365004	2019/09/20	2020/09/19
Test Control Unit	Tonscend	JS0806-1	178060067	2019/06/20	2020/06/19
Automated filter bank	Tonscend	JS0806-F	19F8060177	2019/06/20	2020/06/19
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: The Cal.Interval was one year.

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
2 Support equipment, if needed, was placed as per ANSI C63.10-2013
3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
4 The EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5 All support equipments received AC power from a second LISN, if any.
6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT.The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following：

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

TEST RESULTS

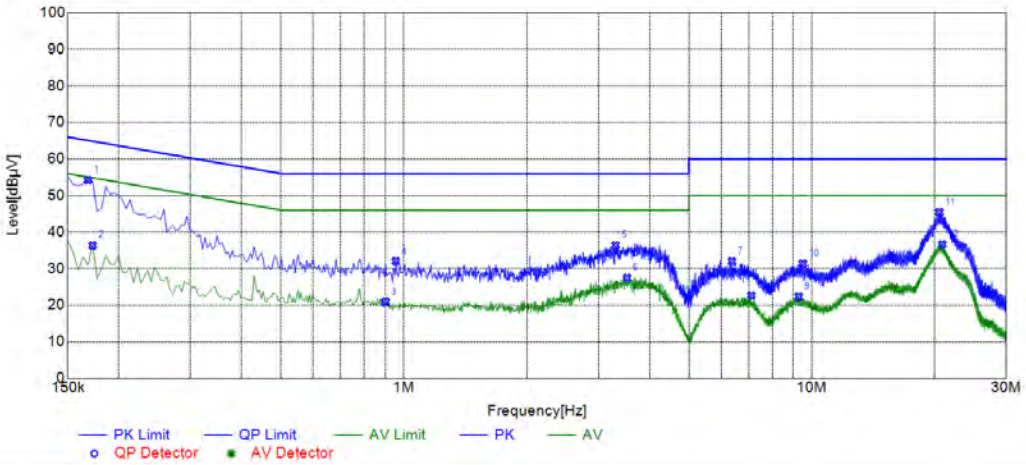
Temperature	22.8℃	Humidity	56%
Test Engineer	Moon Tan	Configurations	802.11a

Remark:

1. All modes of 802.11a/n/ac were tested at Low, Middle, and High channel; only the worst result of 802.11a CH36 was reported as below:
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Suspected List

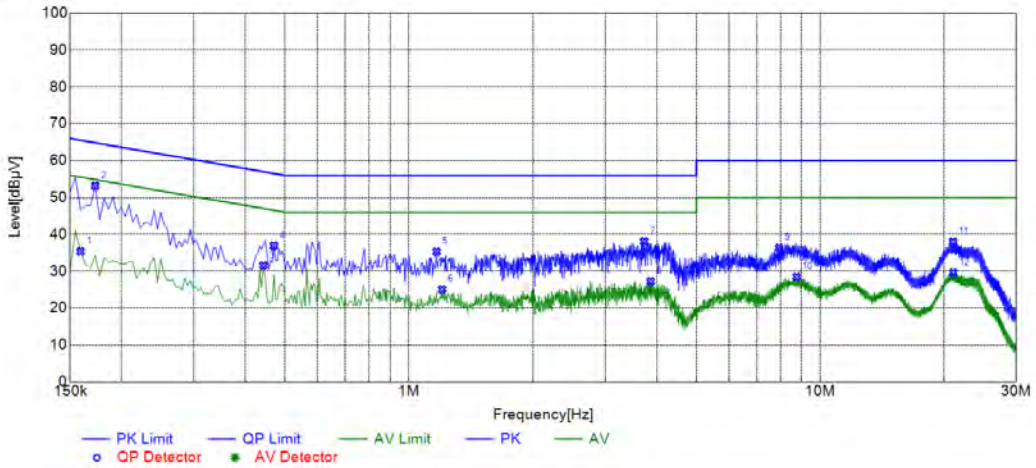
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Result [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Line	Remark
1	0.1680	44.16	10.05	54.21	65.06	10.85	PK	L1	PASS
2	0.1725	26.28	10.05	36.33	54.84	18.51	AV	L1	PASS
3	0.9015	10.86	10.06	20.92	46.00	25.08	AV	L1	PASS
4	0.9555	21.96	10.07	32.03	56.00	23.97	PK	L1	PASS
5	3.3045	26.06	10.33	36.39	56.00	19.61	PK	L1	PASS
6	3.5250	17.09	10.35	27.44	46.00	18.56	AV	L1	PASS
7	6.3735	21.40	10.57	31.97	60.00	28.03	PK	L1	PASS
8	7.1115	12.06	10.59	22.65	50.00	27.35	AV	L1	PASS
9	9.2895	11.72	10.67	22.39	50.00	27.61	AV	L1	PASS
10	9.5100	20.71	10.68	31.39	60.00	28.61	PK	L1	PASS
11	20.5530	33.94	11.53	45.47	60.00	14.53	PK	L1	PASS
12	20.8950	25.11	11.54	36.65	50.00	13.35	AV	L1	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Suspected List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Result [dBµV]	Limit [dBµV]	Margin [dB]	Detector	Line	Remark
1	0.1590	25.30	10.05	35.35	55.52	20.17	AV	N	PASS
2	0.1725	43.09	10.05	53.14	64.84	11.70	PK	N	PASS
3	0.4425	21.56	10.04	31.60	47.01	15.41	AV	N	PASS
4	0.4695	26.83	10.05	36.88	56.52	19.64	PK	N	PASS
5	1.1670	25.20	10.09	35.29	56.00	20.71	PK	N	PASS
6	1.2030	14.97	10.09	25.06	46.00	20.94	AV	N	PASS
7	3.7320	27.72	10.37	38.09	56.00	17.91	PK	N	PASS
8	3.8715	16.88	10.39	27.27	46.00	18.73	AV	N	PASS
9	7.9395	25.70	10.63	36.33	60.00	23.67	PK	N	PASS
10	8.7675	17.84	10.66	28.50	50.00	21.50	AV	N	PASS
11	21.0480	26.51	11.45	37.96	60.00	22.04	PK	N	PASS
12	21.0615	18.15	11.45	29.60	50.00	20.40	AV	N	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

4.2 Radiated Emissions

Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band: 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.

Undesirable emission limits

Requirement	Limit(EIRP)	Limit (Field strength at 3m) Note1
15.407(b)(1)	PK:-27(dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)		

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

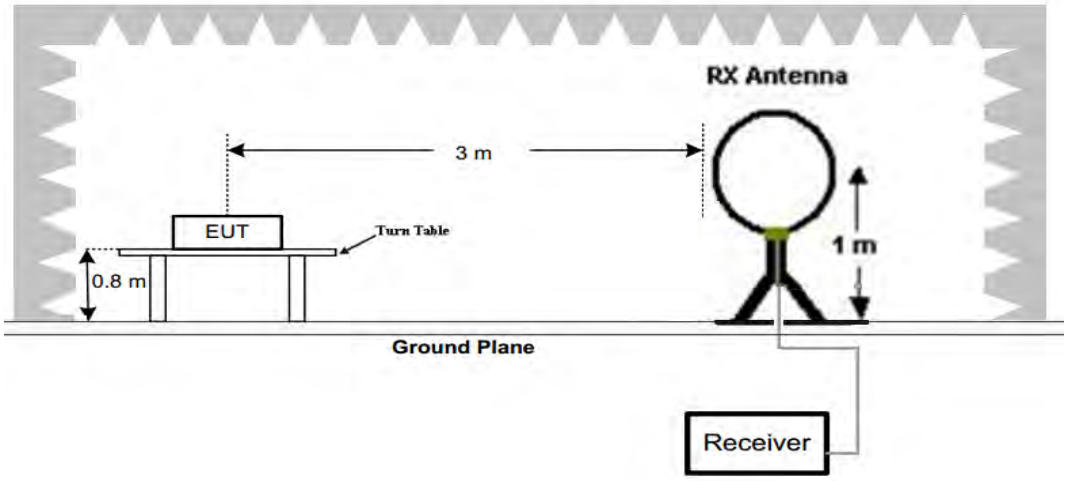
(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209
(6)In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

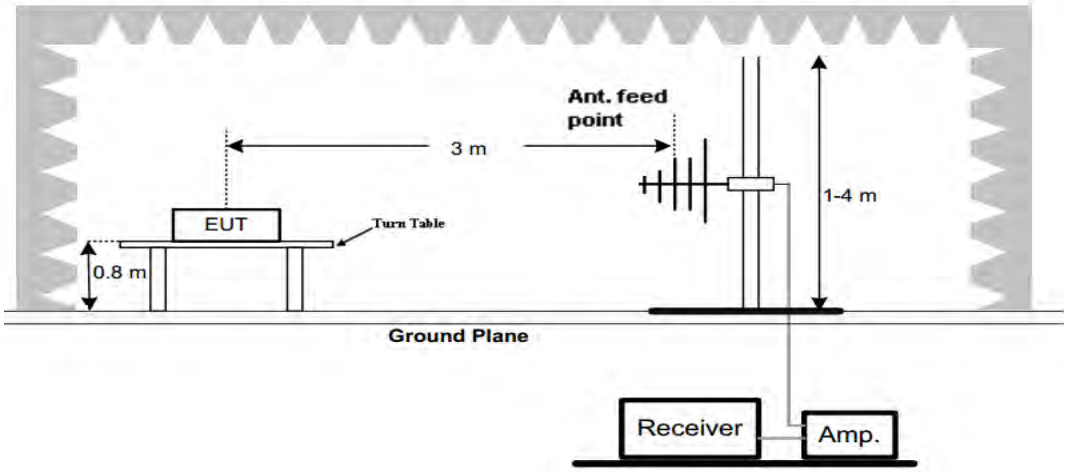
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

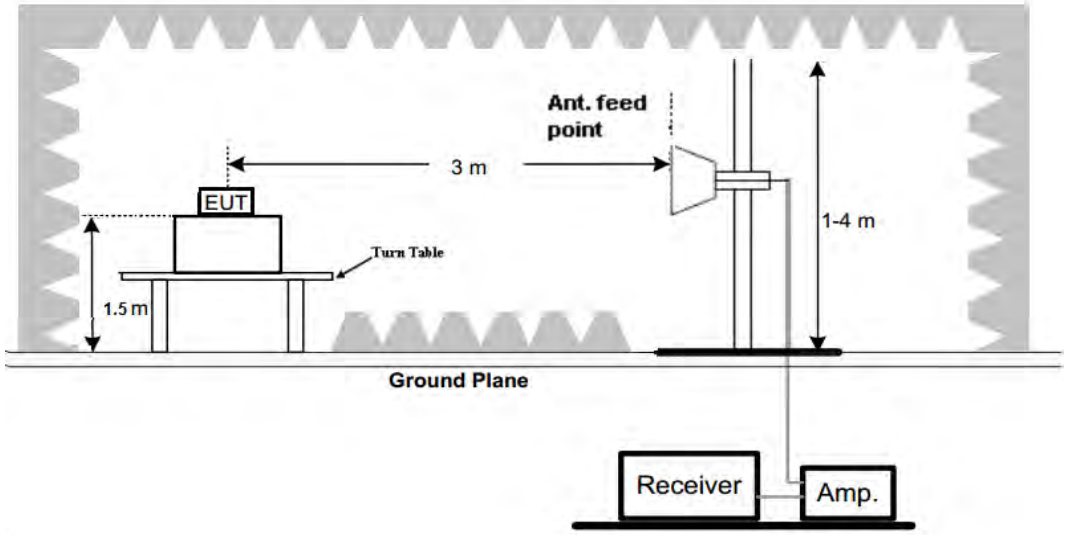
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 40GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

