

TEST REPORT

Applicant: Quanzhou Skydroid Technology Co., Ltd.

Address of Applicant: 2nd Floor, Building A, Yucheng Base, Fengze District, Quanzhou City, Fujian, China

Manufacturer/ Factory: Quanzhou Skydroid Technology Co., Ltd.

Address of Manufacturer/ Factory: 2nd Floor, Building A, Yucheng Base, Fengze District, Quanzhou City, Fujian, China

Equipment Under Test (EUT)

Product Name: H16 remote control

Model No.: H16, H16PRO

Trade Mark: SKYDROID

FCC ID: 2ATGZQZYH16

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: October 21, 2020

Date of Test: October 22, 2020-November 03, 2020

Date of report issue: November 04, 2020

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

A circular stamp with the text "GLOBAL TECHNOLOGY SERVICES CO., LTD." around the perimeter and "GTS" in the center. Overlaid on the stamp is a handwritten signature in black ink, which appears to be "Robinson Lo".

Robinson Lo

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	November 04, 2020	Original

Prepared By:

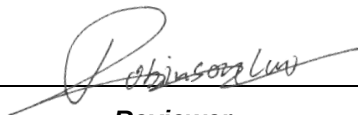


Date:

November 04, 2020

Project Engineer

Check By:



Date:

November 04, 2020

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	PASS
Peak Transmit Power	15.407(a)(1)	PASS
Power Spectral Density	15.407(a)(1)	PASS
Undesirable Emission	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.407(b)(1)	PASS
Frequency Stability	15.407(g)	PASS

Remark:

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 3.8039\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 3.9679\text{dB}$	(1)
Radiated Emission	1GHz ~ 40GHz	$\pm 4.29\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.44\text{dB}$	(1)

Note (1): The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

Remark: Test according to ANSI C63.10:2013 and ANSI C63.4:2014

5 General Information

5.1 General Description of EUT

Product Name:	H16 remote control			
Model No.:	H16, H16PRO			
Test Model No:	H16			
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is model name for commercial purpose.				
S/N:	H16V1			
Hardware version:	V1.0			
Software version:	V1.0			
Test sample(s) ID:	GTS202010000110-1			
Sample(s) Status:	Engineer sample			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	U-NII Band I	IEEE 802.11a/ n/ac 20MHz	5180-5240	4
		IEEE 802.11n/ac 40MHz	5190-5230	2
		IEEE 802.11ac 80MHz	5210	1
Modulation technology:	OFDM			
Antenna Type:	Integral Antenna			
Antenna gain:	0dBi			
Power supply:	ADAPTOR MODEL:KXS-012 INPUT: 110V-240V~50/60Hz 0.5A max OUTPUT: 3.6V-6V 3A or 6V-9V 32A or 9V-12V 31.5A Or DC 3.7V Battery			

Channel list for 802.11a/n/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

Channel list for 802.11n(HT40)/ac(HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz				

Channel list for 802.11ac(HT80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz						

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation..
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a/n/ac(HT20)	6/6.5 Mbps
802.11n/ac(HT40)	13.5 Mbps
802.11ac(HT80)	29.3 Mbps

5.3 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383.

- **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, sBaoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units

None

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<i>15.203 requirement:</i> <i>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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i>	
E.U.T Antenna:	
<i>The antennas are integral antenna, the best case gain of the antennas are 0dBi, reference to the appendix II for details</i>	

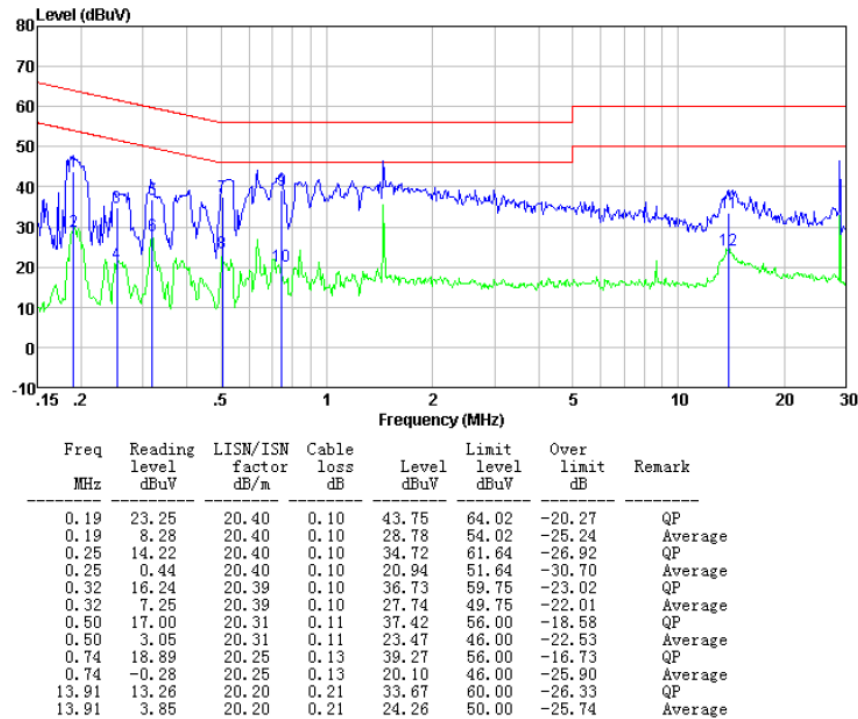
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz					
Limit:	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 procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.					
Test setup:	Reference Plane Test table/Insulation plane <i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test results:	Pass					

