

TEST REPORT

FCC ID: 2AOH4WIT01CR

Product: 5G Wireless Video Transmitter

Model No.: WIT01

Additional Model No.: WIT01-M, WIT01-R, WIT01-P

Trade Mark: Accsoon

Report No.: TCT190412E014

Issued Date: May. 06, 2019

Issued for:

Chengdu Accsoon Technology Co., LTD.
No.505, Building 6, D Zone, Tianfu Software Park, No.599, Shijicheng
South Road, Chengdu 610000, China

Issued By:

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1. Test Certification

Product:	5G Wireless Video Transmitter		
Model No.:	WIT01		
Additional Model No.:	WIT01-M, WIT01-P		
Trade Mark:	Accsoon		
Applicant: Chengdu Accsoon Technology Co., LTD.			
Address:	No.505, Building 6, D Zone, Tianfu Software Park, No.599, Shijicheng South Road, Chengdu 610000, China		
Manufacturer:	ShenZhen Accsoon Technology Co., LTD.		
Address: No. 302, 3rd Floor, Building A3, Guigudongli Park, Qinghu, Longh District, Shenzhen, China			
Date of Test: Apr. 15, 2019 – May. 05, 2019			
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General U-NII Test Procedures New Rules v02r01		

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Brens Xu

Date:

May. 05, 2019

Brews Xu

Tomsin

Reviewed By:

Date:

May. 06, 2019

Approved By:

Date:

May. 06, 2019



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(a)	PASS
Radiated Emission	§15.407(a)	PASS
Frequency Stability	§15.407(g)	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



3. EUT Description

Product:	5G Wireless Video Transmitter		
Model No.:	WIT01		
Additional Model No.:	WIT01-M, WIT01-P		
Trade Mark:	Accsoon		
Operation Frequency:	Band 1: 5180 MHz -5240 MHz Band 3: 5745 MHz -5825 MHz		
Channel Bandwidth:	802.11n: 20MHz		
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)		
Modulation Type	64QAM, 16QAM, BPSK, QPSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	ANT0: 2.5dBi ANT1: 2.5dBi		
Power Supply:	Rechargeable Li-ion battery DC 3.6V		
Remark:	All models above are identical in interior structure, electrical circuits and components, and just appearance colors and sales areas are different for the marketing requirement		





Test Frequency each of channel

Band 1

20MHz			
Channel Frequency			
36	5180		
40	5200		
48	5240		

Band 3

20MHz			
Channel	Frequency		
149	5745		
157	5785		
165	5825		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:



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4. General Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)

The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

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:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate	
802.11n(HT20)	6.5 Mbps	
Final Test Mode:		
Operation mode:	Keep the EUT in continuous transmitting with modulation	

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4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	/	1	1	1

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. Antenna requirement

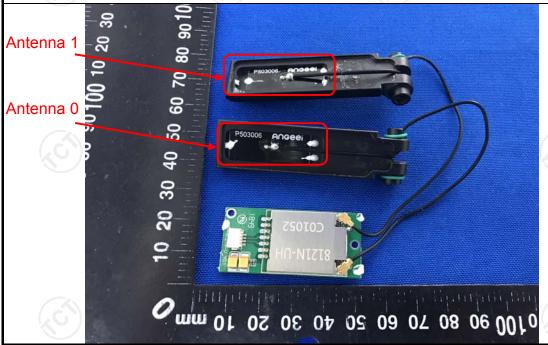
Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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.

E.U.T Antenna:

The EUT has two internal antennas, and the best case gains of the both antennas are 2.5dBi.







6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time:	=auto	
	Frequency range	dBuV)		
	(MHz)	Quasi-peak	Average	
Limits:	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	Reference	e Plane		
Test Setup: Filter				
Test Mode:	Tx Mode			
Test Procedure:	 The E.U.T and simple power through a line (L.I.S.N.). This proimpedance for the modern through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10: 2013 	e impedance stable ovides a 500hm, neasuring equipments are also connected with 500hm term diagram of the line are checked once. In order to fine a must be changed must be changed in the line are checked are positions of equipments are changed in the line are checked are positions of equipments.	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH hination. (Please test setup and d for maximum of the maximum pment and all of ed according to	
Test Result:	PASS			



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Test Receiver	R&S	ESPI	101402	Jul. 17, 2019	
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 20, 2019	
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 16, 2019	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