TEST RESULTS

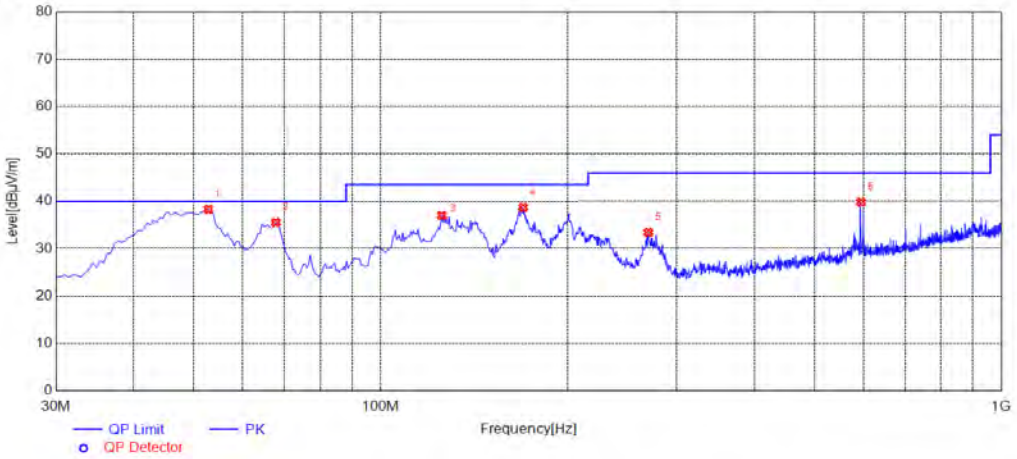
Temperature	22.8℃	Humidity	56%
Test Engineer	Moon Tan	Configurations	802.11a

Remark:
1. All 802.11a / 802.11n (HT20) / 802.11ac (HT20) / 802.11n (HT40) / 802.11ac (HT40) / 802.11ac (HT80) modes have been tested for below 1GHz test, only the worst case 802.11ac (HT20) low channel of U-NII 1 band was recorded.
2. All 802.11a / 802.11n (HT20) / 802.11ac (HT20) / 802.11n (HT40) / 802.11ac (HT40) / 802.11ac (HT80) modes have been tested for above 1GHz test, only the worst case 802.11ac (HT20) was recorded.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz

Horizontal

Test Graph



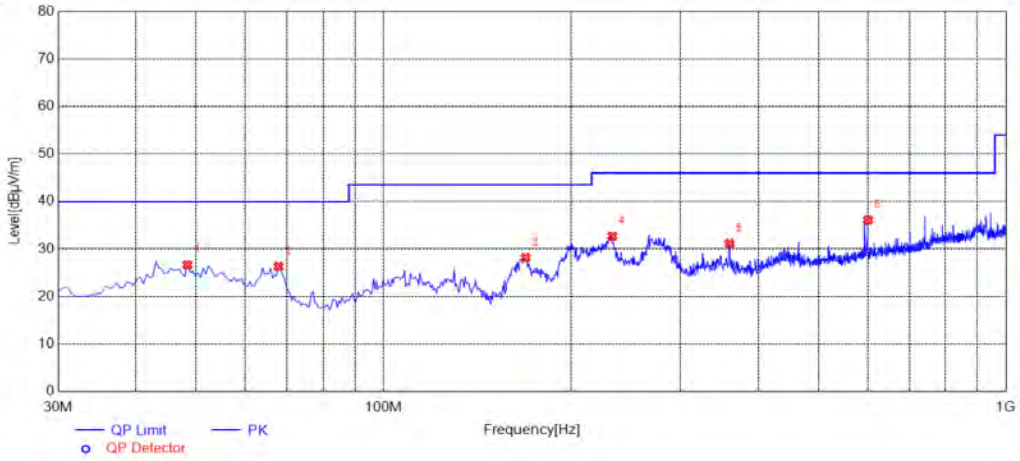
Suspected List											
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	52.7950	45.14	-6.83	38.31	40.00	1.69	100	140	PK	Horizonta	PASS
2	67.8300	44.88	-9.34	35.54	40.00	4.46	100	67	PK	Horizonta	PASS
3	125.5450	48.65	-11.67	36.98	43.50	6.52	100	301	PK	Horizonta	PASS
4	169.6800	50.02	-11.31	38.71	43.50	4.79	100	266	PK	Horizonta	PASS
5	270.0750	41.29	-7.86	33.43	47.00	12.57	100	142	PK	Horizonta	PASS
6	594.0550	41.68	-1.83	39.85	47.00	6.15	100	352	PK	Horizonta	PASS

Note:1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical

Test Graph



Suspected List											
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	48.4300	33.11	-6.47	26.64	40.00	13.36	100	291	PK	Vertical	PASS
2	67.8300	35.64	-9.34	26.30	40.00	13.70	100	44	PK	Vertical	PASS
3	169.1950	39.50	-11.35	28.15	43.50	15.35	100	266	PK	Vertical	PASS
4	233.2150	41.48	-8.75	32.73	46.00	13.27	100	266	PK	Vertical	PASS
5	359.8000	37.14	-5.99	31.15	46.00	14.85	100	26	PK	Vertical	PASS
6	600.3600	37.82	-1.72	36.10	46.00	9.90	100	44	PK	Vertical	PASS

Note:1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

For 1GHz to 25GHz

Note: We measured Radiated Emission at Antenna 0 & Antenna 1 802.11a / 802.11n (HT20) / 802.11ac (HT20) / 802.11n (HT40) / 802.11ac (HT40) / 802.11ac (HT80) modes have been tested for above 1GHz test, only the worst case 802.11ac (HT20) was recorded.

U-NII 1 & 802.11ac (HT20) Mode (above 1GHz)

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
36.00 (5180MHz)	5150.00	54.26	PK	H	68.20	13.94	46.98	34.44	7.12	34.28	7.28
	5150.00	45.87	AV	H	54.00	8.13	38.59	34.44	7.12	34.28	7.28
	10360.00	50.36	PK	H	68.20	17.84	34.63	39.20	11.45	34.92	15.73
	--	--	--	--	--	--	--	--	--	--	--
40.00 (5200MHz)	10400.00	51.05	PK	H	68.20	17.15	35.24	39.22	11.48	34.89	15.81
	--	--	--	--	--	--	--	--	--	--	--
48.00 (5240MHz)	5350.50	46.25	PK	H	68.20	21.95	39.22	34.23	7.36	34.56	7.03
	10480.00	50.87	PK	H	68.20	17.33	33.72	39.41	11.83	34.09	17.15
	--	--	--	--	--	--	--	--	--	--	--

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
36.00 (5180MHz)	5150.00	55.65	PK	V	68.20	12.55	48.37	34.44	7.12	34.28	7.28
	5150.00	46.75	AV	V	54.00	7.25	39.47	34.44	7.12	34.28	7.28
	10360.00	51.24	PK	V	68.20	16.96	35.51	39.20	11.45	34.92	15.73
	--	--	--	--	--	--	--	--	--	--	--
40.00 (5200MHz)	10400.00	51.73	PK	V	68.20	16.47	35.92	39.22	11.48	34.89	15.81
	--	--	--	--	--	--	--	--	--	--	--
48.00 (5240MHz)	5350.50	47.58	PK	V	68.20	20.62	40.55	34.23	7.36	34.56	7.03
	10480.00	51.85	PK	V	68.20	16.35	34.70	39.41	11.83	34.09	17.15
	--	--	--	--	--	--	--	--	--	--	--

U-NII 3 & 802.11ac (HT20) Mode (above 1GHz)

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
	5720.00	55.26	PK	H	68.20	12.94	47.98	34.44	7.12	34.28	7.28
149.00	5720.00	47.21	AV	H	54.00	6.79	35.70	37.64	9.28	35.41	11.51
(5745MHz)	11490.00	49.25	PK	H	68.20	18.95	30.99	39.69	12.90	34.33	18.26
	--	--	--	--	--	--		--	--	--	--
157.00	11570.00	51.23	PK	H	68.20	16.97	32.78	39.71	13.05	34.31	18.45
(5785MHz)	--	--	--	--	--	--	--	--	--	--	--
48.00	5855.00	49.45	PK	H	68.20	18.75	37.91	37.64	9.28	35.38	11.54
(5825MHz)	11650.00	51.74	PK	H	68.20	16.46	33.12	39.73	13.19	34.30	18.62
	--	--	--	--	--	--	--	--	--	--	--

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
	5720.00	56.32	PK	V	68.20	11.88	49.04	34.44	7.12	34.28	7.28
149.00	5720.00	48.05	AV	V	54.00	5.95	36.54	37.64	9.28	35.41	11.51
(5745MHz)	11490.00	51.44	PK	V	68.20	16.76	33.18	39.69	12.90	34.33	18.26
	--	--	--	--	--	--	--	--	--	--	--
157.00	11570.00	51.87	PK	V	68.20	16.33	33.42	39.71	13.05	34.31	18.45
(5785MHz)	--	--	--	--	--	--	--	--	--	--	--
48.00	5855.00	50.46	PK	V	68.20	17.74	38.92	37.64	9.28	35.38	11.54
(5825MHz)	11650.00	52.12	PK	V	68.20	16.08	33.50	39.73	13.19	34.30	18.62
	--	--	--	--	--	--	--	--	--	--	--

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.