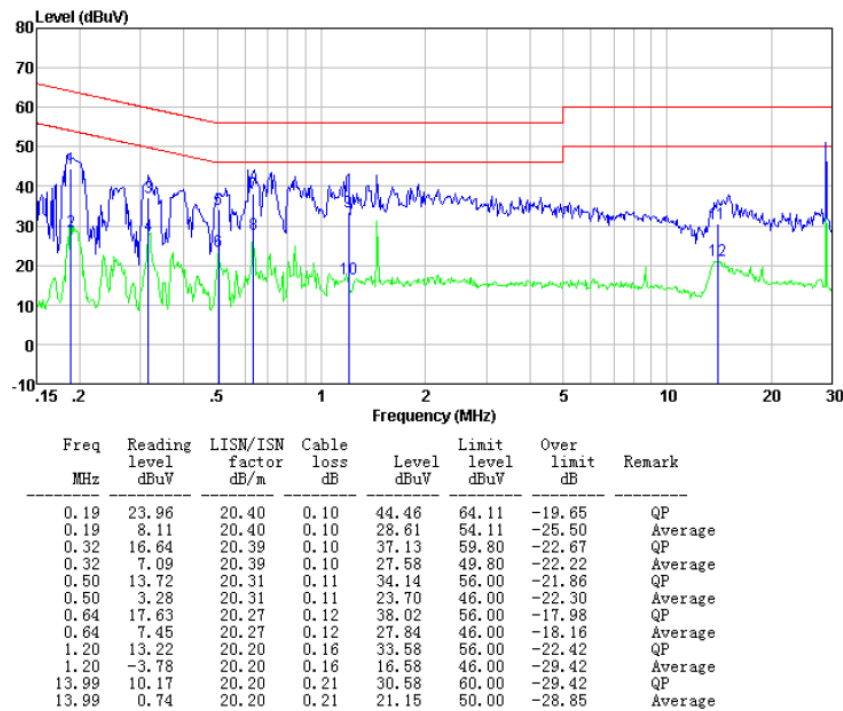
Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

Measurement data:

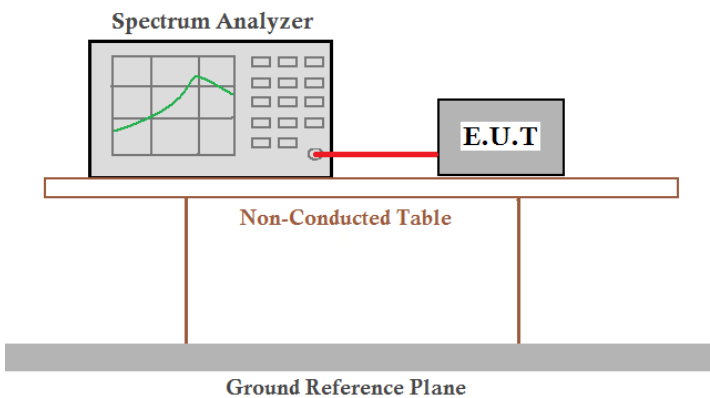
Line:



Neutral:

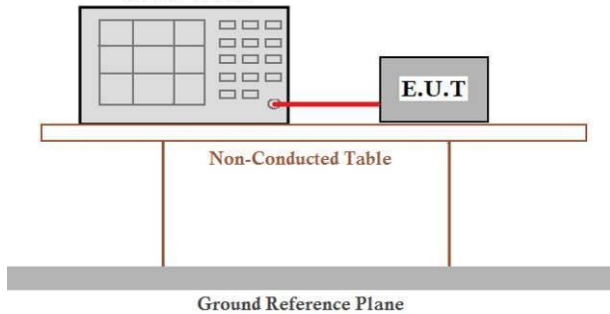


7.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve, is connected to an E.U.T. (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a 'Non-Conducted Table', which is a rectangular platform supported by two vertical legs. Below this table is a 'Ground Reference Plane', represented by a thick grey horizontal bar.
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

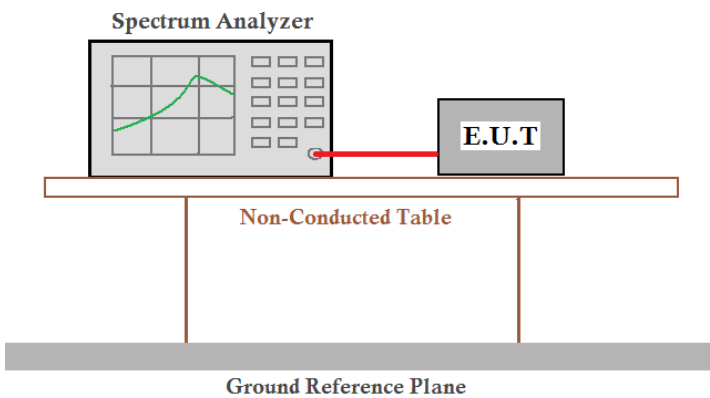
Measurement Data: The detailed test data see Appendix for 5G