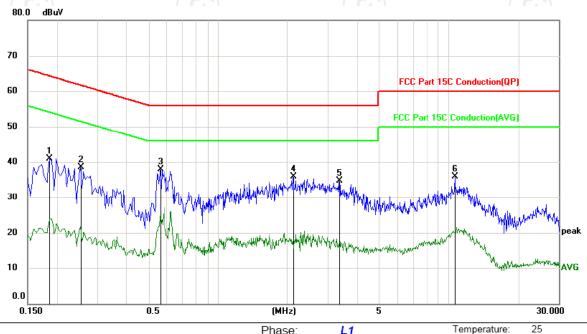
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6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site Phase: L1 Temperature: 25 Limit: FCC Part 15C Conduction(QP) Power: Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
	1		0.1860	30.76	10.12	40.88	64.21	-23.33	peak	
	2		0.2535	28.46	10.13	38.59	61.64	-23.05	peak	
_	3	*	0.5639	27.70	10.13	37.83	56.00	-18.17	peak	
_	4		2.1165	25.88	10.12	36.00	56.00	-20.00	peak	
_	5		3.3495	24.58	10.13	34.71	56.00	-21.29	peak	
_	6		10.6755	25.73	10.15	35.88	60.00	-24.12	peak	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

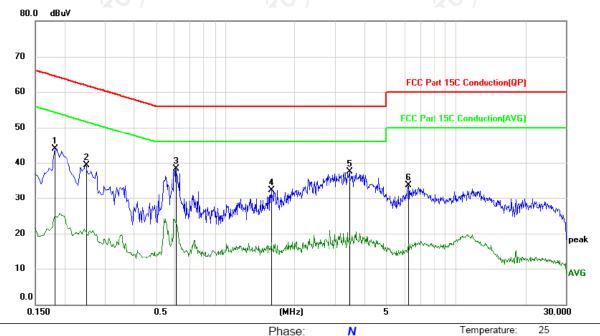
AVG =average

Any value more than 10dB below limit have not been specifically reported.

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Power:	Humidity:	55 %
1 04401.	,	

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
_	1		0.1815	33.76	10.12	43.88	64.42	-20.54	peak	
_	2		0.2490	29.22	10.13	39.35	61.79	-22.44	peak	
ζ_	3	*	0.6134	28.10	10.13	38.23	56.00	-17.77	peak	
) _	4		1.5809	22.25	10.12	32.37	56.00	-23.63	peak	
_	5		3.4575	27.30	10.13	37.43	56.00	-18.57	peak	
_	6		6.2025	23.64	10.13	33.77	60.00	-26.23	peak	

Note:

Site

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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6.3. Maximum Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 E Section	on 15.407(a)			
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E				
	Frequency Band (MHz)	Limit			
	5180 - 5240	24dBm(250mW) for client device			
Limit:	5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz			
	5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz			
	5745 - 5825	30dBm(1W)			
Test Setup:	Power meter	EUT			
Test Mode:	Transmitting mode w	vith modulation			
Test Procedure:	KDB789033 D02 Rules v02r01 Se 2. The RF output of meter by RF cab compensated to 3. Set to the maximu EUT transmit cor 5. Measure the cond	 The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 			
Test Result:	PASS				
Remark: Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power					



6.3.2. Test Instruments

RF Test Room							
Equipment	Manufacturer Model		Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 20, 2019			
Power Meter	Agilent	E4418B	GB43312526	Sep. 16, 2019			
Power Sensor	Agilent	E9301A	MY41497725	Sep. 16, 2019			
RF Cable (9KHz-40GHz)	тст	RE-03	N/A	Sep. 20, 2019			
Antenna Connector	TCT	RFC-03	N/A	Sep. 20, 2019			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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6.3.3. Test Data

0.3.3. Test Dat	a							
Configuration Band 1 (5180 - 5240 MHz) / Antenna 0+Antenna 1								
Mode	Test channel		Conducted (Author) ut Power (dB)	Limit	Result			
oue		Ant0	Ant1	Total	(dBm)			
11n(HT20)	CH36	13.05	11.88	15.51	24	PASS		
11n(HT20)	CH40	12.67	12.54	15.62	24	PASS		
11n(HT20)	CH48	12.78	12.77	15.79	24	PASS		

Configuration Band 3 (5745 - 5825 MHz) / Antenna 0+Antenna 1								
Mode	Test channel		Conducted (A ut Power (dB	Limit	Result			
		Ant0	Ant1 Total			(dBm)		
11n(HT20)	CH149	12.73	11.12	15.01	30	PASS		
11n(HT20)	CH157	11.95	11.25	14.62	30	PASS		
11n(HT20)	CH165	12.88	12.82	15.86	30	PASS		





6.4. 6dB Emission Bandwidth

6.4.1. Test Specification

- 15	FCC CFR47 Part 15 Section 15.407(e)
Test Requirement:	1 00 01 1(47 1 dit 10 000tion 10.407(c)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	EUT EUT
	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 20, 2019				
RF Cable (9KHz-40GHz)	тст	RE-03	N/A	Sep. 20, 2019				
Antenna Connector	TCT	RFC-03	N/A	Sep. 20, 2019				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.4.3. Test data