4. -- Mean the other emission levels were very low against the limit.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.
6. Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20 ,IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;

4.3 Maximum Conducted Average Output Power

Limit

FCC requirement:
For the band 5.15-5.25 GHz.
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

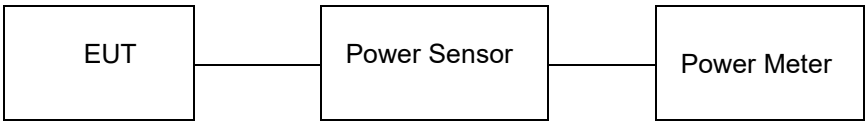
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

Temperature	22.8℃	Humidity	56%
Test Engineer	Moon Tan		

U-NII 1

Type	Channel	Output power Ant1 (dBm)	Output power Ant2 (dBm)	Output power Total (dBm)	Limit (dBm)	Result
802.11a	36	13.39	13.52	/	23.98	Pass
	40	12.79	12.70	/		
	48	12.98	12.83	/		
802.11n(HT20)	36	7.26	7.37	10.33	23.98	Pass
	40	7.27	7.29	10.29		
	48	7.34	7.29	10.33		
802.11n(HT40)	38	7.43	7.34	10.40	23.98	Pass
	46	7.38	7.47	10.44		
802.11ac(VHT20)	36	7.46	7.36	10.42	23.98	Pass
	40	7.18	7.23	10.22		
	48	7.05	6.96	10.02		
802.11ac(VHT40)	38	6.97	7.13	10.06	23.98	Pass
	46	7.01	6.96	10.00		
802.11ac(VHT80)	42	7.21	6.96	10.10	23.98	Pass

U-NII 3

Type	Channel	Output power Ant1 (dBm)	Output power Ant2 (dBm)	Output power Total (dBm)	Limit (dBm)	Result
802.11a	149	15.66	15.53	/	30.00	Pass
	157	14.28	13.46	/		
	165	13.34	12.54	/		
802.11n(HT20)	149	13.59	13.42	16.52	30.00	Pass
	157	13.38	13.21	16.31		
	165	13.26	13.08	16.18		
802.11n(HT40)	151	13.00	13.01	16.02	30.00	Pass
	159	12.80	12.84	15.83		
802.11ac(VHT20)	149	12.78	12.83	15.82	30.00	Pass
	157	12.46	12.53	15.51		
	165	12.16	12.69	15.44		
802.11ac(VHT40)	151	12.93	13.03	15.99	30.00	Pass
	159	12.35	12.83	15.61		
802.11ac(VHT80)	155	12.80	12.17	15.51	30.00	Pass

Note:

1. *Measured output power at difference data rate for each mode and recorded worst case for each mode.*
2. *Test results including cable loss;*
3. *Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20 ,IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*

4.4 Power Spectral Density

Limit

FCC requirement:
For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.[note1]

(ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.[note1]

(iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. [note1]

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

IC requirement:

For the band 5.15-5.25 GHz.

The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Frequency band 5250-5350 MHz

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band

Frequency bands 5470-5600 MHz and 5650-5725 MHz

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the band 5.725 - 5.85 GHz

The maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. [note1, note2]

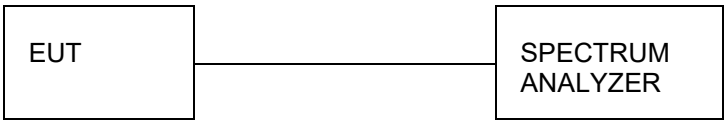
Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 510KHz for U-NII 3 band.
3. Set the VBW ≥ 3× RBW.
4. Set the span to encompass the entire EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.

Test Configuration



Test Results

Temperature	22.8℃	Humidity	56%
Test Engineer	Moon Tan		

U-NII 1

Type	*Channel*	Power Spectral Density Ant1 (dBm/MHz)	Power Spectral Density Ant2 (dBm/MHz)	Power Spectral Density Total (dBm/ MHz)	*Limit (dBm/ MHz)*	*Result*
802.11a	36	-3.318	-2.627	/	11	Pass
	40	-2.618	-2.413	/		
	48	-2.977	-3.017	/		
802.11n(HT20)	36	-7.280	-7.594	-4.424		Pass
	40	-6.656	-6.764	-3.699		
	48	-6.529	-6.684	-3.596		
802.11n(HT40)	38	-7.725	-7.483	-4.592		Pass
	46	-7.745	-7.931	-4.827		
802.11ac(VHT20)	36	-6.870	-7.170	-4.007		Pass
	40	-6.832	-6.843	-3.827		
	48	-6.709	-6.769	-3.729		
802.11ac(VHT40)	38	-7.109	-6.714	-3.897		Pass
	46	-6.546	-6.972	-3.743		
802.11ac(VHT80)	42	-6.055	-5.709	-2.868		Pass

U-NII 3

Type	*Channel*	Power Spectral Density Ant1 (dBm/500KHz)	Power Spectral Density Ant2 (dBm/500KHz)	Power Spectral Density Total (dBm/ 500KHz)	*Limit (dBm/500KHz)*	*Result*
802.11a	149	3.967	4.327	/	30	Pass
	157	3.092	3.128	/		
	165	3.354	1.993	/		
802.11n(HT20)	149	3.727	3.758	6.753		Pass
	157	3.169	3.894	6.557		
	165	2.406	3.401	5.942		
802.11n(HT40)	151	0.161	1.069	3.649		Pass
	159	-1.044	-1.023	1.977		
802.11ac(VHT20)	149	3.965	3.602	6.798		Pass
	157	2.803	2.340	5.588		
	165	2.218	2.110	5.175		
802.11ac(VHT40)	151	0.776	-0.319	3.273		Pass
	159	-1.370	0.714	2.806		
802.11ac(VHT80)	155	-3.431	-2.834	-0.112		Pass

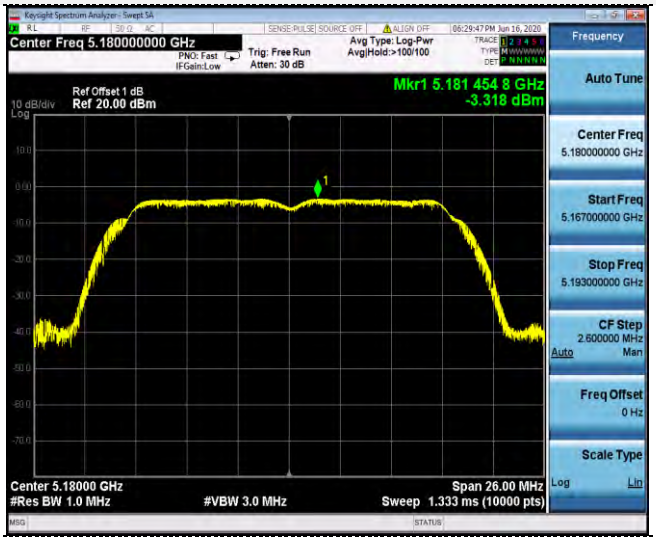
Note:

1. *Measured output power at difference data rate for each mode and recorded worst case for each mode.*
2. *Test results including cable loss;*
3. *Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20 ,IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*
4. *Please refer to following test plots;*

Ant.1

802.11a

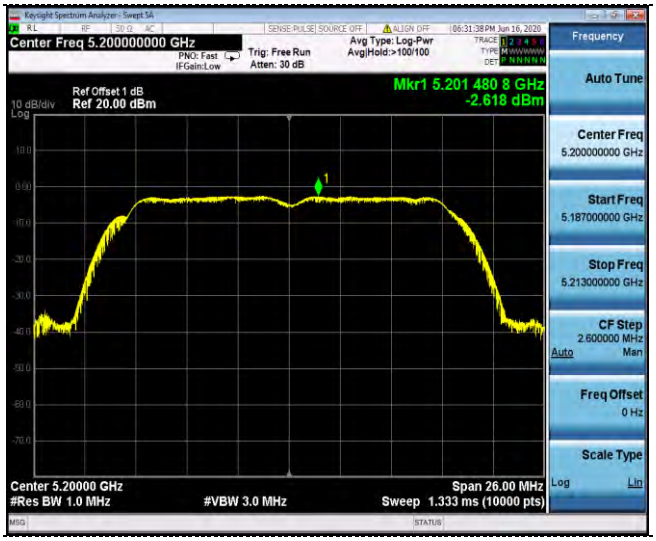
U-NII 1



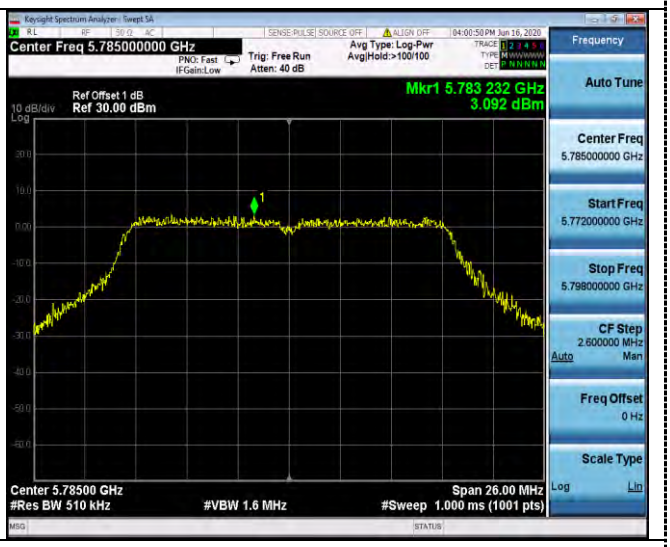
CH36

U-NII 3

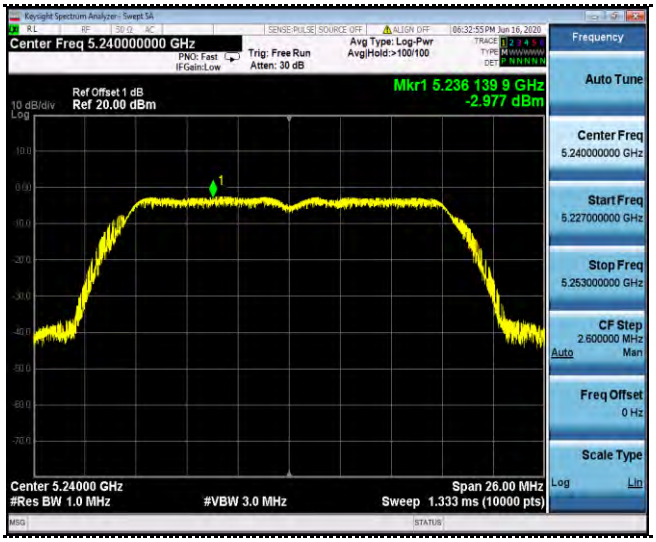
CH149



CH40



CH157



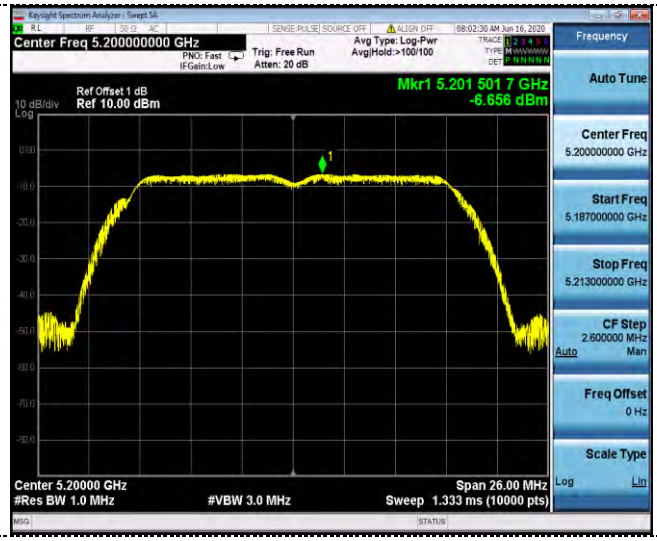
CH48

CH165

802.11n(HT20)

