

# FCC TEST REPORT

**FCC ID: 2BQ9Z-SK510**

**Report No.** : SSP25070114-3E

**Applicant** : Beijing ShixianTechnology Co., Ltd.

**Product Name** : MR Home Smart Terminal

**Model Name** : SK510, SK550, SK560

**Test Standard** : FCC Part 15 Subpart E

**Date of Issue** : 2025-08-11



**Shenzhen CCUT Quality Technology Co., Ltd.**

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen,  
Guangdong, China; (Tel.:+86-755-23406590 website: [www.ccuttest.com](http://www.ccuttest.com))

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

**Test Report Basic Information**

<b>Applicant</b> .....:	Beijing ShixianTechnology Co., Ltd. Room (02), 1602, 16th Floor, Building 12, Taiyang Palace Middle Road, Address of Applicant.....: Chaoyang District, Beijing, China
<b>Manufacturer</b> .....:	Beijing ShixianTechnology Co., Ltd. Room (02), 1602, 16th Floor, Building 12, Taiyang Palace Middle Road, Address of Manufacturer.....: Chaoyang District, Beijing, China
<b>Product Name</b> .....:	MR Home Smart Terminal
<b>Brand Name</b> .....:	N/A
<b>Main Model</b> .....:	SK510
<b>Series Models</b> .....:	SK550, SK560
<b>Test Standard</b> .....:	FCC Part 15 Subpart E KDB 789033 D02 v02r01 ANSI C63.4-2014 ANSI C63.10-2013
<b>Date of Test</b> .....	2025-06-27 to 2025-08-11
<b>Test Result</b> .....:	PASS
<b>Tested By</b> .....	<u>Choco Qiu</u> (Choco Qiu)
<b>Reviewed By</b> .....:	<u>Lieber Ouyang</u> (Lieber Ouyang)
<b>Authorized Signatory</b> .....:	<u>Lahm Peng</u> (Lahm Peng)
<b>Note :</b> This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.	



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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2025-08-11	Initial Release	Lahm Peng

# 1. General Information

## 1.1 Product Information

Product Name:	MR Home Smart Terminal
Trade Name:	N/A
Main Model:	SK510
Series Models:	SK550, SK560
Rated Voltage:	DC 12V
Power Adapter:	Input: AC 100-240V/50-60Hz, Output: DC 12V/3A
Test Sample No:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer.	
Note 2: The listed series name is different from the main model, but the circuit and electronic structure are the same, as declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	802.11a(HT20) 802.11n(HT20/HT40) 802.11ac(VHT20/VHT40/VHT80)
Operating Frequency:	802.11a/n/ac(HT/VHT20): U-NII Band 1: 5180MHz to 5240MHz U-NII Band 3: 5745MHz to 5825MHz 802.11n/ac(HT/VHT40): U-NII Band 1: 5190MHz to 5230MHz U-NII Band 3: 5755MHz to 5795MHz 802.11ac(HT/VHT80): U-NII Band 1: 5210MHz U-NII Band 3: 5775MHz
Number of Channel:	802.11a/n/ac(HT/VHT20): 4 for Band 1, 5 for Band 4 802.11n/ac(HT/VHT40): 2 for Band 1, 2 for Band 4 802.11ac(VHT80): 1 for Band 1, 1 for Band 4
Modulation:	OFDM(BPSK, QPSK, BPSK, 16QAM, 64QAM, 256QAM)
Antenna Gain:	1.91dBi
Type of Antenna:	Internal Antenna
Type of Device:	<input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device

Channel List for UNII Band 1 (5150-5250MHz)							
802.11a/n/ac(20MHz)				802.11n/ac(40MHz)		802.11ac(80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	<u>5180</u>	44	5220	38	<u>5190</u>	42	<u>5210</u>
40	<u>5200</u>	48	<u>5240</u>	46	<u>5230</u>	--	--

Channel List for UNII Band 4 (5725-5850MHz)							
802.11a/n/ac(20MHz)		802.11n/ac(40MHz)		802.11ac(80MHz)		(160MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	<u>5745</u>	151	<u>5755</u>	155	<u>5775</u>	--	--
153	5765	159	<u>5795</u>	--	--	--	--
157	<u>5785</u>	--	--	--	--	--	--
161	5805	--	--	--	--	--	--
165	<u>5825</u>	--	--	--	--	--	--

## 1.2 Test Setup Information

List of Test Modes				
Test Mode	Description	Remark		
TM1	UNII Band 1_802.11a(HT20)	5180MHz/5200MHz/5240MHz		
TM2	UNII Band 1_802.11n(HT20)	5180MHz/5200MHz/5240MHz		
TM3	UNII Band 1_802.11n(HT40)	5190MHz/5230MHz		
TM4	UNII Band 1_802.11ac(VHT20)	5180MHz/5200MHz/5240MHz		
TM5	UNII Band 1_802.11ac(VHT40)	5190MHz/5230MHz		
TM6	UNII Band 1_802.11ac(VHT80)	5210MHz		
TM7	UNII Band 4_802.11a(HT20)	5745MHz/5785MHz/5825MHz		
TM8	UNII Band 4_802.11n(HT20)	5745MHz/5785MHz/5825MHz		
TM9	UNII Band 4_802.11n(HT40)	5755MHz/5795MHz		
TM10	UNII Band 4_802.11ac(VHT20)	5745MHz/5785MHz/5825MHz		
TM11	UNII Band 4_802.11ac(VHT40)	5755MHz/5795MHz		
TM12	UNII Band 4_802.11ac(VHT80)	5775MHz		
List and Details of Auxiliary Cable				
Description		Length (cm)	Shielded/Unshielded	With/Without Ferrite
-		-	-	-
-		-	-	-
List and Details of Auxiliary Equipment				
Description		Manufacturer	Model	Serial Number
AC/DC ADAPTER		Shenzhen Runfeng Power Technology Co., LTD	RSF-DY098B-1203000CN	-
-		-	-	-