7.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407		
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01		
Limit:	Frequency band (MHz)	Limit	
	5150-5250	≤1W(30dBm) for master device	
		≤250mW(23.98dBm) for client device	
	Remark: *Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.		
Test setup:	Power Meter  Non-Conducted Table Ground Reference Plane		
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data: The detailed test data see Appendix for 5G

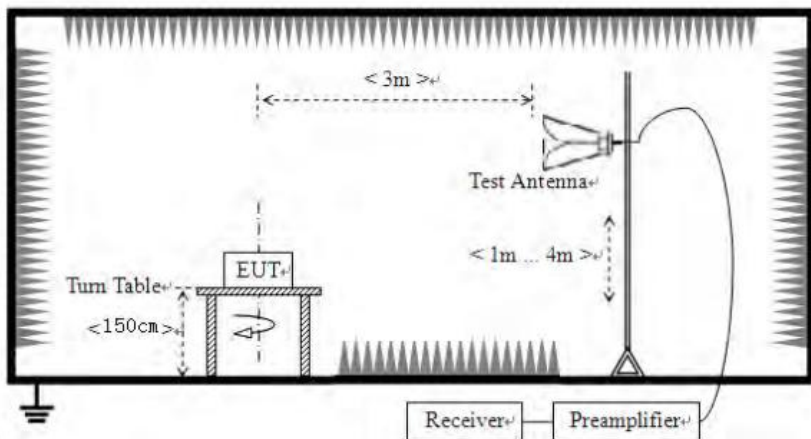
7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	
Limit:	Frequency band (MHz)	Limit
	5150-5250	≤17dBm in 1MHz for master device
		≤11dBm in 1MHz for client device
	Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.	
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.	
Test Instruments:	Refer to section 5.10 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

Measurement Data: The detailed test data see Appendix for 5G

7.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205					
Test Method:	ANSI C63.10:2013					
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Receiver setup:	Frequency	Detector	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		AV	1MHz	3MHz	Average Value	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz		40.0		Quasi-peak Value	
	88MHz-216MHz		43.5		Quasi-peak Value	
	216MHz-960MHz		46.0		Quasi-peak Value	
	960MHz-1GHz		54.0		Quasi-peak Value	
	Above 1GHz		54.0		Average Value	
			68.2		Peak Value	
	Undesirable emission 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 EIRP 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 EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.					
	(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 EIRP of -27 dBm/MHz.					
	Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.				
		b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.				
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.						
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.						
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.						
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not						

	have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test setup:	For radiated emissions above 1GHz 
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
4. According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:
 $E[dBuV/m] = EIRP[dBm] + 95.2;$
For example, if $EIRP = -27dBm$
 $E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.$

Measurement Data:

802.11a(HT20)					PK			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	42.91	32.07	8.99	37.49	46.48	68.2	-21.72	Horizontal
5350.00	43.56	31.75	9.29	37.2	47.4	68.2	-20.8	Horizontal
5150.00	45.02	32.07	8.99	37.49	48.59	68.2	-19.61	Vertical
5350.00	43.06	31.75	9.29	37.2	46.9	68.2	-21.3	Vertical

802.11a(HT20)					AV			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	32.01	32.07	8.99	37.49	35.58	54	-18.42	Horizontal
5350.00	31.47	31.75	9.29	37.2	35.31	54	-18.69	Horizontal
5150.00	35.86	32.07	8.99	37.49	39.43	54	-14.57	Vertical
5350.00	34.80	31.75	9.29	37.2	38.64	54	-15.36	Vertical

802.11n(HT20)					PK			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	43.17	32.07	8.99	37.49	46.74	68.2	-21.46	Horizontal
5350.00	45.91	31.75	9.29	37.2	49.75	68.2	-18.45	Horizontal
5150.00	43.38	32.07	8.99	37.49	46.95	68.2	-21.25	Vertical
5350.00	45.32	31.75	9.29	37.2	49.16	68.2	-19.04	Vertical

802.11n(HT20)					AV			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	35.72	32.07	8.99	37.49	39.29	54	-14.71	Horizontal
5350.00	36.32	31.75	9.29	37.2	40.16	54	-13.84	Horizontal
5150.00	36.34	32.07	8.99	37.49	39.91	54	-14.09	Vertical
5350.00	33.16	31.75	9.29	37.2	37	54	-17	Vertical

802.11ac(HT20)					PK			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	43.43	32.07	8.99	37.49	47	68.2	-21.2	Horizontal
5350.00	42.09	31.75	9.29	37.2	45.93	68.2	-22.27	Horizontal
5150.00	43.27	32.07	8.99	37.49	46.84	68.2	-21.36	Vertical
5350.00	42.70	31.75	9.29	37.2	46.54	68.2	-21.66	Vertical