U-NII 1

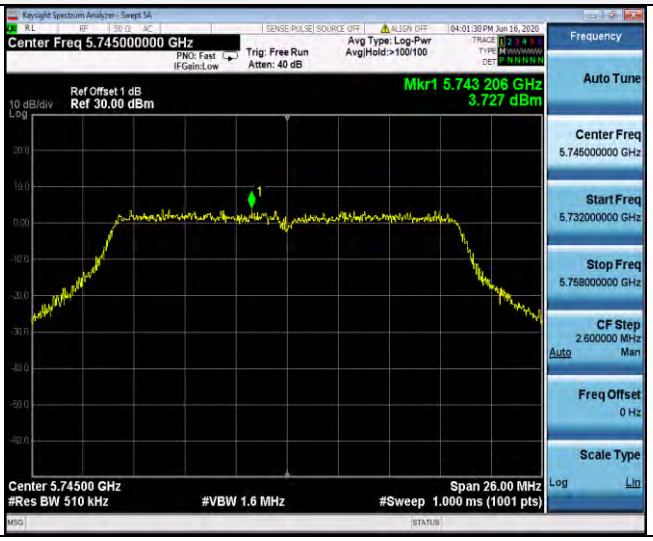
CH36



CH40

CH48

U-NII 3



CH149

CH157

CH165

802.11n(HT40)	
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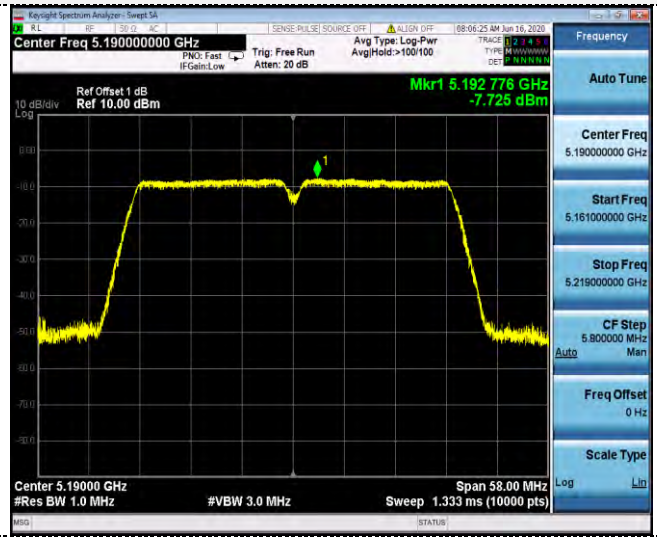
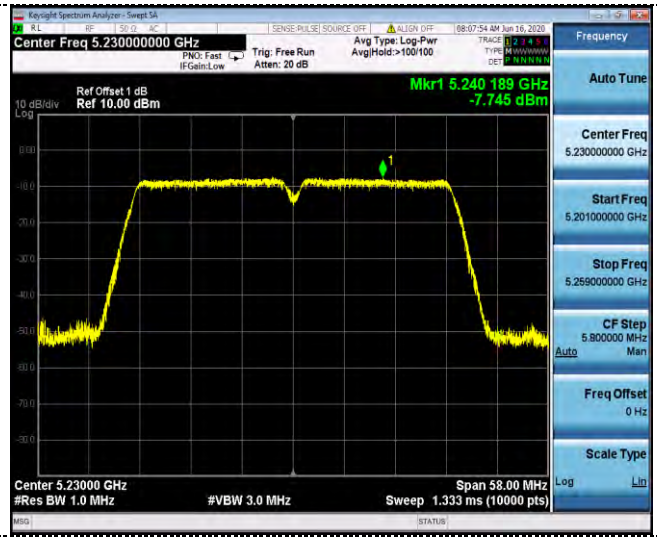
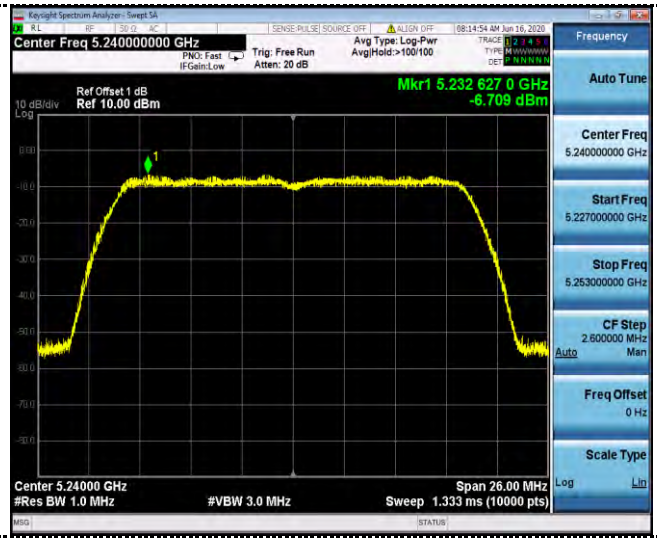
	
CH38	CH151
	
CH46	CH159

802.11ac(VHT20)

U-NII 1

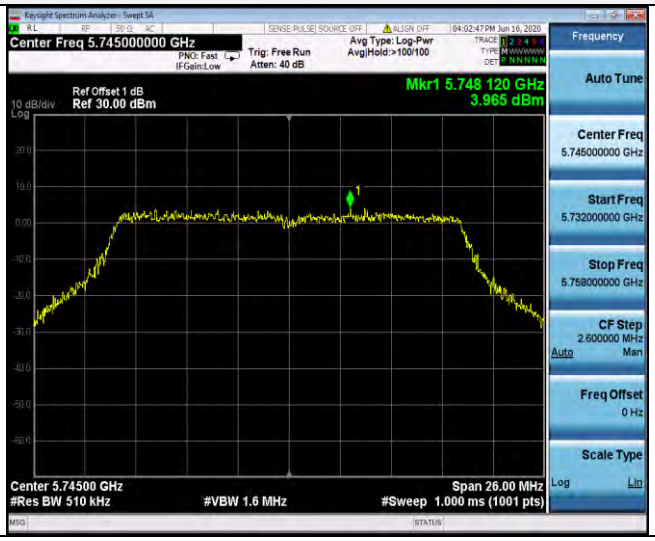
CH36

CH40



CH48

U-NII 3



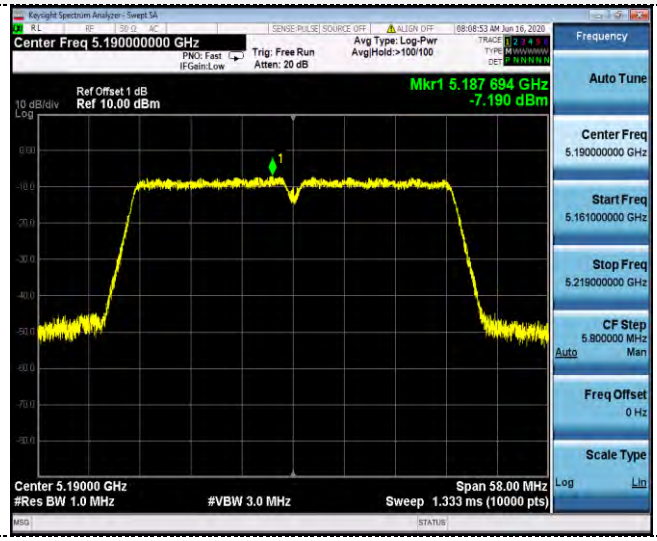
CH149

CH157

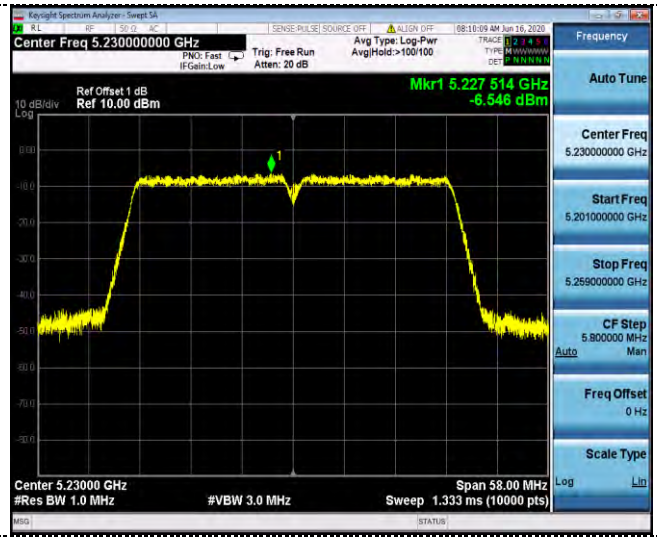
CH165

802.11ac(VHT40)

U-NII 1



CH38



CH46

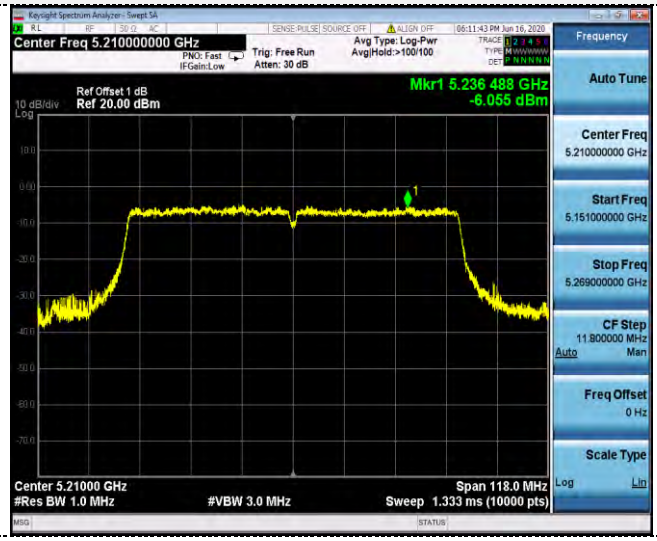
U-NII 3

CH151

CH159

802.11ac(VHT80)