ANT 0

Band 3 (5745 - 5825 MHz)							
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result		
11n(HT20)	CH149	5745	15.18	0.5	PASS		
11n(HT20)	CH157	5785	15.19	0.5	PASS		
11n(HT20)	CH165	5825	15.16	0.5	PASS		

ANT 1

Band 3 (5745 - 5825 MHz)							
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result		
11n(HT20)	CH149	5745	15.14	0.5	PASS		
11n(HT20)	CH157	5785	15.13	0.5	PASS		
11n(HT20)	CH165	5825	15.18	0.5	PASS		

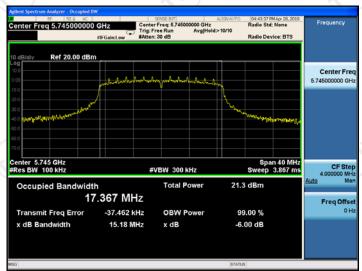
Test plots as follows:



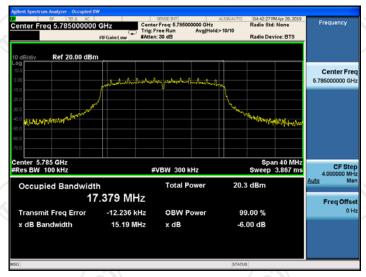


ANT 0 Band 3 (5725 – 5850 MHz)

11n(HT20) CH149



CH157



CH165





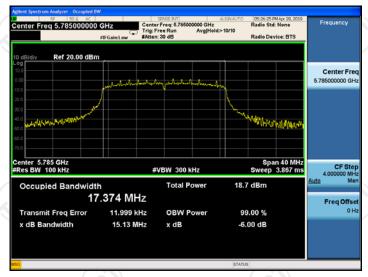
ANT 1 Band 3 (5725 – 5850 MHz)

11n(HT20)

CH149



CH157



CH165







6.5. 26dB Bandwidth and 99% Occupied Bandwidth

6.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)				
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D				
Limit:	No restriction limits				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. Measure and record the results in the test report. 				
Test Result:	PASS				

6.5.2. Test Instruments

RF Test Room								
Equipment Manufacturer Model Serial Number Calibra								
Spectrum Analyzer	Agilent	ilent N9020A MY49100619		Sep. 20, 2019				
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 20, 2019				
Antenna Connector	TCT	RFC-01	N/A	Sep. 20, 2019				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.5.3. Test data

ANT 0 Band 1

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11n(HT20)	CH36	5180	20.28	17.413
11n(HT20)	CH40	5200	20.49	17.418
11n(HT20)	CH48	5240	20.75	17.409

Band 3

/	Mode Test channel			
	Mode	Test channel	Frequency (MHz)	99% Bandwidth (MHz)
	11n(HT20)	CH149	5745	17.409
	11n(HT20)	CH157	5785	17.389
	11n(HT20)	CH165	5825	17.406



ANT 1 Band 1

Band 1				
Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11n(HT20)	CH36	5180	19.83	17.416
11n(HT20)	CH40	5200	19.82	17.416
11n(HT20)	CH48	5240	20.06	17.391

Band 3

(C ¹)			(C)
Mode	Test channel	Frequency (MHz)	99% Bandwidth (MHz)
11n(HT20)	CH149	5745	17.431
11n(HT20)	CH157	5785	17.409
11n(HT20)	CH165	5825	17.414



Test plots as follows: ANT 0 Band 1 (5180-5240 MHz)

11n(HT20)

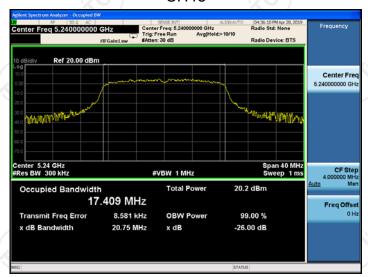
CH36



CH40



CH48



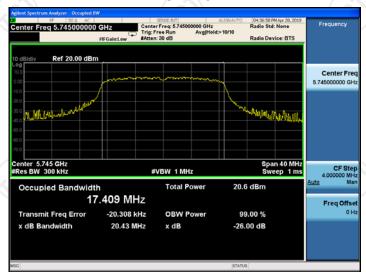
Report No.: TCT190412E014



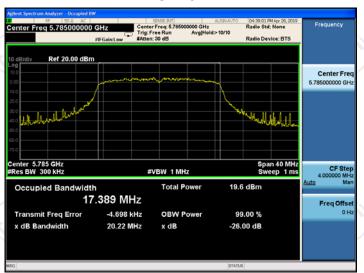
Band 3(5745-5825MHz)

11n(HT20)