802.11ac(HT20)					AV			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	33.53	32.07	8.99	37.49	37.1	54	-16.9	Horizontal
5350.00	33.35	31.75	9.29	37.2	37.19	54	-16.81	Horizontal
5150.00	35.18	32.07	8.99	37.49	38.75	54	-15.25	Vertical
5350.00	31.69	31.75	9.29	37.2	35.53	54	-18.47	Vertical

802.11n(HT40)					PK			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	44.20	32.07	8.99	37.49	47.77	68.2	-20.43	Horizontal
5350.00	42.42	31.75	9.29	37.2	46.26	68.2	-21.94	Horizontal
5150.00	42.86	32.07	8.99	37.49	46.43	68.2	-21.77	Vertical
5350.00	45.93	31.75	9.29	37.2	49.77	68.2	-18.43	Vertical

802.11n(HT40)					AV			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	33.87	32.07	8.99	37.49	37.44	54	-16.56	Horizontal
5350.00	32.37	31.75	9.29	37.2	36.21	54	-17.79	Horizontal
5150.00	31.39	32.07	8.99	37.49	34.96	54	-19.04	Vertical
5350.00	34.40	31.75	9.29	37.2	38.24	54	-15.76	Vertical

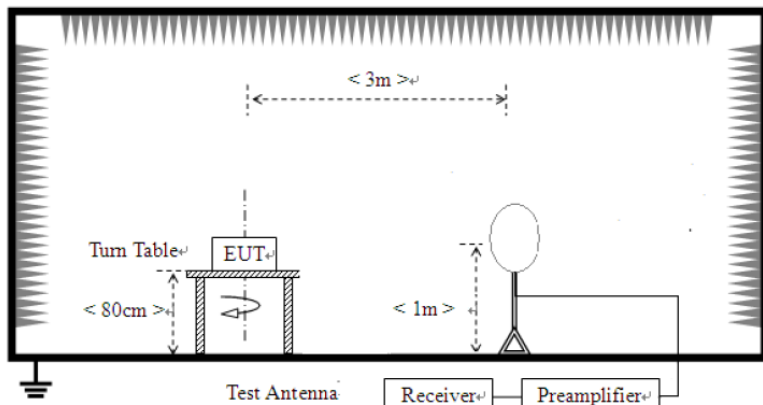
802.11ac(HT40)					PK			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	44.97	32.07	8.99	37.49	48.54	68.2	-19.66	Horizontal
5350.00	42.23	31.75	9.29	37.2	46.07	68.2	-22.13	Horizontal
5150.00	45.36	32.07	8.99	37.49	48.93	68.2	-19.27	Vertical
5350.00	41.30	31.75	9.29	37.2	45.14	68.2	-23.06	Vertical

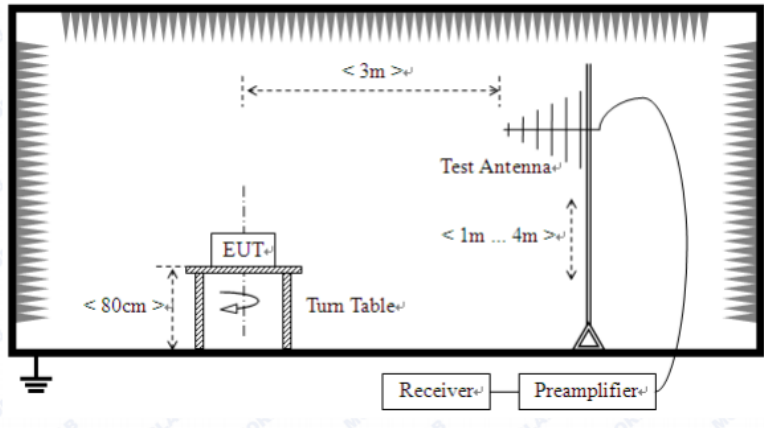
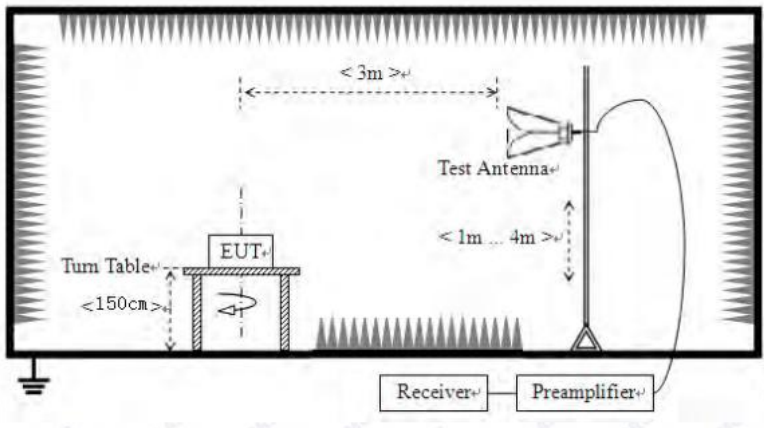
802.11ac(HT40)					AV			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	32.87	32.07	8.99	37.49	36.44	54	-17.56	Horizontal
5350.00	36.50	31.75	9.29	37.2	40.34	54	-13.66	Horizontal
5150.00	36.42	32.07	8.99	37.49	39.99	54	-14.01	Vertical
5350.00	31.30	31.75	9.29	37.2	35.14	54	-18.86	Vertical