U-NII 1



CH42

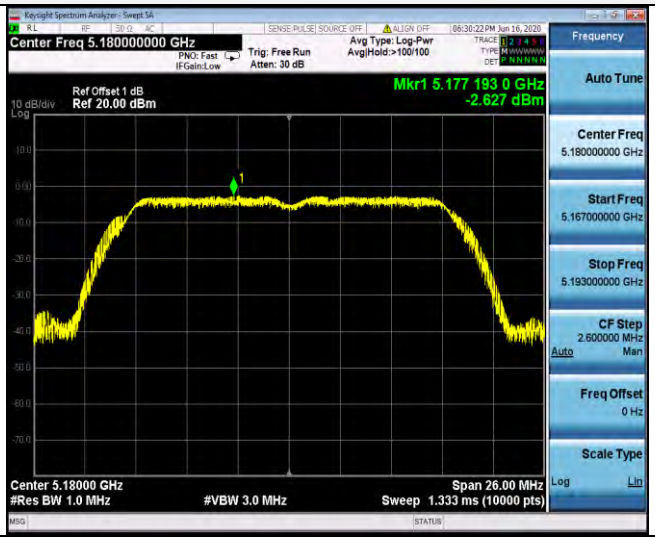
U-NII 3

CH155

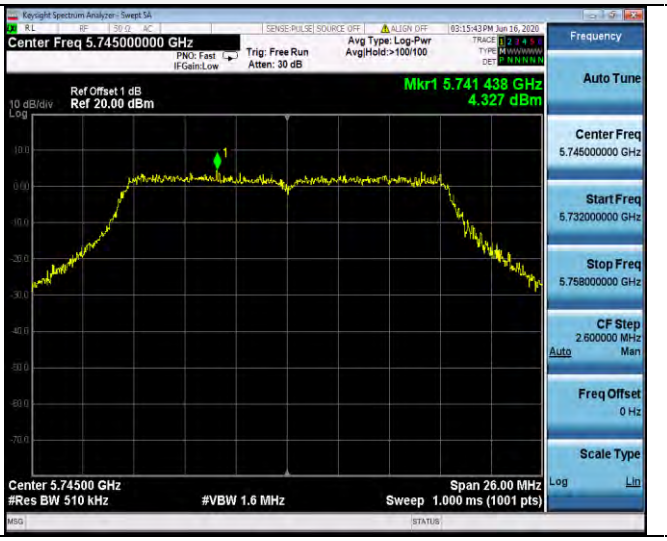
Ant.2

802.11a

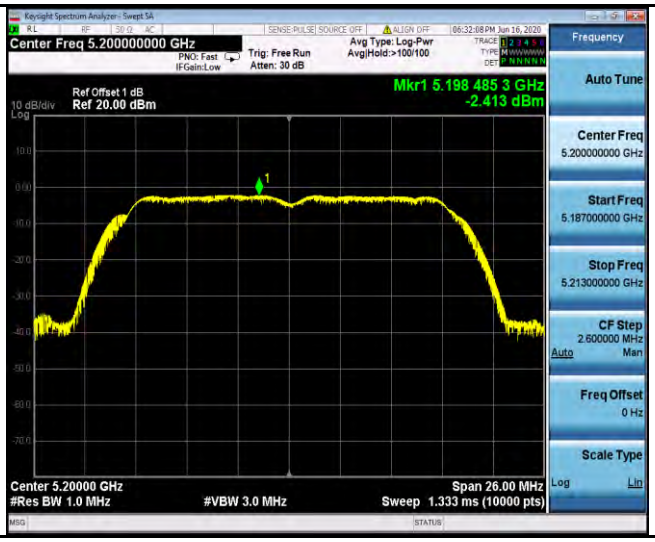
U-NII 1



U-NII 3

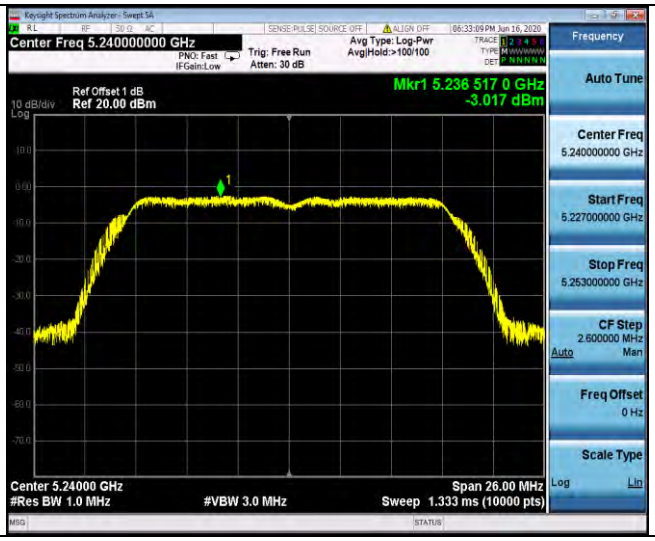


CH36

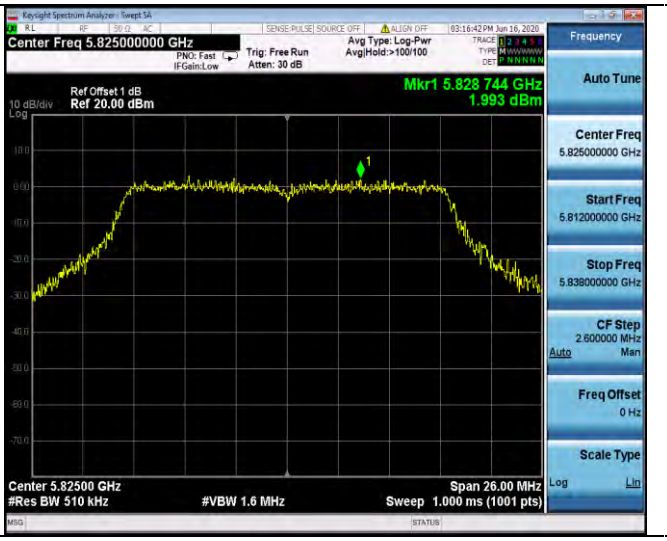


CH149

CH40



CH157

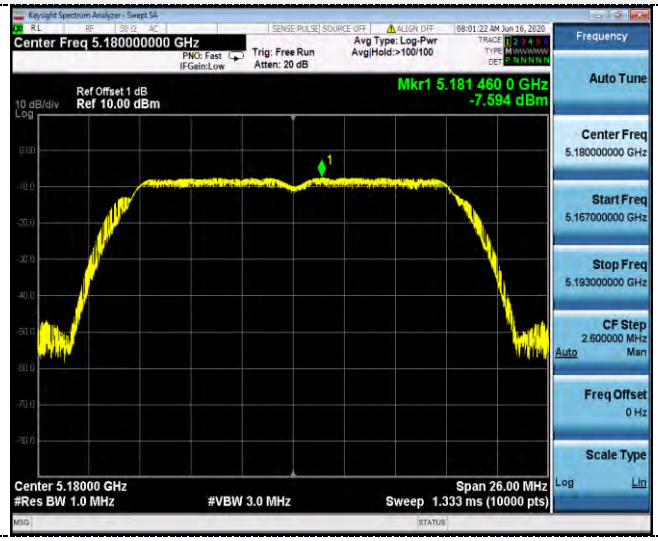


CH48

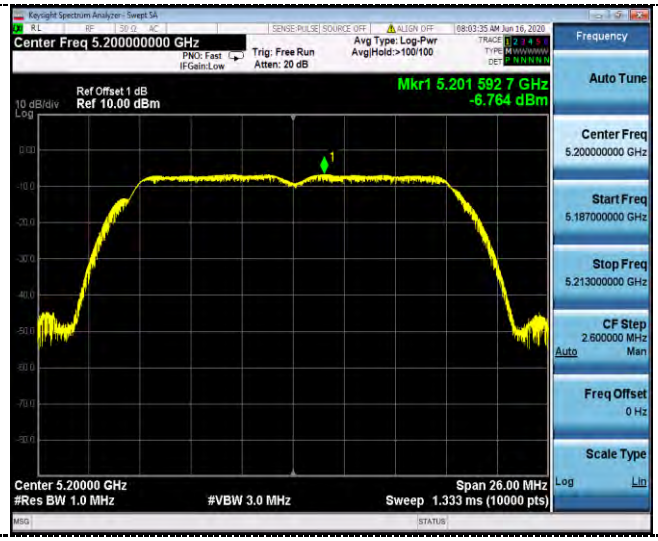
CH165

802.11n(HT20)

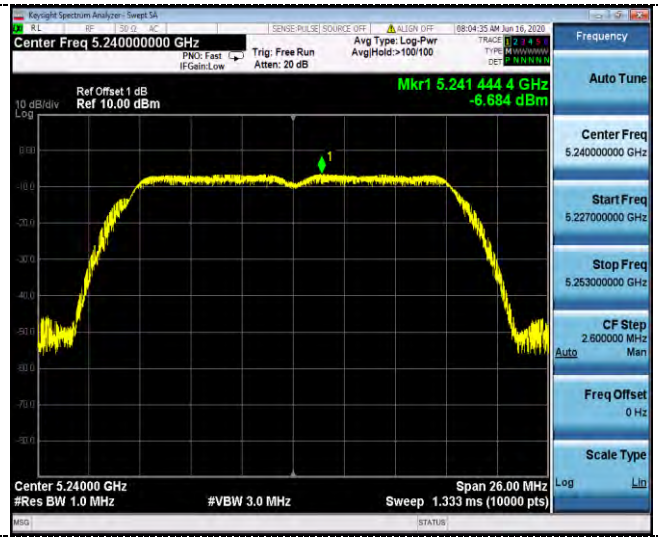
U-NII 1



CH36

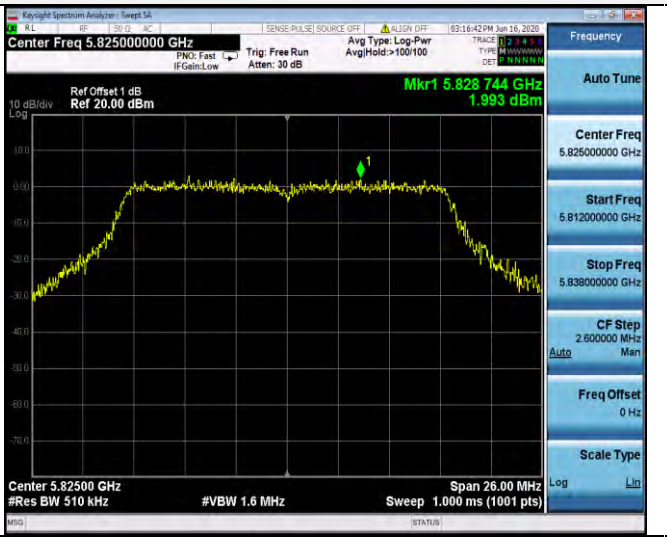


CH40



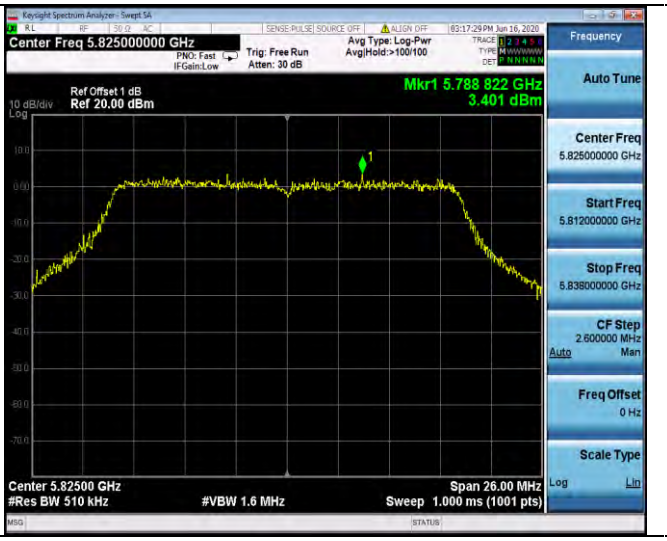
CH48

U-NII 3



CH149

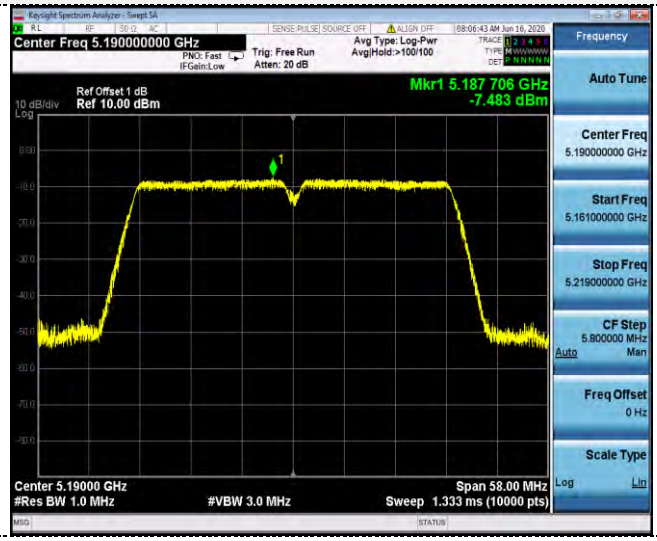
CH157



CH165

802.11n(HT40)