### 1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart E	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Unlicensed National Information Infrastructure Devices
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart E	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Unlicensed National Information Infrastructure Devices
KDB 789033 D02 v02r01	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

### 1.4 Test Facilities

Laboratory Name:	<b>Shenzhen CCUT Quality Technology Co., Ltd.</b> 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6893.01
FCC Registration No.:	583813
FCC Designation No.:	CN1373
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	



## 1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
<b>Conducted Emissions</b>					
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06
Test Cable	N/A	Cable 5	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
<b>Radiated Emissions</b>					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2024-08-07	2025-08-06
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06
Amplifier	HUABO	YXL0518-2.5-45	--	2024-08-07	2025-08-06
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2024-08-07	2025-08-06
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024-08-03	2025-08-02
Attenuator	QUANJUDA	6dB	220731	2024-08-07	2025-08-06
Test Cable	N/A	Cable 1	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 2	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 3	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 4	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 8	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 9	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
<b>Conducted RF Testing</b>					
RF Test System	MWRFTTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06
RF Test Software	MWRFTTest	MTS 8310	N/A	N/A	N/A
Laptop	Lenovo	ThlnkPad E15 Gen 3	SPPOZ22485	N/A	N/A

DUT Test Software	Manufacturer	Model	version	Test power levels
	/	adb	/	Maximum

## 1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Conducted Output Power	9kHz ~ 26GHz	±0.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
Conducted Spurious Emission	9kHz ~ 26GHz	±1.32 dB
Power Spectrum Density	9kHz ~ 26GHz	±0.62 dB

## 2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 2.1091	RF Exposure(see the RF exposure report)	Passed
FCC Part 15.207, 15.407(b)(9)	Conducted Emissions	Passed
FCC Part 15.209, 15.407(b)(9), (10)	Radiated Emissions	Passed
FCC Part 15.407(b)(10)	Band-edge Emissions(Radiated)	Passed
FCC Part 15.407(a)(1), (2), (3)	Maximum Peak Conducted Output Power	Passed
FCC Part 15.407(a)(2), (e)	Occupied Bandwidth	Passed
FCC Part 15.407(a)(1), (2), (3)	Maximum Power Spectral Density	Passed
FCC Part 15.407 (g)	Frequency Stability	Passed
FCC Part 15.407 (h)	Transmit Power Control (TPC)	N/A
FCC Part 15.407 (h)	Dynamic Frequency Selection (DFS)	N/A
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

### **3. Antenna Requirement**

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#### **3.1 Standard and Limit**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Test Result**

This product has an integral antenna, and the maximum antenna gain is 1.91dBi, fulfill the requirement of this section.

## 4. Conducted Emissions

### 4.1 Standard and Limit

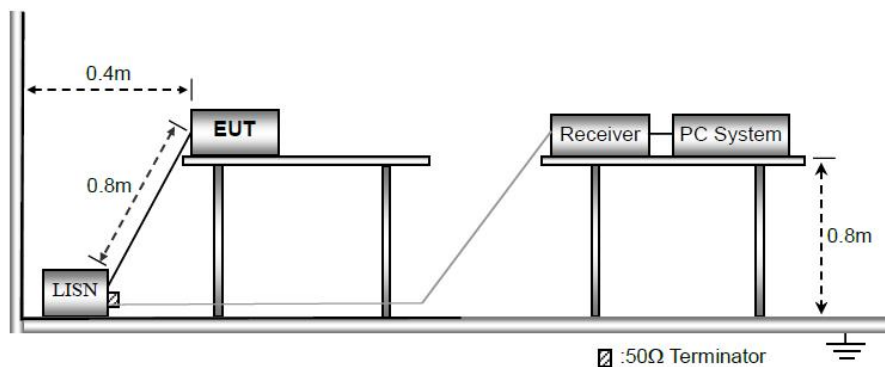
According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz  
 Note 2: The lower limit applies at the band edges

### 4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz

Stop Frequency: 30MHz

IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

- d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

### **4.3 Test Data and Results**

Both band1 and band4 all of the 802.11a, 802.11n and 802.11ac modes have been tested, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case 802.11a\_5180MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

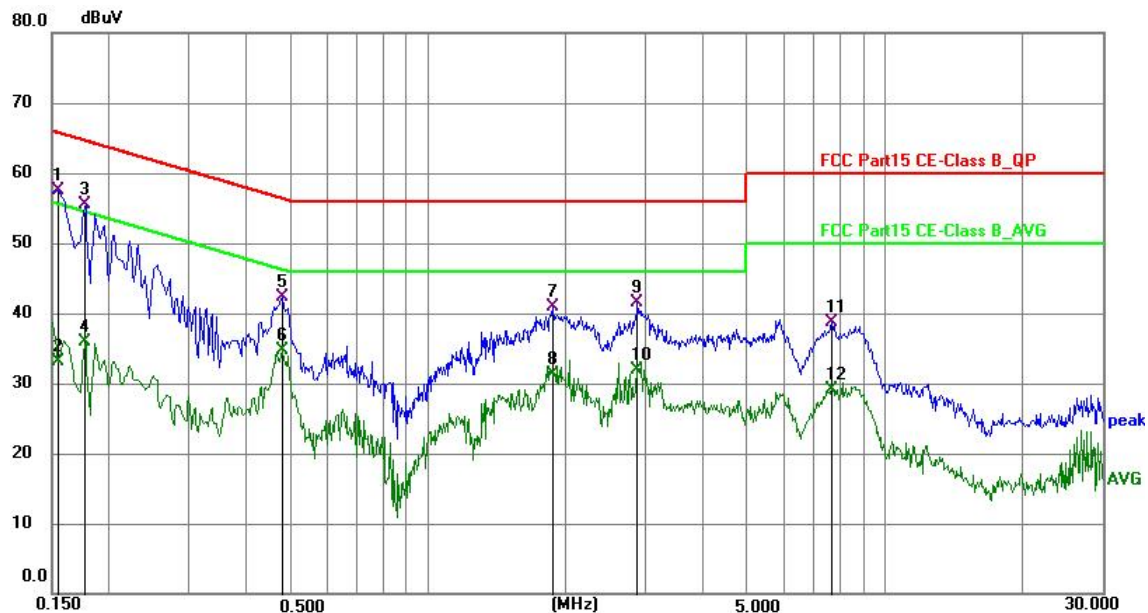
## Test Plots and Data of Conducted Emissions