802.11ac(HT80)					PK			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	44.08	32.07	8.99	37.49	47.65	68.2	-20.55	Horizontal
5350.00	45.05	31.75	9.29	37.2	48.89	68.2	-19.31	Horizontal
5150.00	44.36	32.07	8.99	37.49	47.93	68.2	-20.27	Vertical
5350.00	43.77	31.75	9.29	37.2	47.61	68.2	-20.59	Vertical

802.11ac(HT80)					AV			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5150.00	32.37	32.07	8.99	37.49	35.94	54	-18.06	Horizontal
5350.00	36.42	31.75	9.29	37.2	40.26	54	-13.74	Horizontal
5150.00	33.71	32.07	8.99	37.49	37.28	54	-16.72	Vertical
5350.00	35.83	31.75	9.29	37.2	39.67	54	-14.33	Vertical

7.7 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 40GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:					
	Frequency		Limit (uV/m)	Value	Measurement Distance
	0.009MHz-0.490MHz		2400/F(KHz)	QP	300m
	0.490MHz-1.705MHz		24000/F(KHz)	QP	30m
	1.705MHz-30MHz		30	QP	30m
	30MHz-88MHz		100	QP	3m
	88MHz-216MHz		150	QP	
	216MHz-960MHz		200	QP	
	960MHz-1GHz		500	QP	
	Above 1GHz		500	Average	
			5000	Peak	
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
Test setup:	For radiated emissions from 30MHz to1GHz				

	 For radiated emissions above 1GHz 
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.2 for details
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar
Test results:	Pass

Remarks:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

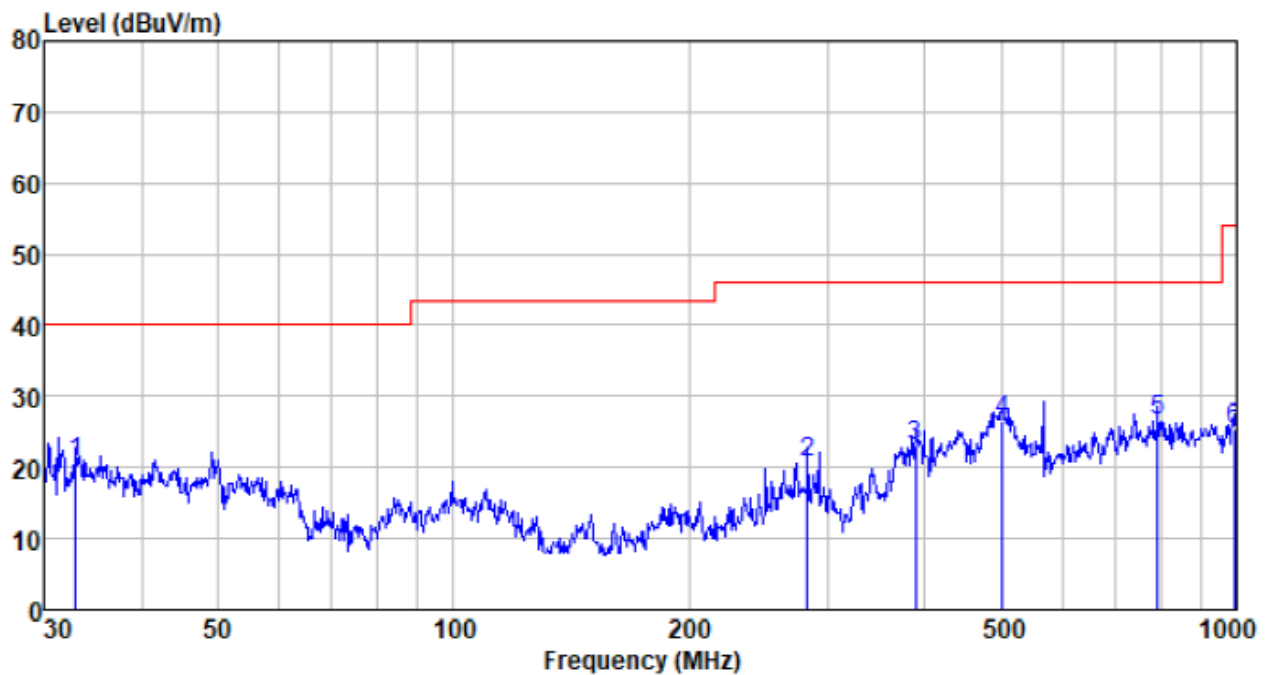
Measurement Data:

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

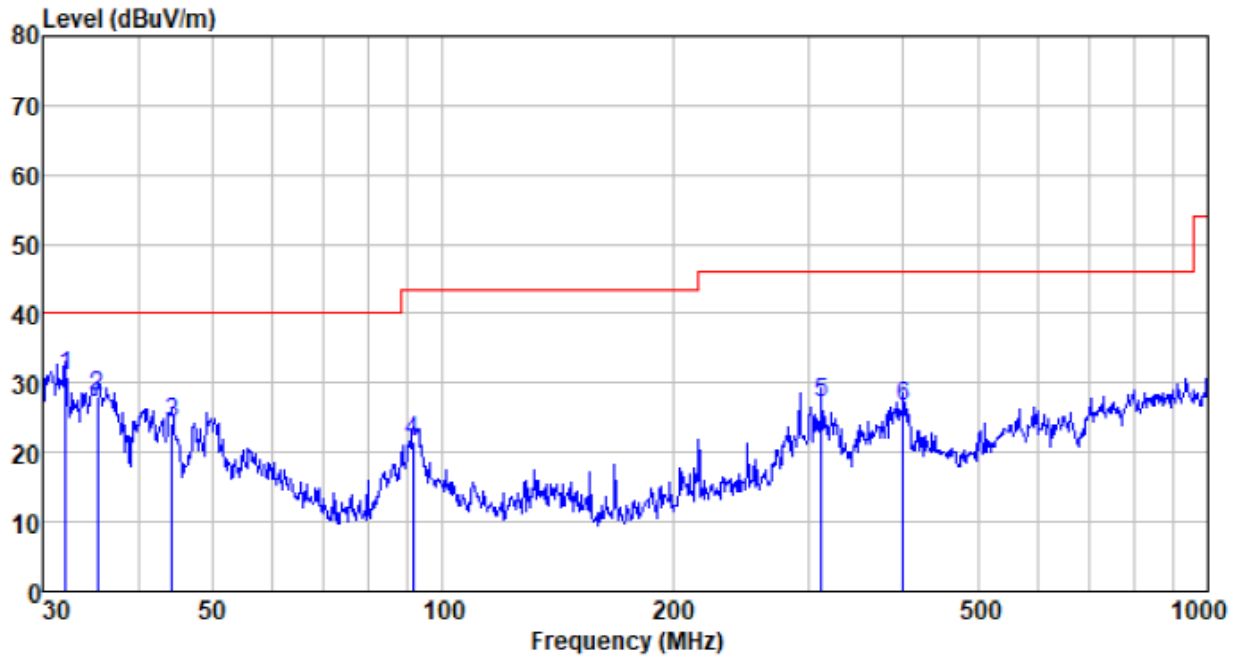
30MHz~ 1GHz

Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
32.979	44.09	11.26	0.59	35.22	20.72	40.00	-19.28	QP
282.985	42.64	13.13	2.28	37.41	20.64	46.00	-25.36	QP
389.355	42.58	15.16	2.80	37.51	23.03	46.00	-22.97	QP
502.940	43.31	17.35	3.32	37.51	26.47	46.00	-19.53	QP
793.396	38.61	21.28	4.43	37.62	26.70	46.00	-19.30	QP
993.011	34.96	22.68	5.19	37.52	25.31	54.00	-28.69	QP

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
32.179	54.29	11.25	0.58	35.16	30.96	40.00	-9.04	QP
35.375	51.51	11.39	0.61	35.38	28.13	40.00	-11.87	QP
44.275	47.10	12.25	0.71	35.90	24.16	40.00	-15.84	QP
91.495	46.24	10.90	1.12	36.65	21.61	43.50	-21.89	QP
312.179	48.29	13.85	2.42	37.43	27.13	46.00	-18.87	QP
400.432	46.02	15.34	2.85	37.52	26.69	46.00	-19.31	QP

Above 1GHz:

802.11a(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	35.46	39.67	14.62	32.65	57.1	74	-16.9	Vertical
15540.00	36.60	38.6	17.66	34.46	58.4	74	-15.6	Vertical
10360.00	33.69	39.67	14.62	32.65	55.33	74	-18.67	Horizontal
15540.00	35.73	38.6	17.66	34.46	57.53	74	-16.47	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	25.45	39.67	14.62	32.65	47.09	54	-6.91	Vertical
15540.00	23.52	38.6	17.66	34.46	45.32	54	-8.68	Vertical
10360.00	25.24	39.67	14.62	32.65	46.88	54	-7.12	Horizontal
15540.00	23.35	38.6	17.66	34.46	45.15	54	-8.85	Horizontal

802.11a(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	34.41	39.75	14.63	32.71	56.08	74	-17.92	Vertical
15600.00	35.75	38.33	17.67	34.17	57.58	74	-16.42	Vertical
10400.00	33.67	39.75	14.63	32.71	55.34	74	-18.66	Horizontal
15600.00	32.01	38.33	17.67	34.17	53.84	74	-20.16	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	25.81	39.75	14.63	32.71	47.48	54	-6.52	Vertical
15600.00	24.48	38.33	17.67	34.17	46.31	54	-7.69	Vertical
10400.00	24.97	39.75	14.63	32.71	46.64	54	-7.36	Horizontal
15600.00	25.54	38.33	17.67	34.17	47.37	54	-6.63	Horizontal