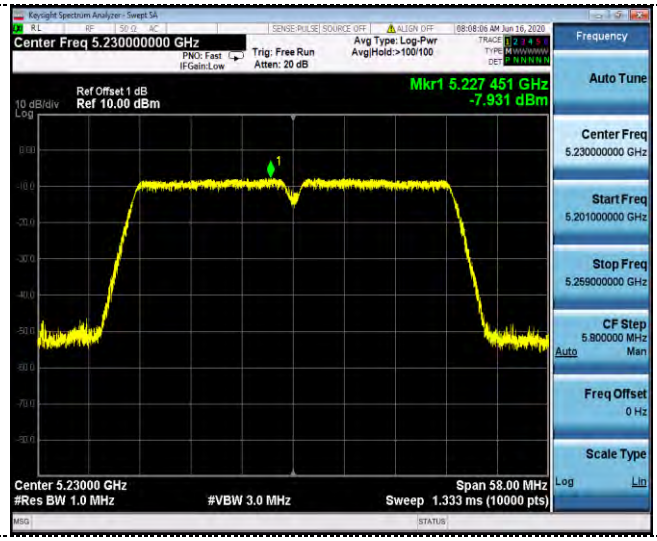
U-NII 1



CH38

U-NII 3

CH151

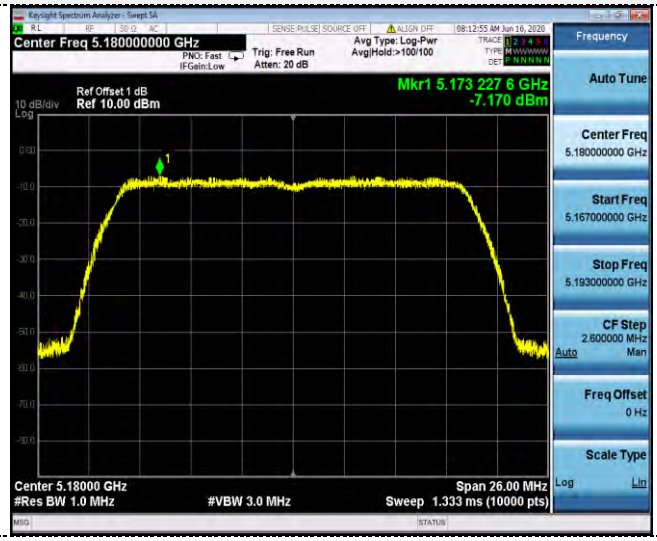


CH46

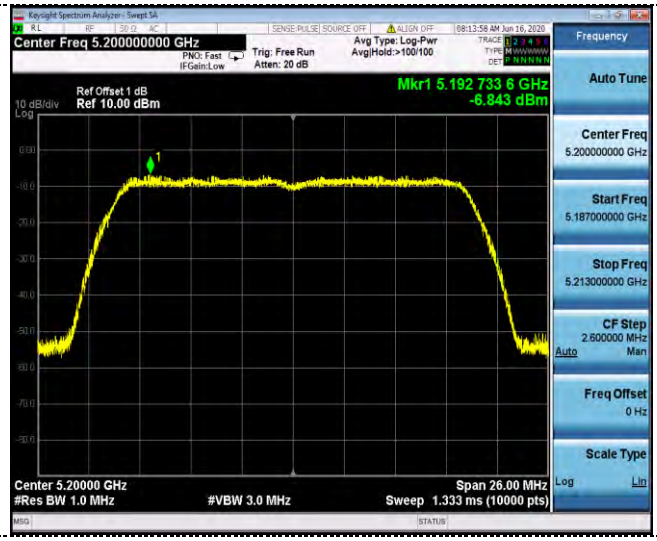
CH159

802.11ac(VHT20)

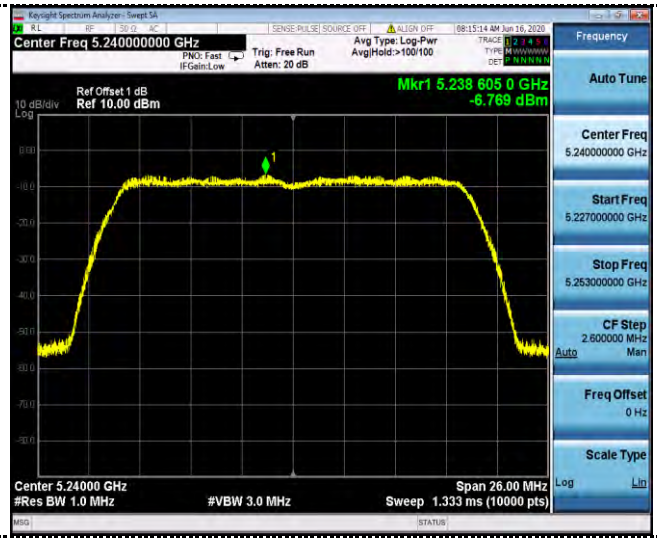
U-NII 1



CH36



CH40



CH48

U-NII 3

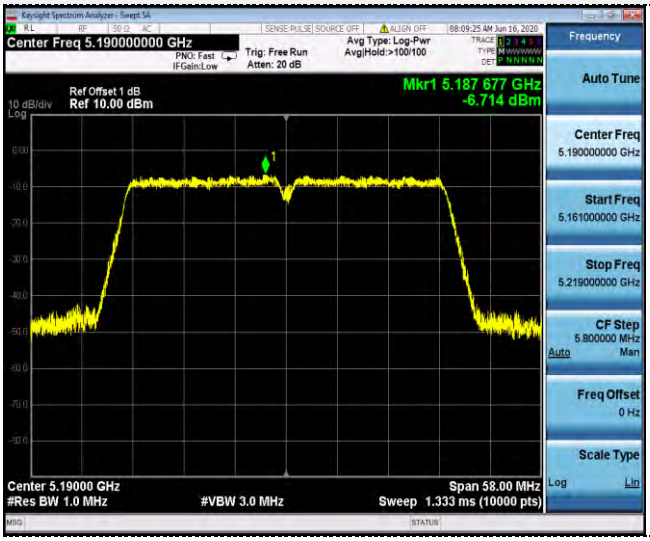
CH149

CH157

CH165

802.11ac(VHT40)

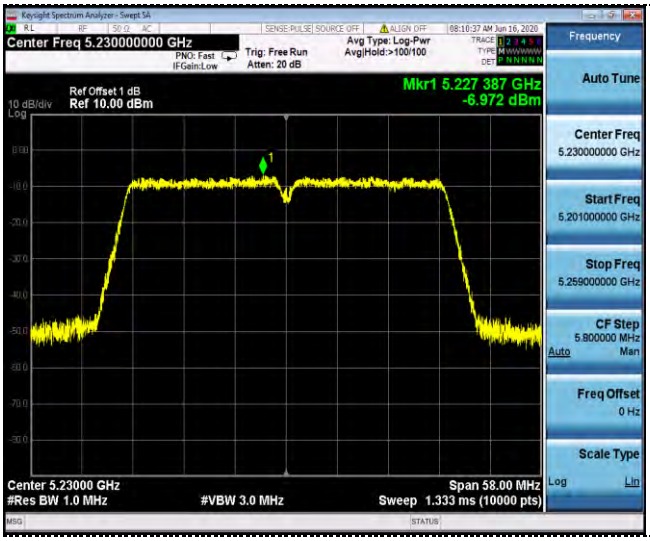
U-NII 1



CH38

U-NII 3

CH151

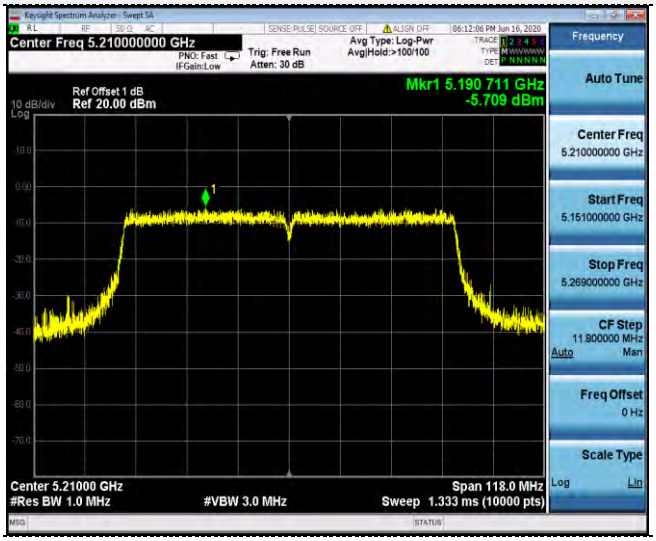


CH46

CH159

802.11ac(VHT80)

U-NII 1



CH42

U-NII 3

CH155

4.5 Emission Bandwidth (26dBm Bandwidth)

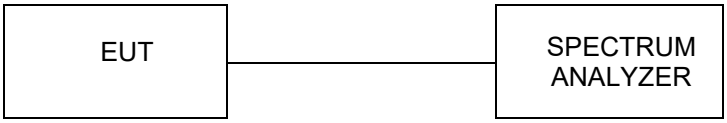
Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration



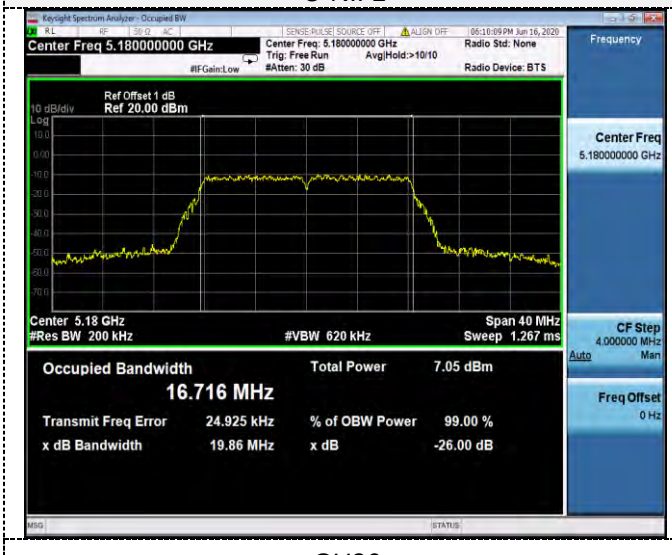
Test Results

Type	Bands	Channel	26dB Bandwidth (MHz)		Limit (MHz)	Result
			Ant. 1	Ant. 2		
802.11a	U-NII 1	36	19.86	19.95	N/A	Pass
		40	19.91	19.94		
		48	19.93	19.96		
802.11n(HT20)	U-NII 1	36	19.92	19.99		
		40	19.83	19.89		
		48	19.95	19.98		
802.11n(HT40)	U-NII 1	38	39.97	39.97		
		46	39.79	39.87		
802.11ac(HT20)	U-NII 1	36	19.69	19.83	N/A	Pass
		40	19.74	19.85		
		48	19.72	19.76		
802.11ac(HT40)	U-NII 1	38	39.35	39.49		
		46	39.45	39.73		
802.11ac(HT80)	U-NII 1	42	87.55	86.67		