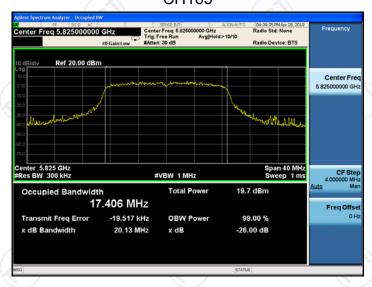
CH149



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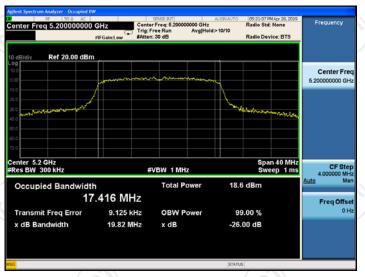
ANT 1 Band1 (5180-5240MHz)

11n(HT20)

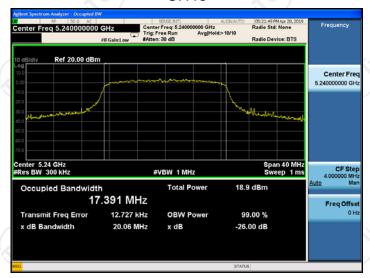
CH36



CH40



CH48

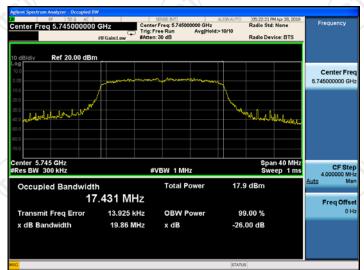




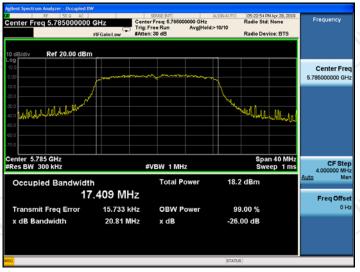
Band 3 (5745-5825MHz)

11n(HT20)

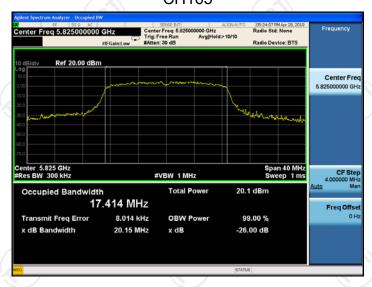
CH149



CH157



CH165



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6.6. Power Spectral Density

6.6.1. Test Specification

	E00 D (45 E 0 () 45 407 ()				
Test Requirement:	FCC Part15 E Section 15.407 (a)				
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F				
Limit:	≤11.00dBm/MHz for Band 1 5180MHz-5240MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5240-5350&5470- 5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz The e.i,r,p spectral density for Band 1 5180MHz – 5240 MHz should not exceed 10dBm/MHz				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment. 				
Test Result:	PASS				

6.6.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration I							
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 20, 2019			
RF Cable (9KHz-40GHz)	тст	RE-03	N/A	Sep. 20, 2019			
Antenna Connector	тст	RFC-03	N/A	Sep. 20, 2019			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6.3. Test data

Configuration Band 1 (5180-5240 MHz) / Antenna 0+Antenna 1								
Mode	Test channel	Power	Spectral Der	Limit	Dogult			
Wode	rest channel	Ant0	Ant1	Total	(dBm/MHz)	Result		
11n(HT20)	CH36	2.060	0.896	4.527	11 (0	PASS		
11n(HT20)	CH40	2.094	1.782	4.951	11	PASS		
11n(HT20)	CH48	1.960	1.325	4.664	11	PASS		

Note: 1. All antennas have the same gain. G_{ANT} =2.5dBi, Array Gain=10log(N_{ANT} / N_{SS})=3.01dBi

Directional Gain= G_{ANT} + Array Gain=5.51dBi, 5.51dBi <6dBi so limit=11dBm/MHz

2. The total PSD method used the sum spectra maxima across the outputs.

Configuration Band 3(5745-5825MHz) / Antenna 0+Antenna 1								
Mode	Test channel	Power Spectral Density			Limit	Dogult		
Iviode	Test channel	Ant0	Ant1	Total	(dBm/MHz)	Result		
11n(HT20)	CH52	2.070	1.510	4.809	30	PASS		
11n(HT20)	CH60	1.485	0.267	3.929	30	PASS		
11n(HT20)	CH64	2.323	0.578	4.548	30	PASS		

Note: 1. All antennas have the same gain. G_{ANT} =2.5dBi, Array Gain=10log(N_{ANT} / N_{SS})=3.01dBi Directional Gain= G_{ANT} + Array Gain=5.51dBi, 5.51dBi <6dBi so limit=30dBm/MHz

2. The total PSD method used the sum spectra maxima across the outputs.

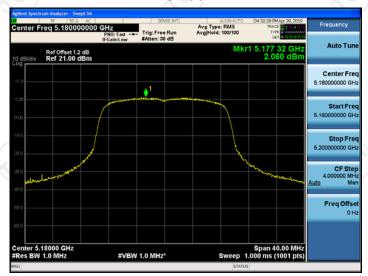
Test plots as follows:



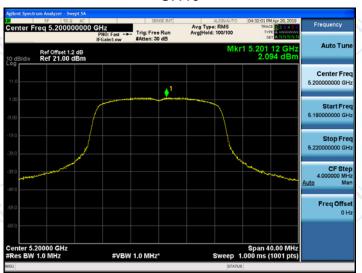
ANT 0 Band1 (5180-5240 MHz)

11n(HT20)

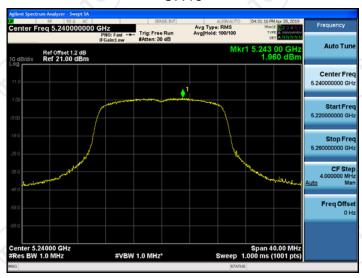
CH36



CH40



CH48

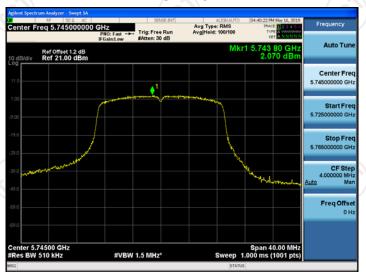




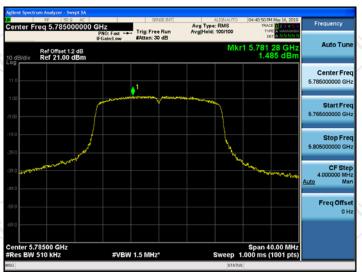
Band 3 (5745-5825MHz)

11n(HT20)

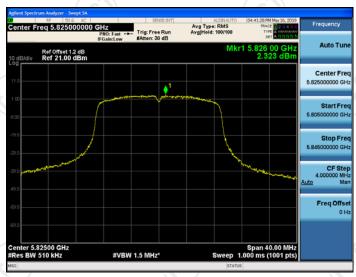
CH149



CH157



CH165



Report No.: TCT190412E014



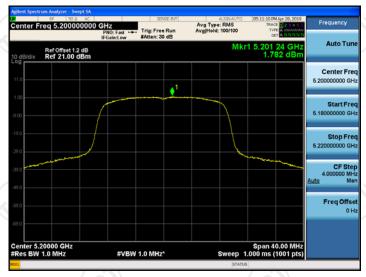
ANT 1 Band 1 (5180-5240 MHz)

11n(HT20)

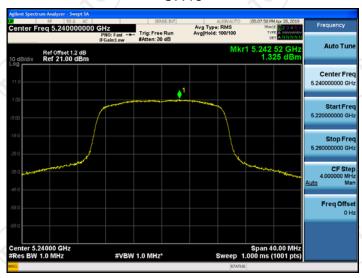
CH36



CH40



CH48

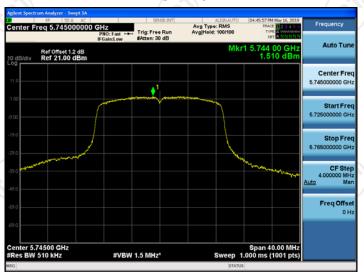




Band 3 (5745-5825MHz)

11n(HT20)

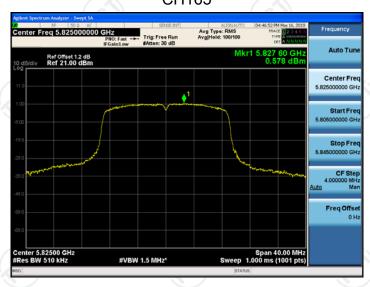
CH149



CH157



CH165



Report No.: TCT190412E014





6.7. Band edge

6.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10 2013
Limit:	For Band 1&2A&2C: $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2$ $dB\mu V/m$, for $EIRP(dBm) = -27dBm$ For Band 3(5715-5725MHz&5850-5860MHz): $E[dB\mu V/m] = EIRP[dBm] + 95.2=78.2$ $dB\mu V/m$, for $EIRP(dBm) = -17dBm$; For Band 3(other un-restricted band): $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2$ $dB\mu V/m$, for $EIRP(dBm) = -27dBm$
Test Setup:	Antenna Tower Horn Antenna Ground Reference Plane Test Receiver Test Receiver Controller
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was



10dB lower than the limit specified, then testing could be

	stopped reported 10dB m quasiped	d and the pe d. Otherwis nargin would	eak values of e the emissi d be re-teste age method	of the EUT we cons that did to consider that did to consider the constant of t	not have ne using pea	
Test Result:	PASS					