802.11a(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	34.73	39.82	14.68	32.86	56.37	74	-17.63	Vertical
15720.00	35.58	38.09	17.73	33.66	57.74	74	-16.26	Vertical
10480.00	36.30	39.82	14.68	32.86	57.94	74	-16.06	Horizontal
15720.00	36.25	38.09	17.73	33.66	58.41	74	-15.59	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	23.38	39.82	14.68	32.86	45.02	54	-8.98	Vertical
15720.00	24.05	38.09	17.73	33.66	46.21	54	-7.79	Vertical
10480.00	23.28	39.82	14.68	32.86	44.92	54	-9.08	Horizontal
15720.00	25.01	38.09	17.73	33.66	47.17	54	-6.83	Horizontal

802.11n(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	36.81	39.67	14.62	32.65	58.45	74	-15.55	Vertical
15540.00	35.79	38.6	17.66	34.46	57.59	74	-16.41	Vertical
10360.00	34.78	39.67	14.62	32.65	56.42	74	-17.58	Horizontal
15540.00	32.48	38.6	17.66	34.46	54.28	74	-19.72	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	24.71	39.67	14.62	32.65	46.35	54	-7.65	Vertical
15540.00	21.73	38.6	17.66	34.46	43.53	54	-10.47	Vertical
10360.00	21.16	39.67	14.62	32.65	42.8	54	-11.2	Horizontal
15540.00	24.62	38.6	17.66	34.46	46.42	54	-7.58	Horizontal

802.11n(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	32.95	39.75	14.63	32.71	54.62	74	-19.38	Vertical
15600.00	33.35	38.33	17.67	34.17	55.18	74	-18.82	Vertical
10400.00	33.02	39.75	14.63	32.71	54.69	74	-19.31	Horizontal
15600.00	35.40	38.33	17.67	34.17	57.23	74	-16.77	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	24.08	39.75	14.63	32.71	45.75	54	-8.25	Vertical
15600.00	22.51	38.33	17.67	34.17	44.34	54	-9.66	Vertical
10400.00	22.43	39.75	14.63	32.71	44.1	54	-9.9	Horizontal
15600.00	22.25	38.33	17.67	34.17	44.08	54	-9.92	Horizontal

802.11n(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	33.50	39.82	14.68	32.86	55.14	74	-18.86	Vertical
15720.00	35.98	38.09	17.73	33.66	58.14	74	-15.86	Vertical
10480.00	34.61	39.82	14.68	32.86	56.25	74	-17.75	Horizontal
15720.00	33.33	38.09	17.73	33.66	55.49	74	-18.51	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	21.74	39.82	14.68	32.86	43.38	54	-10.62	Vertical
15720.00	25.79	38.09	17.73	33.66	47.95	54	-6.05	Vertical
10480.00	25.94	39.82	14.68	32.86	47.58	54	-6.42	Horizontal
15720.00	21.98	38.09	17.73	33.66	44.14	54	-9.86	Horizontal

802.11ac(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	33.77	39.67	14.62	32.65	55.41	74	-18.59	Vertical
15540.00	33.32	38.6	17.66	34.46	55.12	74	-18.88	Vertical
10360.00	36.89	39.67	14.62	32.65	58.53	74	-15.47	Horizontal
15540.00	34.76	38.6	17.66	34.46	56.56	74	-17.44	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	21.95	39.67	14.62	32.65	43.59	54	-10.41	Vertical
15540.00	25.67	38.6	17.66	34.46	47.47	54	-6.53	Vertical
10360.00	22.75	39.67	14.62	32.65	44.39	54	-9.61	Horizontal
15540.00	23.47	38.6	17.66	34.46	45.27	54	-8.73	Horizontal

802.11ac(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	33.31	39.75	14.63	32.71	54.98	74	-19.02	Vertical
15600.00	36.74	38.33	17.67	34.17	58.57	74	-15.43	Vertical
10400.00	33.74	39.75	14.63	32.71	55.41	74	-18.59	Horizontal
15600.00	33.62	38.33	17.67	34.17	55.45	74	-18.55	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	23.06	39.75	14.63	32.71	44.73	54	-9.27	Vertical
15600.00	25.91	38.33	17.67	34.17	47.74	54	-6.26	Vertical
10400.00	25.78	39.75	14.63	32.71	47.45	54	-6.55	Horizontal
15600.00	21.71	38.33	17.67	34.17	43.54	54	-10.46	Horizontal