Tested Mode: TM1

Test Voltage: AC 120V/60Hz

Test Power Line: Neutral

Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1544	47.73	9.76	57.49	65.76	-8.27	QP	P
2	0.1544	23.35	9.76	33.11	55.76	-22.65	AVG	P
3	0.1768	45.79	9.79	55.58	64.63	-9.05	QP	P
4	0.1768	26.18	9.79	35.97	54.63	-18.66	AVG	P
5	0.4783	32.48	9.77	42.25	56.37	-14.12	QP	P
6	0.4783	24.87	9.77	34.64	46.37	-11.73	AVG	P
7	1.8689	31.12	9.76	40.88	56.00	-15.12	QP	P
8	1.8689	21.57	9.76	31.33	46.00	-14.67	AVG	P
9	2.8725	31.71	9.78	41.49	56.00	-14.51	QP	P
10	2.8725	22.16	9.78	31.94	46.00	-14.06	AVG	P
11	7.6783	28.93	9.78	38.71	60.00	-21.29	QP	P
12	7.6783	19.23	9.78	29.01	50.00	-20.99	AVG	P

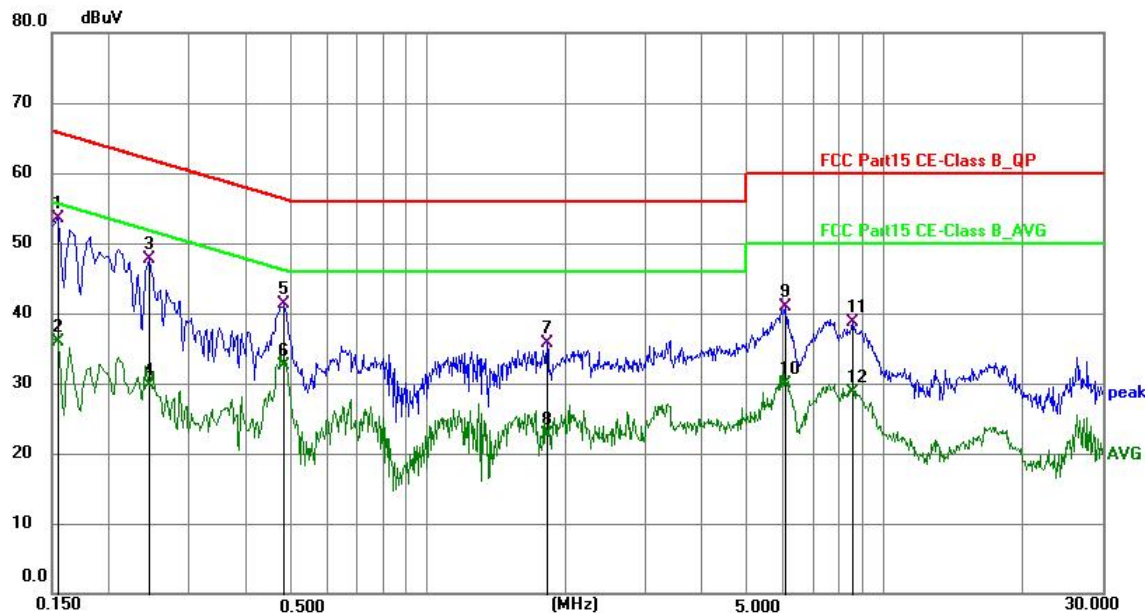
## Test Plots and Data of Conducted Emissions

Tested Mode: TM1

Test Voltage: AC 120V/60Hz

Test Power Line: Live

Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1544	43.91	9.68	53.59	65.76	-12.17	QP	P
2	0.1544	26.31	9.68	35.99	55.76	-19.77	AVG	P
3	0.2444	37.93	9.71	47.64	61.95	-14.31	QP	P
4	0.2444	20.07	9.71	29.78	51.95	-22.17	AVG	P
5	0.4828	31.58	9.70	41.28	56.29	-15.01	QP	P
6	0.4828	22.75	9.70	32.45	46.29	-13.84	AVG	P
7	1.8192	25.92	9.69	35.61	56.00	-20.39	QP	P
8	1.8192	13.05	9.69	22.74	46.00	-23.26	AVG	P
9	6.0674	31.17	9.72	40.89	60.00	-19.11	QP	P
10	6.0674	20.12	9.72	29.84	50.00	-20.16	AVG	P
11	8.5065	28.90	9.71	38.61	60.00	-21.39	QP	P
12	8.5065	18.95	9.71	28.66	50.00	-21.34	AVG	P



## 5. Radiated Emissions(Below 1GHz)

### 5.1 Standard and Limit

According to FCC Part 15.407(b)(9), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in FCC Part 15.209.