6.7.2. Test Instruments

(2	Radiated Emission Test Site (966)										
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due							
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 17, 2019							
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 20, 2019							
Spectrum Analyzer	ROHDE&SCHW ARZ	FSP40	100056	Sep. 20, 2019							
Spectrum Analyzer	Agilent	N9020A	MY4910061 9	Sep. 20, 2019							
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 16, 2019							
Pre-amplifier	HP	8447D	2727A05017	Sep. 16, 2019							
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019							
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 02, 2019							
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 20, 2019							
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 16, 2019							
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 16, 2019							
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 16, 2019							
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 16, 2019							
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 16, 2019							
Antenna Mast	Keleto	RE-AM	N/A	N/A							
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A							

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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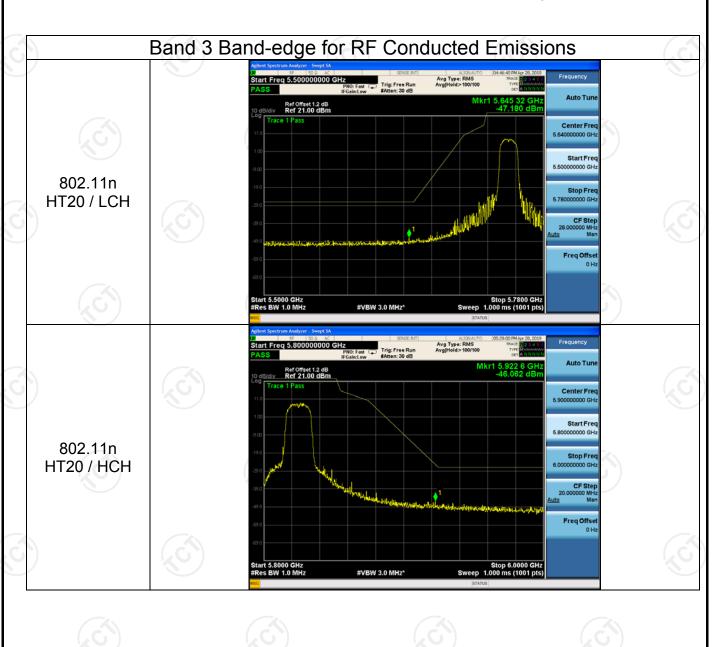


6.7.3. Test Data

802.11 n HT20	СН	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Lowest Band 1	5150	42.53	6.37	48.90	68.2	54	-5.10	Н	
	Lowest	5150	36.75	6.37	43.12	68.2	54	-10.88	V
	Uliahaat	5350	40.36	8.36	48.72	68.2	54	-5.28	Н
	Highest	5350	34.47	8.36	42.83	68.2	54	-11.17	V
	Lowoot	5725	43.73	8.21	50.69	122.2	54	-3.31	Н
Dand 2	Lowest	5725	43.18	8.21	50.14	122.2	54	-3.86	V
Band 3	I liada a at	5850	42.45	8.87	50.66	122.2	54	-3.34	Н
Higi	Highest	5850	40.61	8.87	48.82	122.2	54	-5.18	V
Remark:	Factor(dB)	=Ant. Fac	tor+Cable Los	s-Amp. F	actor				

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6.8. Spurious Emission

6.8.1.1. Test Specification

Test Requirement:	FCC CFR47	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205						
Test Method:	KDB 789033	D02 v02r0	01					
Frequency Range:	Band 1 & 2A 5.46GHz Band 2C &3:				5.35GHz to			
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal &	Horizontal & Vertical						
Operation mode:	Transmitting	mode with	modulat	ion				
	Francis	Detector	DDW	VDW				
Receiver Setup:	Frequency	Detector Peak	RBW 1MHz	VBW 3MHz	Remark Peak Value			
Receiver Setup.	Above 1GHz	RMS	1MHz	3MHz	Average Value			
Limit:	Above 1GHz 74 Peak							
Test setup:	1	Test Receive	3m und Reference Plane	Pre- mplåer Controller	nna Tower			
Test Procedure:	D02 Generation D02 Ge	eral UNII To ection G) I ment. diated emis was placed bund. The I ce receiving of a varia arranged to na tower (f	est Proce Unwanted ssion test d on a tu EUT was ng antenr ble heigh to its wors from 1 m	edures N d emission t below 1 rntable we set 3 me set 3 me na, which nt antenn st case a to 4 m) a	ons			



reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for f>1 GHz for peak measurement.

For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. (4) A 5.8GHz high –PASS filter is used druing radiated emissions above 1GHz measurement.