802.11ac(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	34.83	39.82	14.68	32.86	56.47	74	-17.53	Vertical
15720.00	36.49	38.09	17.73	33.66	58.65	74	-15.35	Vertical
10480.00	33.00	39.82	14.68	32.86	54.64	74	-19.36	Horizontal
15720.00	36.70	38.09	17.73	33.66	58.86	74	-15.14	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	24.22	39.82	14.68	32.86	45.86	54	-8.14	Vertical
15720.00	22.85	38.09	17.73	33.66	45.01	54	-8.99	Vertical
10480.00	21.02	39.82	14.68	32.86	42.66	54	-11.34	Horizontal
15720.00	23.81	38.09	17.73	33.66	45.97	54	-8.03	Horizontal

802.11nHT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	34.44	39.71	14.63	32.68	56.1	74	-17.9	Vertical
15570.00	32.97	38.46	17.67	34.32	54.78	74	-19.22	Vertical
10380.00	35.36	39.71	14.63	32.68	57.02	74	-16.98	Horizontal
15570.00	33.24	38.46	17.67	34.32	55.05	74	-18.95	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	22.44	39.71	14.63	32.68	44.1	54	-9.9	Vertical
15570.00	23.87	38.46	17.67	34.32	45.68	54	-8.32	Vertical
10380.00	22.53	39.71	14.63	32.68	44.19	54	-9.81	Horizontal
15570.00	20.85	38.46	17.67	34.32	42.66	54	-11.34	Horizontal

802.11n(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	35.47	39.75	14.65	32.74	57.13	74	-16.87	Vertical
15690.00	34.78	38.33	17.69	34.03	56.77	74	-17.23	Vertical
10460.00	34.23	39.75	14.65	32.74	55.89	74	-18.11	Horizontal
15690.00	32.49	38.33	17.69	34.03	54.48	74	-19.52	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	25.32	39.75	14.65	32.74	46.98	54	-7.02	Vertical
15690.00	25.45	38.33	17.69	34.03	47.44	54	-6.56	Vertical
10460.00	24.67	39.75	14.65	32.74	46.33	54	-7.67	Horizontal
15690.00	25.24	38.33	17.69	34.03	47.23	54	-6.77	Horizontal

802.11acHT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	35.86	39.71	14.63	32.68	57.52	74	-16.48	Vertical
15570.00	32.83	38.46	17.67	34.32	54.64	74	-19.36	Vertical
10380.00	36.17	39.71	14.63	32.68	57.83	74	-16.17	Horizontal
15570.00	36.89	38.46	17.67	34.32	58.7	74	-15.3	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	22.30	39.71	14.63	32.68	43.96	54	-10.04	Vertical
15570.00	23.25	38.46	17.67	34.32	45.06	54	-8.94	Vertical
10380.00	24.26	39.71	14.63	32.68	45.92	54	-8.08	Horizontal
15570.00	23.99	38.46	17.67	34.32	45.8	54	-8.2	Horizontal

802.11ac(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	35.78	39.75	14.65	32.74	57.44	74	-16.56	Vertical
15690.00	34.91	38.33	17.69	34.03	56.9	74	-17.1	Vertical
10460.00	35.98	39.75	14.65	32.74	57.64	74	-16.36	Horizontal
15690.00	35.17	38.33	17.69	34.03	57.16	74	-16.84	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	25.46	39.75	14.65	32.74	47.12	54	-6.88	Vertical
15690.00	22.49	38.33	17.69	34.03	44.48	54	-9.52	Vertical
10460.00	25.65	39.75	14.65	32.74	47.31	54	-6.69	Horizontal
15690.00	24.79	38.33	17.69	34.03	46.78	54	-7.22	Horizontal

802.11ac(HT80) 5210MHz

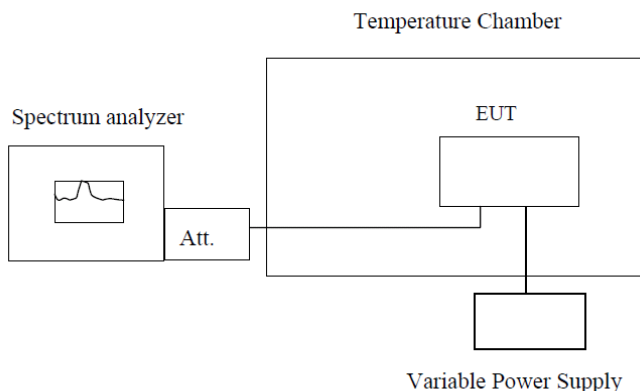
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	35.31	39.82	14.66	32.8	56.99	74	-17.01	Vertical
15630.00	33.36	38.09	17.71	33.81	55.35	74	-18.65	Vertical
10420.00	34.84	39.82	14.66	32.8	56.52	74	-17.48	Horizontal
15630.00	34.98	38.09	17.71	33.81	56.97	74	-17.03	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	21.19	39.82	14.66	32.8	42.87	54	-11.13	Vertical
15630.00	24.33	38.09	17.71	33.81	46.32	54	-7.68	Vertical
10420.00	21.75	39.82	14.66	32.8	43.43	54	-10.57	Horizontal
15630.00	24.19	38.09	17.71	33.81	46.18	54	-7.82	Horizontal

Notes:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055
Limit:	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
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.

Measurement data: The detailed test data see Appendix for 5G

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

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