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

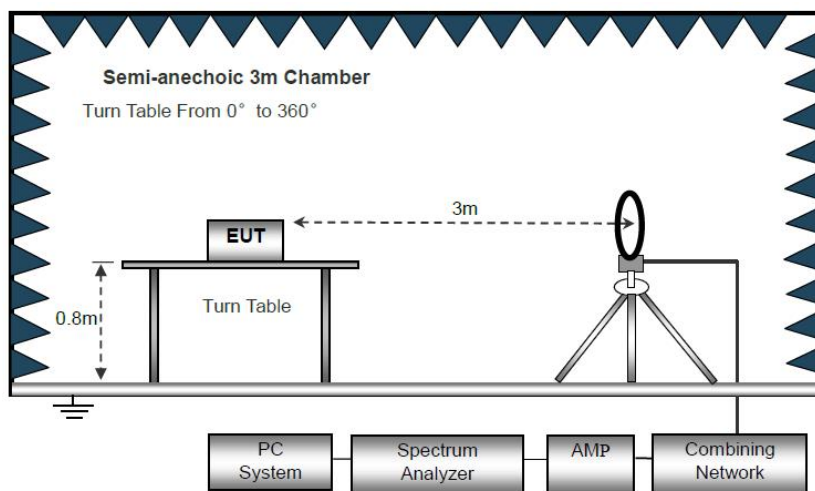
Frequency of Emission (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: The more stringent limit applies at transition frequencies.

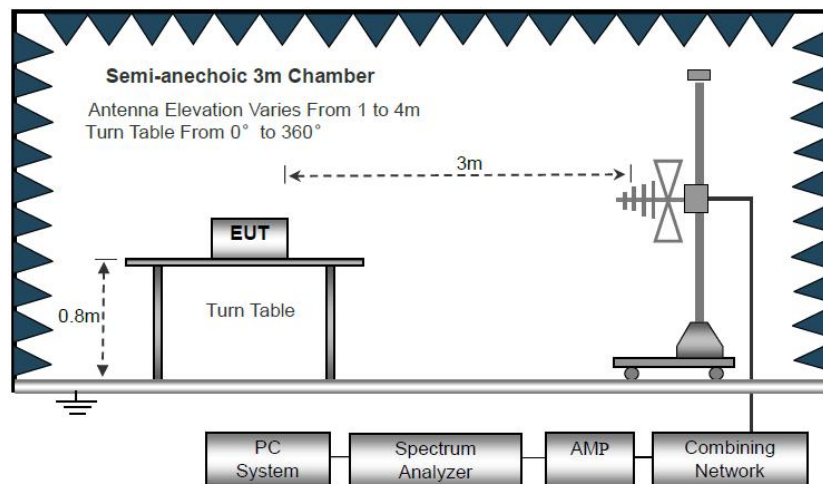
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 5.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz

- a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:  
 Span = wide enough to fully capture the emission being measured  
 RBW = 100 kHz  
 VBW  $\geq$  RBW, Sweep = auto  
 Detector function = peak  
 Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) For the actual test configuration, please refer to the related item - EUT test photos.

### 5.3 Test Data and Results

Both band1 and band4 all of the 802.11a, 802.11n and 802.11ac modes have been tested, the EUT complied with the FCC Part 15.209 standard limit for a wireless device, and with the worst case 802.11a\_5180MHz as below:

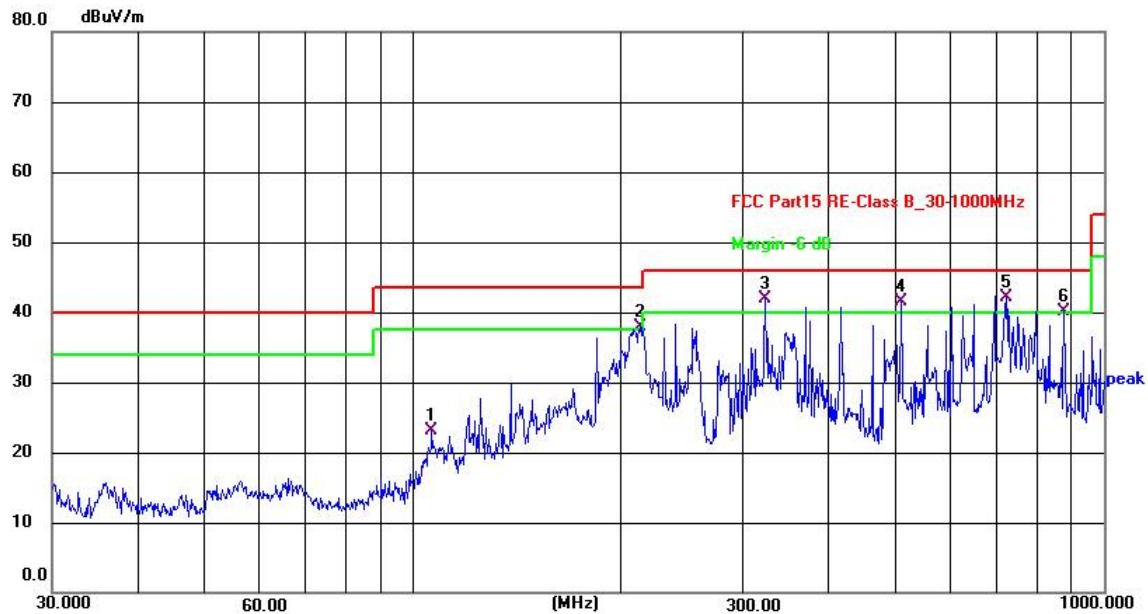
Remark: Level = Reading + Factor, Margin = Level - Limit

## Radiated Emission Test Data (30MHz to 1GHz)

Tested Mode: TM1

Test Antenna Polarization: Horizontal

Remark:



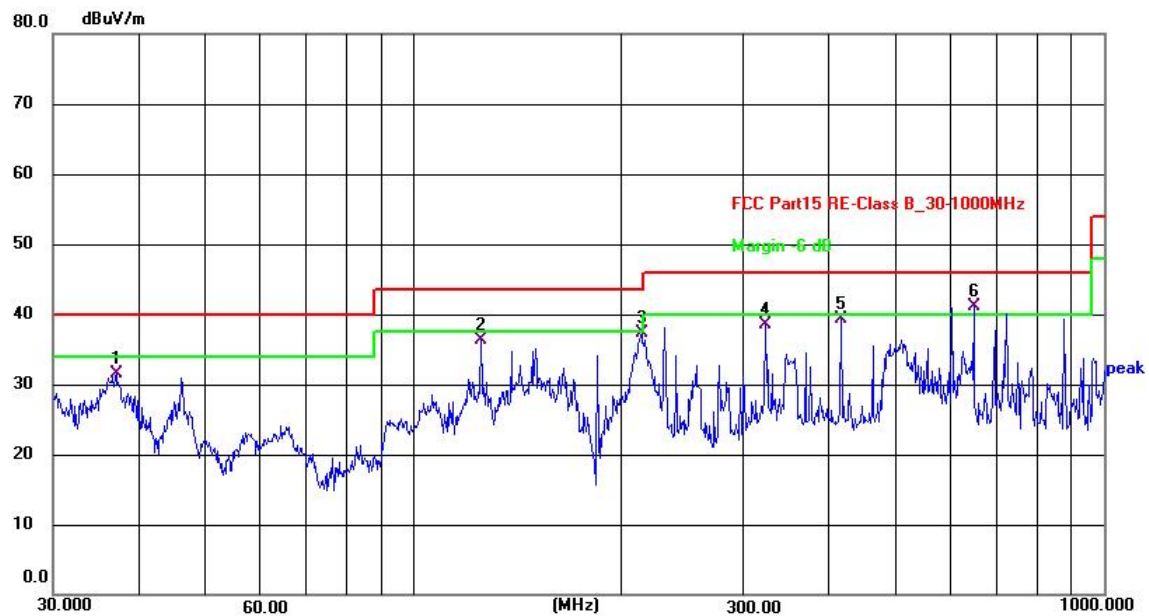
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	106.3850	42.52	-19.45	23.07	43.50	-20.43	QP
2 !	213.0150	57.27	-19.35	37.92	43.50	-5.58	QP
3 !	323.3201	57.90	-16.00	41.90	46.00	-4.10	QP
4 !	508.2581	54.82	-13.23	41.59	46.00	-4.41	QP
5 *	721.7258	52.03	-9.87	42.16	46.00	-3.84	QP
6 !	875.2470	48.13	-7.95	40.18	46.00	-5.82	QP

## Radiated Emission Test Data (30MHz to 1GHz)

Tested Mode: TM1

Test Antenna Polarization: Vertical

Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.0250	48.03	-16.59	31.44	40.00	-8.56	QP
2	125.0065	53.90	-17.64	36.26	43.50	-7.24	QP
3	213.7632	56.73	-19.33	37.40	43.50	-6.10	QP
4	323.3201	54.59	-16.00	38.59	46.00	-7.41	QP
5	416.1791	53.60	-14.37	39.23	46.00	-6.77	QP
6 *	647.3854	51.95	-10.75	41.20	46.00	-4.80	QP

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to 1GHz. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

## 6. Spurious Emissions(Above 1GHz)

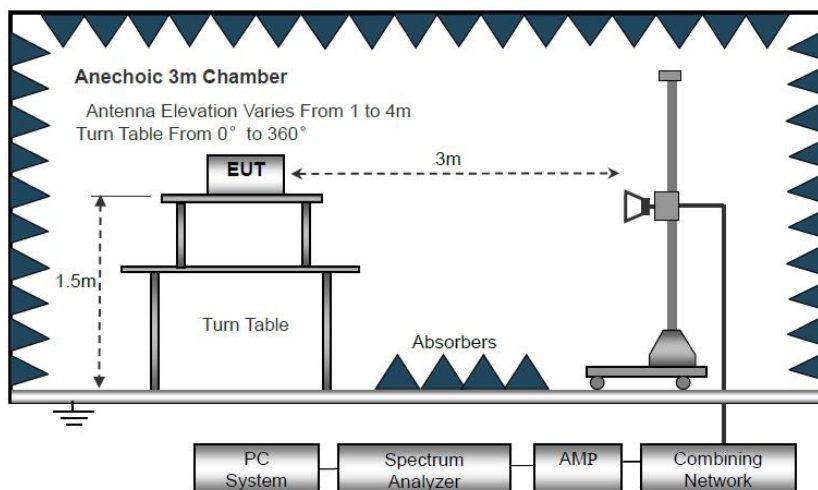
### 6.1 Standard and Limit

According to FCC Part 15.407(b), Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, 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 solely in the 5.725–5.850 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.
- (5) The provisions of § 15.205 apply to intentional radiators operating under this section.
- (6) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

### 6.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Above 1GHz

- a) The EUT is placed on a turntable, which is 1.5m above ground plane for test frequency range above 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured  
RBW = 1 MHz for  $f \geq 1\text{GHz}$   
VBW  $\geq$  RBW, Sweep = auto  
Detector function = peak  
Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) For the actual test configuration, please refer to the related item - EUT test photos.

### 6.3 Test Data and Results

Both band1 and band4 all of the 802.11a, 802.11n and 802.11ac modes have been tested, the EUT complied with the FCC Part 15.407 standard limit, and with the worst case 802.11a\_HT20, 802.11n\_HT20 and 802.11ac\_VHT20 as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