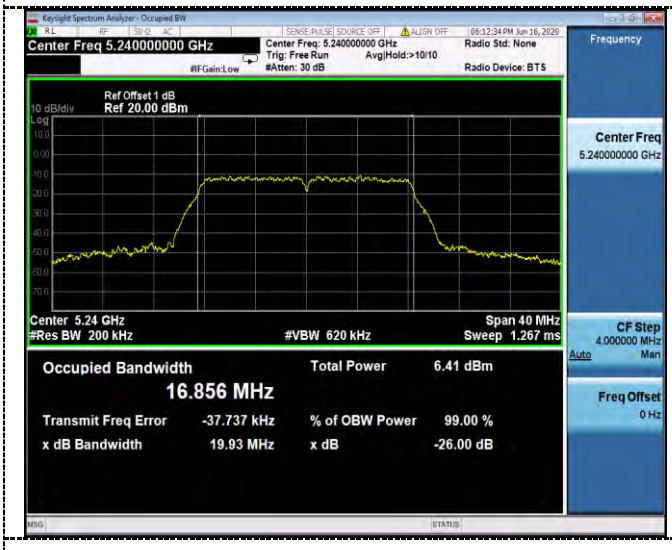
Note:

1. *Measured 26dB bandwidth at difference data rate for each mode and recorded worst case for each mode.*
2. *Test results including cable loss;*
3. *Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20 ,IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*
4. *Please refer to following test plots;*

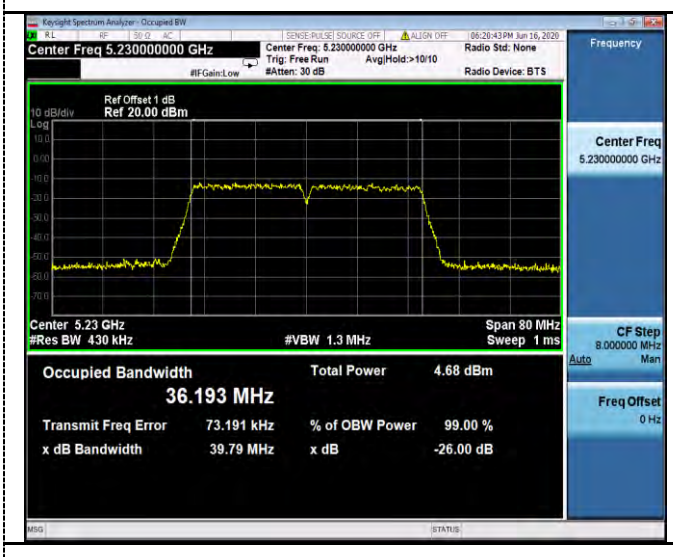
Ant.1

802.11a	802.11n(HT20)
U-NII 1	U-NII 1
	

CH36	CH36

CH40	CH40
	

CH48	CH48

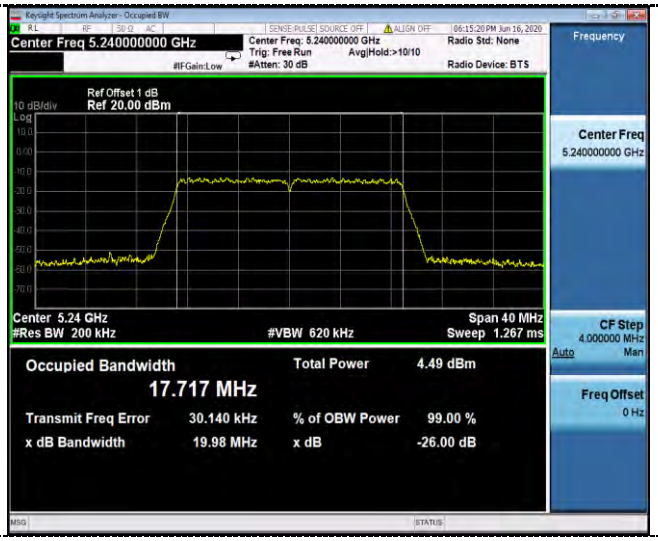
802.11n(HT40)	802.11ac(VHT20)
U-NII 1	U-NII 1
CH38	CH36
	
CH46	CH40
	CH48

802.11ac(VHT40)	802.11ac(VHT80)
U-NII 1	U-NII 1
CH38	CH42
CH46	

Ant.2

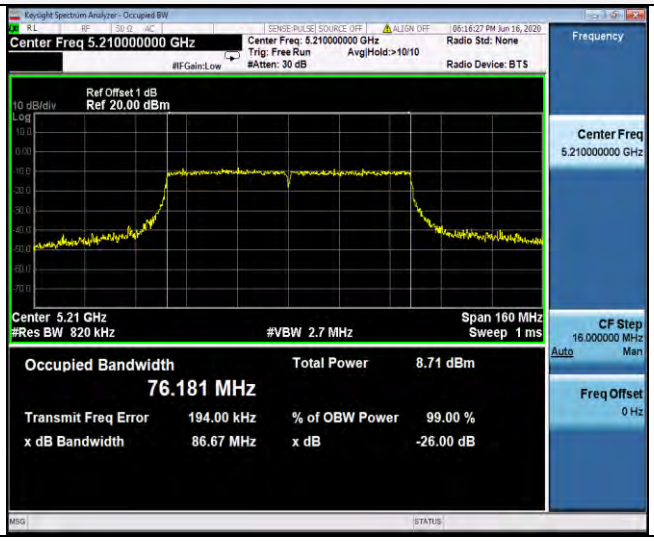
802.11a	802.11n(HT20)
U-NII 1	U-NII 1

| CH36 | CH36 |
| | |

| CH40 | CH40 |
| |  |

| CH48 | CH48 |

802.11n(HT40)	802.11ac(VHT20)
U-NII 1	U-NII 1
CH38	CH36
CH46	CH40
	CH48

802.11ac(VHT40)	802.11ac(VHT80)
U-NII 1	U-NII 1
	
CH38	CH42
CH46	

4.6 Minimum Emission Bandwidth (6dBm Bandwidth)

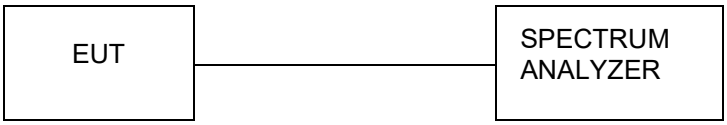
Limit

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

Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. 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.

Test Configuration



Test Results

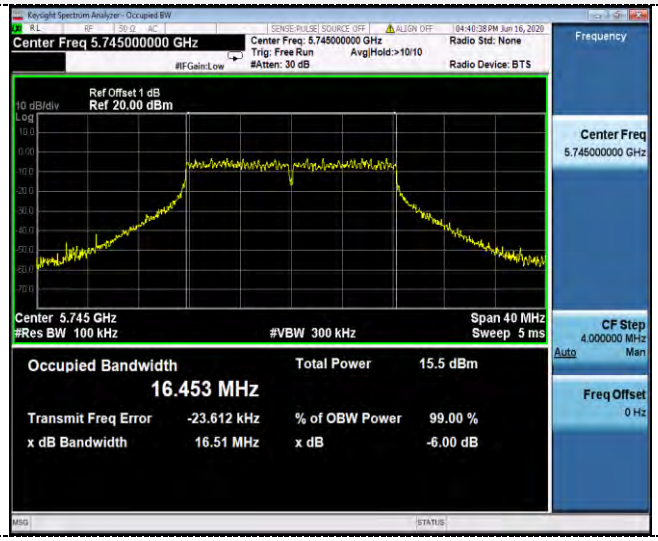
Type	Bands	Channel	6dB Bandwidth (MHz)		Limit (KHz)	Result
			Ant. 1	Ant. 2		
802.11a	U-NII 3	149	16.51	16.47	≥500KHz	Pass
		157	16.45	16.49		
		165	16.46	16.50		
802.11n(HT20)	U-NII 3	149	17.75	17.73		
		157	17.75	17.73		
		165	17.75	17.71		
802.11n(HT40)	U-NII 3	151	36.34	36.46		
		159	36.13	35.80		
802.11ac(HT20)	U-NII 3	149	17.71	17.73		
		157	17.67	17.72		
		165	17.68	17.59		
802.11ac(HT40)	U-NII 3	151	36.39	36.42		
		159	36.12	36.07		
802.11ac(HT80)	U-NII 3	155	76.43	75.88		

Note:

1. *Measured 6dB bandwidth at difference data rate for each mode and recorded worst case for each mode.*
2. *Test results including cable loss;*
3. *Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20 ,IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*
4. *Please refer to following test plots;*

Ant1

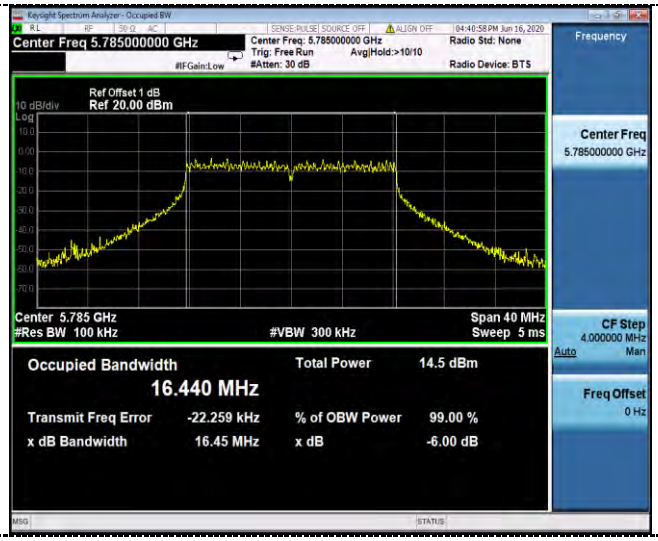
802.11a



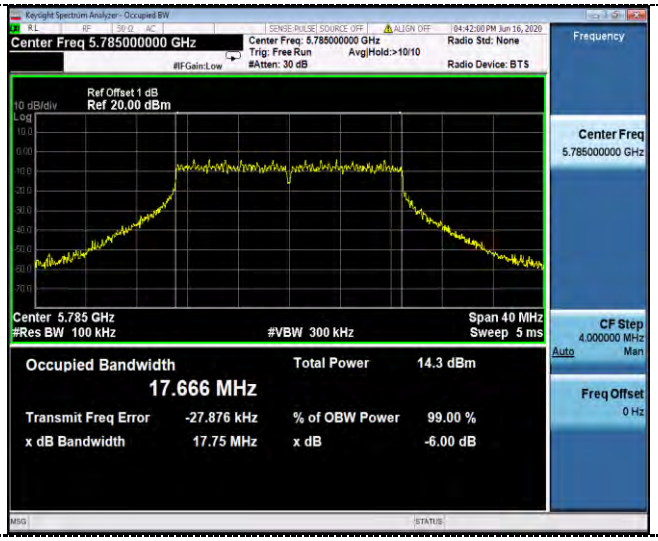
CH149

802.11n(HT20)