Test results:

PASS



6.8.1.2. Test Instruments

Radiated Emission Test Site (966)										
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 17, 2019						
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 20, 2019						
Spectrum Analyzer	ROHDE&SCHW ARZ	FSP40	100056	Sep. 20, 2019						
Spectrum Analyzer	Agilent	N9020A	MY4910061 9	Sep. 20, 2019						
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 16, 2019						
Pre-amplifier	HP	8447D	2727A05017	Sep. 16, 2019						
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019						
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 02, 2019						
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 20, 2019						
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 16, 2019						
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 16, 2019						
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 16, 2019						
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 16, 2019						
Coax cable (9KHz-40GHz)	ТСТ	RE-high-04	N/A	Sep. 16, 2019						
Antenna Mast	Keleto	CC-A-4M	N/A	N/A						
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A						

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.8.2. Unwanted Emissions out of the Restricted Bands

6.8.2.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 S	ection 15.	407 & 1	5.209 & 15.205				
Test Method:	KDB 789033								
Frequency Range:	9kHz to 40G		(C')		((())				
Measurement Distance:	3 m	<u> </u>							
Antenna Polarization:	Horizontal &	Vertical							
Operation mode:		Transmitting mode with modulation							
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peak Quasi-peak	RBW 200Hz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value				
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value				
Limit:	per FCC Par general field below table, Frequency 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960	t15.205 sl	Field Strength (microvolts/meter) 2400/F(KHz) 24000/F(KHz) 30 100 150 200 500		Measurement Distance (meters) 300 30 30 30 3				
	Frequency Above 1G	(Limit (dBuV/r 74.0 54.0	n @3m)	Detector Peak Average				
Test setup:	For radiated Di EUT 0.8m 30MHz to 10	Turn table	lm	Pre -	Computer				



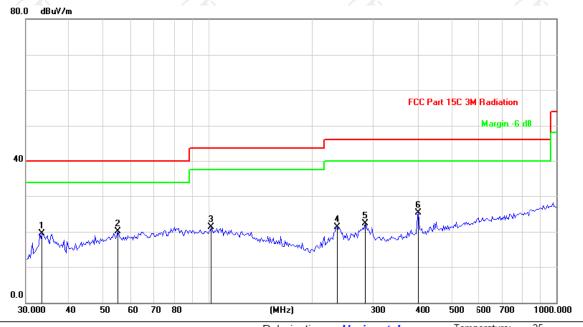
	·
	Antenna Tower Search Antenna RF Test Receiver Turn Table 0.8m lm
	Above 1GHz
	Horn Antenna Tower Horn Antenna Tower
	1. The EUT was placed on the top of a rotating table 0.8
Test Procedure:	meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.
Test results:	PASS
	('c') ('c')



6.8.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:



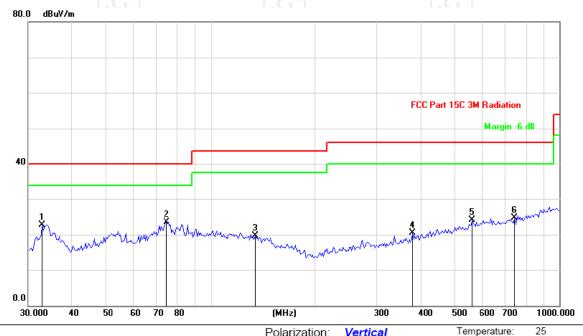
Limit: FCC Part 15C 3M Radiation Power:

Polarization: Horizontal Temperature: 29
Power: Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		33.3349	30.61	-11.02	19.59	40.00	-20.41	peak
2	*	55.2883	31.33	-11.27	20.06	40.00	-19.94	peak
3		101.8932	29.54	-8.17	21.37	43.50	-22.13	peak
4		235.1346	34.32	-13.00	21.32	46.00	-24.68	peak
5		282.2702	33.72	-11.51	22.21	46.00	-23.79	peak
6		401.1050	34.17	-8.94	25.23	46.00	-20.77	peak



Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: Humidity: 55 %

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		32.8697	33.65	-11.02	22.63	40.00	-17.37	peak
2	*	74.7934	39.76	-16.16	23.60	40.00	-16.40	peak
3		134.0194	35.31	-15.68	19.63	43.50	-23.87	peak
4		379.1780	29.74	-9.25	20.49	46.00	-25.51	peak
5		562.0143	30.76	-6.70	24.06	46.00	-21.94	peak
6		744.4265	29.33	-4.58	24.75	46.00	-21.25	peak

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11n(HT20)), and the worst case Mode (Lowest channel and 802.11n(HT20)) was submitted only.



	Modulation Type: Band 1									
	11n(HT20) CH36: 5180MHz									
Freque (MHz	ncy z)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
1036	0	I	41.64		8.02	49.66		74	54	-4.34
1554	0	I	42.38		9.87	52.25		74	54	-1.75
		H		+ (1)					+ (1)	
		(0)		120			(0)		120	
1036	0	V	41.46		8.02	49.48		74	54	-4.52
1554	0	V	39.92		9.87	49.79		74	54	-4.21
		V								

	11n(HT20) CH40: 5200MHz									
Frequen (MHz)	cy Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
10400	Н	40.05		7.97	48.02	-	74	54	-5.98	
15600	Н	41.73		9.83	51.56		74	54	-2.44	
	Н		4	/	'			-4		
10400	V	43.27		7.97	51.24		74	54	-2.76	
15600	V	40.51		9.83	50.34		74	54	-3.66	
	V			((