## UNII Band 1

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
802.11a_20MHz_Lowest Channel (5180MHz)							
10360	65.74	-6.22	59.52	68.2	-8.68	H	Peak
15540	53.75	-5.4	48.35	74	-25.65	H	Peak
10360	64.19	-6.22	57.97	68.2	-10.23	V	Peak
15540	55.97	-5.4	50.57	74	-23.43	V	Peak
802.11a_20MHz_Highest Channel (5240MHz)							
10480	64.33	-5.99	58.34	68.2	-9.86	H	Peak
15720	52.88	-5.53	47.35	74	-26.65	H	Peak
10480	61.07	-5.99	55.08	68.2	-13.12	V	Peak
15720	52.2	-5.53	46.67	74	-27.33	V	Peak
802.11n_20MHz_Lowest Channel (5180MHz)							
10360	65.21	-6.22	58.99	68.2	-9.21	H	Peak
15540	58.35	-5.4	52.95	74	-21.05	H	Peak
10360	64.85	-6.22	58.63	68.2	-9.57	V	Peak
15540	55.44	-5.4	50.04	74	-23.96	V	Peak
802.11n_20MHz_Highest Channel (5240MHz)							
10480	62.52	-5.99	56.53	68.2	-11.67	H	Peak
15720	51.18	-5.53	45.65	74	-28.35	H	Peak
10480	63.05	-5.99	57.06	68.2	-11.14	V	Peak
15720	51.69	-5.53	46.16	74	-27.84	V	Peak
802.11ac_20MHz_Lowest Channel (5180MHz)							
10360	64.97	-6.22	58.75	68.2	-9.45	H	Peak
15540	53.04	-5.4	47.64	74	-26.36	H	Peak
10360	65.9	-6.22	59.68	68.2	-8.52	V	Peak
15540	50.79	-5.4	45.39	74	-28.61	V	Peak
802.11ac_20MHz_Highest Channel (5240MHz)							
10480	66.86	-5.99	60.87	68.2	-7.33	H	Peak
15720	59.64	-5.53	54.11	74	-19.89	H	Peak
10480	61.93	-5.99	55.94	68.2	-12.26	V	Peak
15720	53.14	-5.53	47.61	74	-26.39	V	Peak

## UNII Band 4

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
802.11a_20MHz_Lowest Channel (5745MHz)							
11490	63.92	-4.34	59.58	74	-14.42	H	Peak
17235	59.83	-3.29	56.54	68.2	-11.66	H	Peak
11490	63.89	-4.34	59.55	74	-14.45	V	Peak
17235	58.41	-3.29	55.12	68.2	-13.08	V	Peak
802.11a_20MHz_Highest Channel (5825MHz)							
11650	60.29	-4.16	56.13	74	-17.87	H	Peak
17475	55.04	-2.53	52.51	68.2	-15.69	H	Peak
11650	61.74	-4.16	57.58	74	-16.42	V	Peak
17475	54.73	-2.53	52.2	68.2	-16	V	Peak
802.11n_20MHz_Lowest Channel (5745MHz)							
11490	58.42	-4.34	54.08	74	-19.92	H	Peak
17235	57.69	-3.29	54.4	68.2	-13.8	H	Peak
11490	60.6	-4.34	56.26	74	-17.74	V	Peak
17235	58.58	-3.29	55.29	68.2	-12.91	V	Peak
802.11n_20MHz_Highest Channel (5825MHz)							
11650	57.07	-4.16	52.91	74	-21.09	H	Peak
17475	55.82	-2.53	53.29	68.2	-14.91	H	Peak
11650	59.86	-4.16	55.7	74	-18.3	V	Peak
17475	60.33	-2.53	57.8	68.2	-10.4	V	Peak
802.11ac_20MHz_Lowest Channel (5745MHz)							
11490	63.65	-4.34	59.31	74	-14.69	H	Peak
17235	60.84	-3.29	57.55	68.2	-10.65	H	Peak
11490	63.03	-4.34	58.69	74	-15.31	V	Peak
17235	50.57	-3.29	47.28	68.2	-20.92	V	Peak
802.11ac_20MHz_Highest Channel (5825MHz)							
11650	64.8	-4.16	60.64	74	-13.36	H	Peak
17475	54.78	-2.53	52.25	68.2	-15.95	H	Peak
11650	57.75	-4.16	53.59	74	-20.41	V	Peak
17475	50.57	-2.53	48.04	68.2	-20.16	V	Peak

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 1GHz to the tenth harmonics, If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit, so there is no record.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, above 18GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.



## 7. Band-edge Emissions(Radiated)

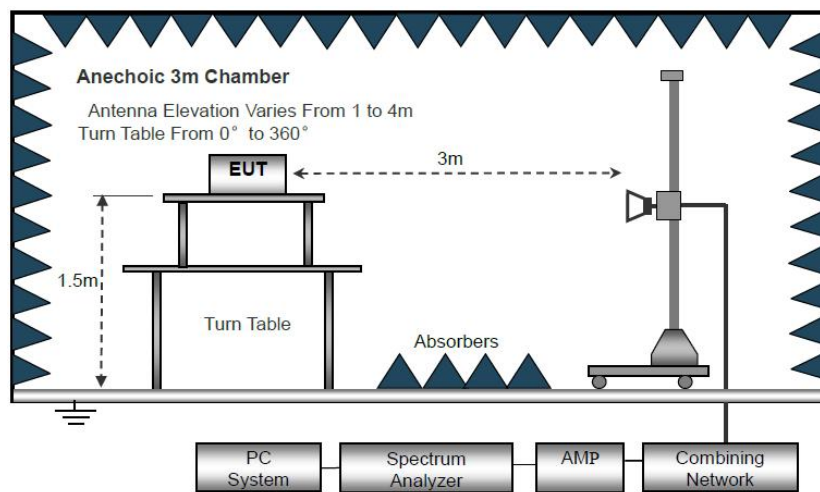
### 7.1 Standard and Limit

According to §15.407(b), Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, 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 solely in the 5.725–5.850 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.