CH149



CH157



CH157

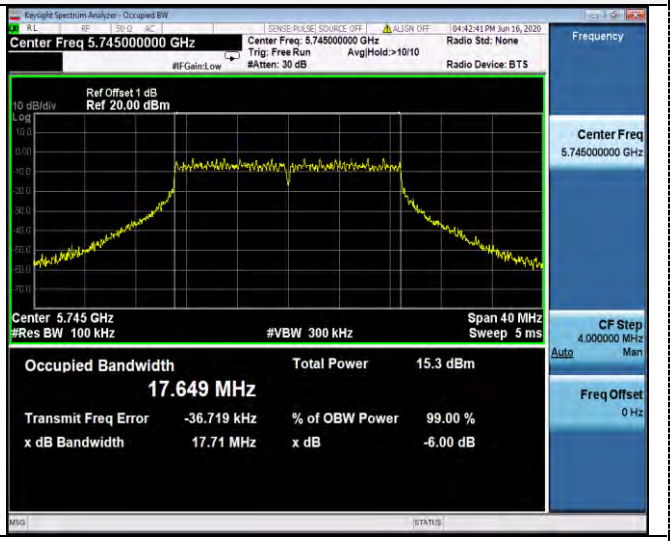
CH165

CH165

802.11n(HT40)

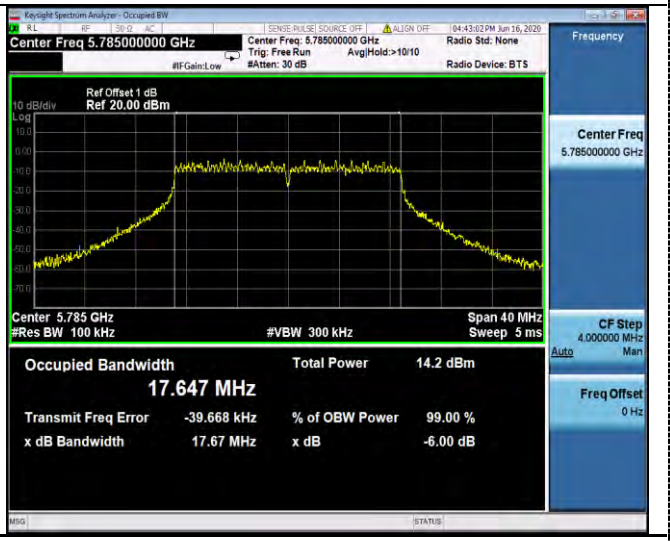
CH151

802.11ac(VHT20)



CH149

CH159



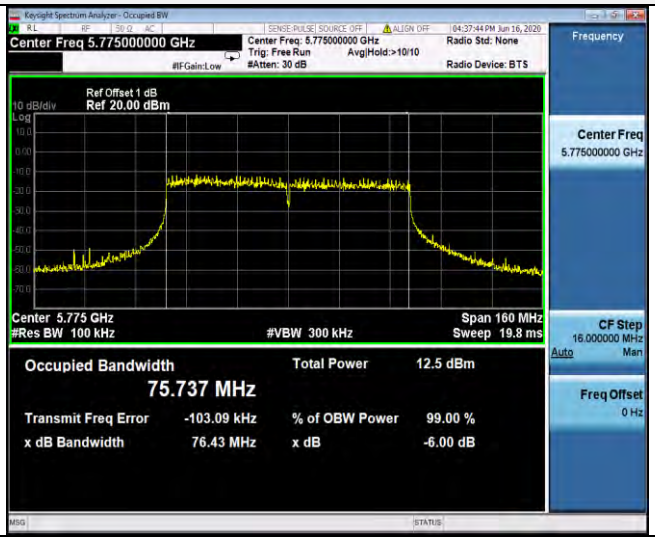
CH157

CH165

802.11ac(VHT40)

CH151

802.11ac(VHT80)



CH155

CH159

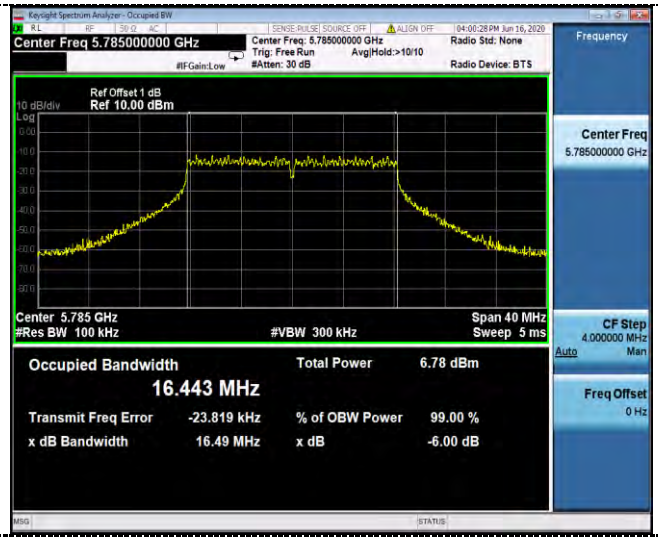
Ant2

802.11a

CH149

802.11n(HT20)

CH149



CH157

CH157

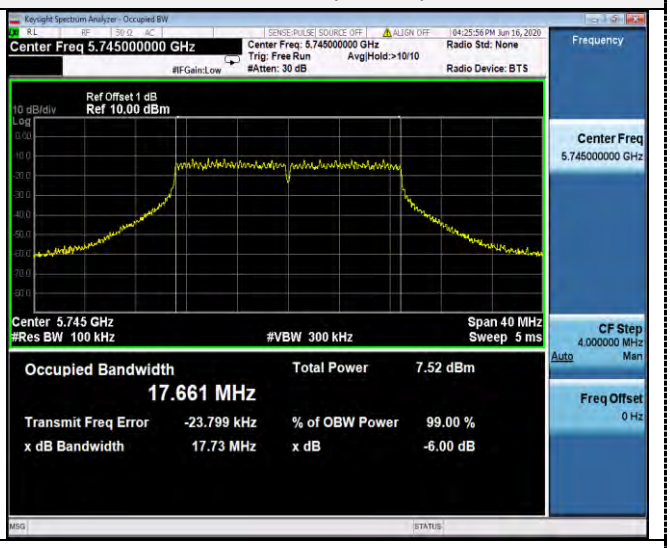
CH165

CH165

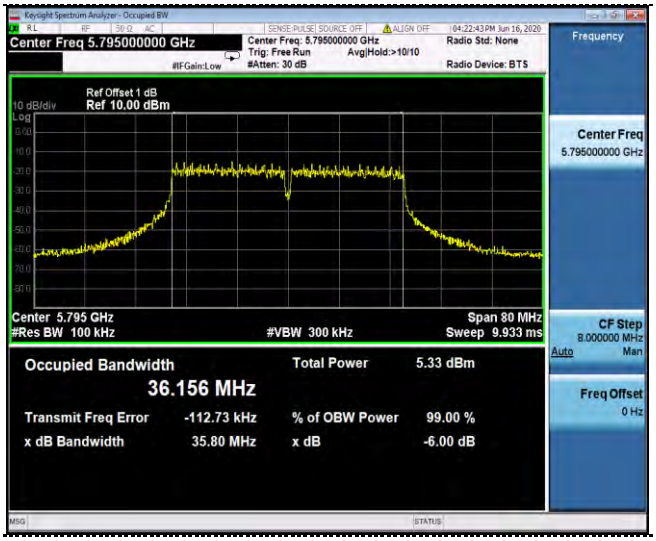
802.11n(HT40)

CH151

802.11ac(VHT20)



CH149



CH159

CH157

CH165

802.11ac(VHT40)

CH151

802.11ac(VHT80)

CH155

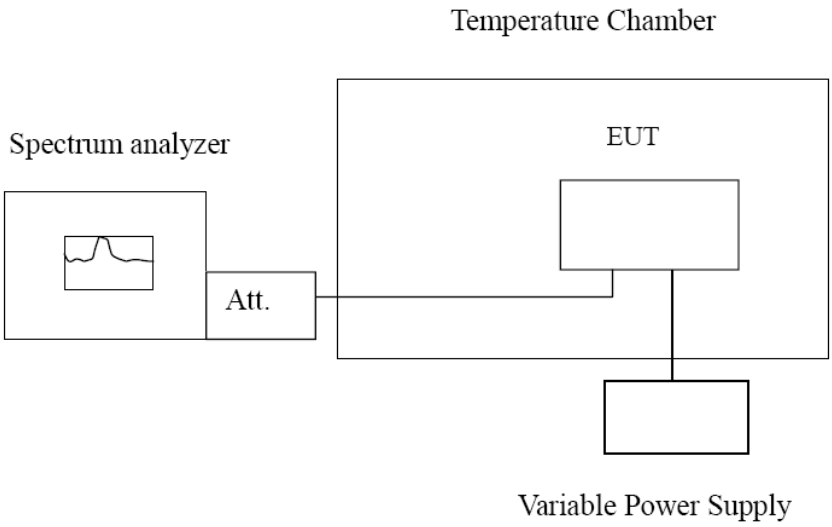
CH159

Frequency Stability

LIMIT

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 users manual.

TEST CONFIGURATION



TEST PROCEDURE

Frequency Stability under Temperature Variations:
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

Frequency Stability under Voltage Variations:
Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

TEST RESULTS

Record worst case (802.11a) as below:

Reference Frequency: 802.11a channel=36 frequency=5180MHz					
Voltage (V)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120	-30	61.29	0.012	Within the band of operation	Pass
	-20	44.95	0.009		
	-10	52.23	0.010		
	0	31.03	0.006		
	10	68.44	0.013		
	20	54.89	0.011		
	30	47.52	0.009		
	40	42.25	0.008		
	50	83.23	0.016		
138	25	94.34	0.018		
102	25	40.70	0.008		

Reference Frequency: 802.11a channel=149 frequency=5745MHz					
Voltage (V)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120	-30	32.33	0.006	Within the band of operation	Pass
	-20	33.47	0.006		
	-10	62.27	0.011		
	0	82.13	0.014		
	10	86.54	0.015		
	20	50.76	0.009		
	30	57.82	0.010		
	40	73.75	0.013		
	50	88.00	0.015		
138	25	55.56	0.010		
102	25	36.51	0.006		

5 Test Setup Photos of the EUT

6 Photos of the EUT

Reference to the test report No. GTS20200528006-1-5-1

********** **End of Report** **********