### 7.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

### 7.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.407 standard limit, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

## UNII Band 1\_ 802.11a\_20MHz\_Lowest Channel (5180MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5150	64.22	-13.96	50.26	74	-23.74	H	Peak
5150	65.56	-13.96	51.6	74	-22.4	V	Peak

## UNII Band 1\_ 802.11a\_20MHz\_Highest Channel (5240MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5350	55.09	-13.26	41.83	74	-32.17	H	Peak
5460	52.37	-12.88	39.49	74	-34.51	H	Peak
5350	57.49	-13.26	44.23	74	-29.77	V	Peak
5460	50.58	-12.88	37.7	74	-36.3	V	Peak

## UNII Band 1\_802.11n\_40MHz\_Lowest Channel (5190MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5150	70.71	-13.96	56.75	74	-17.25	H	Peak
5150	55.74	-13.96	41.78	74	-32.22	V	Peak

## UNII Band 1\_ 802.11n\_40MHz\_Highest Channel (5230MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5350	57.06	-13.26	43.8	74	-30.2	H	Peak
5460	54.91	-12.88	42.03	74	-31.97	H	Peak
5350	58.31	-13.26	45.05	74	-28.95	V	Peak
5460	50.23	-12.88	37.35	74	-36.65	V	Peak

## UNII Band 1\_802.11ac\_80MHz\_5210MHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5150	66.06	-13.96	52.1	74	-21.9	H	Peak
5350	54.97	-13.26	41.71	74	-32.29	H	Peak
5460	55.32	-12.88	42.44	74	-31.56	H	Peak
5150	68.64	-13.96	54.68	74	-19.32	V	Peak
5350	51.36	-13.26	38.1	74	-35.9	V	Peak
5460	51.16	-12.88	38.28	74	-35.72	V	Peak

## UNII Band 4\_ 802.11a\_20MHz\_Lowest Channel (5745MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5650	55.35	-12.3	43.05	68.2	-25.15	H	Peak
5700	52.43	-12.16	40.27	105.6	-65.33	H	Peak
5720	71.75	-12.09	59.66	110.8	-51.14	H	Peak
5650	51.05	-12.3	38.75	68.2	-29.45	V	Peak
5700	55.9	-12.16	43.74	105.6	-61.86	V	Peak
5720	69.06	-12.09	56.97	110.8	-53.83	V	Peak

## UNII Band 4\_ 802.11a\_20MHz\_Highest Channel (5825MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5850	67.85	-11.72	56.13	122.2	-66.07	H	Peak
5875	57.79	-11.64	46.15	110.8	-64.65	H	Peak
5925	55.56	-11.5	44.06	68.2	-24.14	H	Peak
5850	72.11	-11.72	60.39	122.2	-61.81	V	Peak
5875	58.47	-11.64	46.83	110.8	-63.97	V	Peak
5925	52.55	-11.5	41.05	68.2	-27.15	V	Peak

## UNII Band 4\_802.11n\_40MHz\_Lowest Channel (5755MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5650	53.26	-12.3	40.96	68.2	-27.24	H	Peak
5700	51.12	-12.16	38.96	105.6	-66.64	H	Peak
5720	68.23	-12.09	56.14	110.8	-54.66	H	Peak
5650	50.61	-12.3	38.31	68.2	-29.89	V	Peak
5700	55.47	-12.16	43.31	105.6	-62.29	V	Peak
5720	66.87	-12.09	54.78	110.8	-56.02	V	Peak

## UNII Band 4\_ 802.11n\_40MHz\_Highest Channel (5795MHz)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5850	73.46	-11.72	61.74	122.2	-60.46	H	Peak
5875	56.36	-11.64	44.72	110.8	-66.08	H	Peak
5925	55.33	-11.5	43.83	68.2	-24.37	H	Peak
5850	66.06	-11.72	54.34	122.2	-67.86	V	Peak
5875	65.72	-11.64	54.08	110.8	-56.72	V	Peak
5925	53.61	-11.5	42.11	68.2	-26.09	V	Peak

## UNII Band 4\_802.11ac\_80MHz\_5775MHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	Peak
5650	55.59	-12.3	43.29	68.2	-24.91	H	Peak
5700	53.6	-12.16	41.44	105.6	-64.16	H	Peak
5720	69.05	-12.09	56.96	110.8	-53.84	H	Peak
5850	70.75	-11.72	59.03	122.2	-63.17	H	Peak
5875	57.08	-11.64	45.44	110.8	-65.36	H	Peak
5925	55.35	-11.5	43.85	68.2	-24.35	H	Peak
5650	50.76	-12.3	38.46	68.2	-29.74	V	Peak
5700	55.56	-12.16	43.4	105.6	-62.2	V	Peak
5720	74.37	-12.09	62.28	110.8	-48.52	V	Peak
5850	69.55	-11.72	57.83	122.2	-64.37	V	Peak
5875	62.69	-11.64	51.05	110.8	-59.75	V	Peak
5925	51.09	-11.5	39.59	68.2	-28.61	V	Peak

## 8. Maximum Conducted Output Power

### 8.1 Standard and Limit

According to 15.407(a): (1) For the band 5.15–5.25 GHz.

For an outdoor or 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band..

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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

(2) 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  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725–5.895 GHz: the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

### 8.2 Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- 1) A measurement instrument with an integrated channel bandwidth function may be used to automate the test process.
- 2) Set center of frequency = operating frequency.
- 3) Connect the EUT to the RF input of the spectrum analyzer via a low loss RF cable
- 4) Set the RBW = 1MHz, VBW = 3MHz, Detector = RMS, Sweep = Auto.
- 5) Set the SPAN to 40MHz/80MHz/160MHz for 20MHz/40MHz/80MHz emission bandwidth mode.
- 6) Measure the highest amplitude appearing on spectral display and mark the value.
- 7) Repeat the above procedures until all frequency measured was complete.



Test Setup Block Diagram

### 8.3 Test Data and Results

Please refer to the appendix for details.

## 9. Occupied Bandwidth

### 9.1 Standard and Limit

According to 15.407(a), Within the 5.250–5.350 GHz and 5.470–5.725 GHz bands the 26 dB bandwidth shall be tested.

According to 15.407(e), Within the 5.725–5.850 GHz and 5.850–5.895 GHz bands, the minimum 6 dB bandwidth of U–NII devices shall be at least 500 kHz.

### 9.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) 6dB: Set RBW = 100kHz, VBW  $\geq$  [3  $\times$  RBW], Sweep = Auto.  
26dB: Set RBW = approximately 1% of the emission bandwidth, VBW  $\geq$  [3  $\times$  RBW], Sweep = Auto.
- 4) Set a reference level on the measuring instrument equal to the highest peak value.
- 5) Measure the frequency difference of two frequencies that were attenuated 6dB or 26dB from the reference level. Record the frequency difference as the emission bandwidth.
- 6) Repeat the above procedures until all frequencies measured were complete.



Test Setup Block Diagram

### 9.3 Test Data and Results

Please refer to the appendix for details.

## 10. Maximum Power Spectral Density

### 10.1 Standard and Limit

According to 15.407(a):

(1) For the band 5.15–5.25 GHz.

For an outdoor or 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band..

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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

(2) 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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725–5.895 GHz: the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500–kHz band.

### 10.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 1MHz, VBW = 3MHz, Sweep = Auto, Detector = RMS.
- 4) Measure the highest amplitude appearing on spectral display and mark the value.
- 5) Repeat above procedures until all frequencies measured were complete.



Test Setup Block Diagram

### 10.3 Test Data and Results

Please refer to the appendix for details.

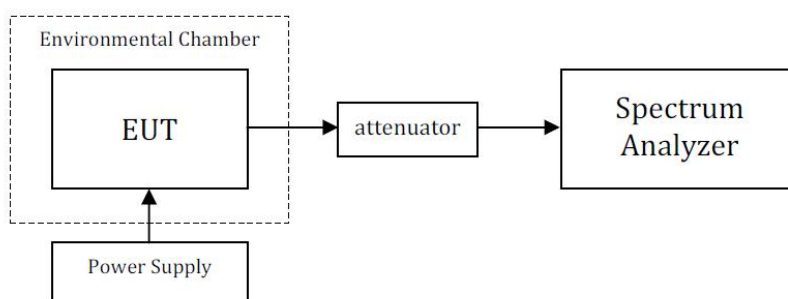
## 11. Frequency Stability

### 11.1 Standard and Limit

According to 15.407(g), Manufactures 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.

### 11.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2013 section 6.8.



Test Setup Block Diagram

### 11.3 Test Data and Results

Mode	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	5180	20	9.99	5179.959	5150 to 5250	Pass
			11.1	5179.960	5150 to 5250	Pass
			12.21	5179.961	5150 to 5250	Pass
		-30	11.1	5179.959	5150 to 5250	Pass
		-20	11.1	5179.96	5150 to 5250	Pass
		-10	11.1	5179.959	5150 to 5250	Pass
		0	11.1	5179.96	5150 to 5250	Pass
		10	11.1	5179.96	5150 to 5250	Pass
		30	11.1	5179.961	5150 to 5250	Pass
		40	11.1	5179.961	5150 to 5250	Pass
		50	11.1	5179.962	5150 to 5250	Pass
	5200	20	9.99	5199.918	5150 to 5250	Pass
			11.1	5199.920	5150 to 5250	Pass
			12.21	5199.918	5150 to 5250	Pass
		-30	11.1	5199.919	5150 to 5250	Pass
		-20	11.1	5199.919	5150 to 5250	Pass



		-10	11.1	5199.917	5150 to 5250	Pass
		0	11.1	5199.916	5150 to 5250	Pass
		10	11.1	5199.918	5150 to 5250	Pass
		30	11.1	5199.917	5150 to 5250	Pass
		40	11.1	5199.919	5150 to 5250	Pass
		50	11.1	5199.916	5150 to 5250	Pass
	5240	20	9.99	5239.937	5150 to 5250	Pass
			11.1	5239.941	5150 to 5250	Pass
			12.21	5239.938	5150 to 5250	Pass
		-30	11.1	5239.936	5150 to 5250	Pass
		-20	11.1	5239.938	5150 to 5250	Pass
		-10	11.1	5239.938	5150 to 5250	Pass
		0	11.1	5239.938	5150 to 5250	Pass
		10	11.1	5239.941	5150 to 5250	Pass
		30	11.1	5239.939	5150 to 5250	Pass
		40	11.1	5239.941	5150 to 5250	Pass
		50	11.1	5239.941	5150 to 5250	Pass
	5745	20	9.99	5744.918	5725 to 5850	Pass
			11.1	5744.919	5725 to 5850	Pass
			12.21	5744.918	5725 to 5850	Pass
		-30	11.1	5744.919	5725 to 5850	Pass
		-20	11.1	5744.918	5725 to 5850	Pass
		-10	11.1	5744.917	5725 to 5850	Pass
		0	11.1	5744.919	5725 to 5850	Pass
		10	11.1	5744.917	5725 to 5850	Pass
		30	11.1	5744.919	5725 to 5850	Pass
		40	11.1	5744.918	5725 to 5850	Pass
		50	11.1	5744.917	5725 to 5850	Pass
	5785	20	9.99	5784.936	5725 to 5850	Pass
			11.1	5784.939	5725 to 5850	Pass
			12.21	5784.937	5725 to 5850	Pass
		-30	11.1	5784.938	5725 to 5850	Pass
		-20	11.1	5784.939	5725 to 5850	Pass
		-10	11.1	5784.936	5725 to 5850	Pass
		0	11.1	5784.936	5725 to 5850	Pass
		10	11.1	5784.937	5725 to 5850	Pass
		30	11.1	5784.937	5725 to 5850	Pass
		40	11.1	5784.939	5725 to 5850	Pass
		50	11.1	5784.937	5725 to 5850	Pass
	5825	20	9.99	5824.917	5725 to 5850	Pass
			11.1	5824.915	5725 to 5850	Pass
			12.21	5824.917	5725 to 5850	Pass
		-30	11.1	5824.916	5725 to 5850	Pass

		-20	11.1	5824.917	5725 to 5850	Pass
		-10	11.1	5824.916	5725 to 5850	Pass
		0	11.1	5824.918	5725 to 5850	Pass
		10	11.1	5824.916	5725 to 5850	Pass
		30	11.1	5824.916	5725 to 5850	Pass
		40	11.1	5824.917	5725 to 5850	Pass
		50	11.1	5824.916	5725 to 5850	Pass

**\*\*\*\*\* END OF REPORT \*\*\*\*\***