	11n(HT20) CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
10480	H	40.19	// C ,	7.97	48.16	₹ ○→	74	54	-5.84	
15720	H	39.80		9.83	49.63		74	54	-4.37	
	Н									
10480	V	41.26		7.97	49.23		74	54	-4.77	
15720	V	40.65		9.83	50.48		74	54	-3.52	
	V	\					<u> </u>			

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





	Modulation Type: Band 3									
	11n(HT20) CH151: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11510	Н	41.08		8.09	49.17		74	54	-4.83	
17265	ΛH	40.62	7- (1)	9.67	50.29		74	54	-3.71	
()	CH		 0)		(C)+		(2 C)		
					~					
11510	V	42.74		8.09	50.83		74	54	-3.17	
17265	V	40.27		9.67	49.94		74	54	-4.06	
X	V				X		-		/	

					<i>J</i> 1				
			11n	(HT20) CH	157: 5785N	ИHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11570	H	41.93		8.10	50.03		74	54	-3.97
17355	H	42.46	KO	9.65	52.11	(9-J	74	54	-1.89
	Н					<u> </u>			
11570	V	40.65		8.10	48.75		74	54	-5.25
17355	V	40.81		9.65	50.46		74	54	-3.54
)	V)				/

			11n	(HT20) CH	165: 5825N				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11650	H	40.19		8.12	48.31	 -	74	54	-5.69
17475	Η	39.30		9.62	48.92	-	74	54	-5.08
	Ι								
					-,.				
11650	V	43.04		8.12	51.16		74	54	-2.84
17475	V	41.28		9.62	50.90		74	54	-3.10
	V								

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.







6.9. Frequency Stability Measurement

6.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g)
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at Antenna 0 and Antenna 1, the worst case was found. Only the test data of Antenna 0 was shown in this report.



Test plots as follows:

Test mode:	802.11n(HT20)	Frequency(MHz):			5180	
Temperature (°C)	Voltage(DC)	Measure	Measurement			Result	
Temperature (C)	voltage(DC)	Frequency	y(MHz)	Frequency(I	Delta Frequency(Hz) 9200 6400 -12200 -1700 3800 4200 -16900 Frequency(Hz) Frequency(Hz)	ixesuit	
45		5180.0	092	9200		PASS	
35		5180.0	064	6400		PASS	
25	3.6V	5179.9	878	-12200		PASS	
15	3.00	5179.9	983	-1700		PASS	
5		5180.0	038	3800		PASS	
0		5180.0	042	4200		PASS	
	3.2	5179.9	831	-16900		PASS	
20	3.6	5180.0	034	3400		PASS	
	4.2	5179.9	825	-17500		PASS	

Test mode:	802.11n(l	HT20) Frequ	ency(MHz):	5200
Temperature (°C)	Voltage(DC)	Measurement	Delta	Result
` '		Frequency(MHz)	Frequency(Hz)	
45		5200.0090	9000	PASS
35		5200.0089	8900	PASS
25	3.6V	5200.0078	7800	PASS
15	3.00	5200.0043	4300	PASS
5		5199.9980	-2000	PASS
0		5199.9879	-12100	PASS
(70.)	3.2	5199.9957	-4300	PASS
20	3.6	5200.0031	3100	PASS
	4.2	5200.0053	5300	PASS

Test mode:	802.11n(l	HT20) Freq	uency(MHz):	5240
Temperature (°C)	Voltage(DC)	Measurement	Delta	Result
Temperature (C)	voltage(DC)	Frequency(MHz	z) Frequency(Hz	z) Nesuit
45		5240.0043	4300	PASS
35		5240.0029	2900	PASS
25	3.6V	5240.0024	2400	PASS
15	3.00	5239.9991	-900	PASS
5	3.0 V	5239.9983	-1700	PASS
0		5239.9979	-2100	PASS
	3.2	5240.0035	3500	PASS
20	3.6	5240.0010	1000	PASS
	4.2	5239.9985	-1500	PASS



Test mode:	802.11n(HT20)	Freque	ency(MHz):		5745	
Temperature (°C)	Voltage(DC)	Measur	ement	Delta		Pocult	
remperature (C)	voltage(DC)	Frequenc	cy(MHz)	Frequency(I	Hz)	PASS PASS PASS PASS PASS PASS PASS PASS	
45		5745.0	0012	1200		PASS	
35		5745.0	0014	1400		PASS	
25	3.6V	5744.9	9960	-4000		PASS	
15	3.00	5744.9	9955	-4500		PASS	
5		5745.0	0033	3300		PASS	
0		5745.0	0041	4100		PASS	
	3.2	5745.0	0076	7600	-11	PASS	
20	3.6	5745.0	0071	7100		PASS	
	4.2	5745.0	0021	2100		PASS	

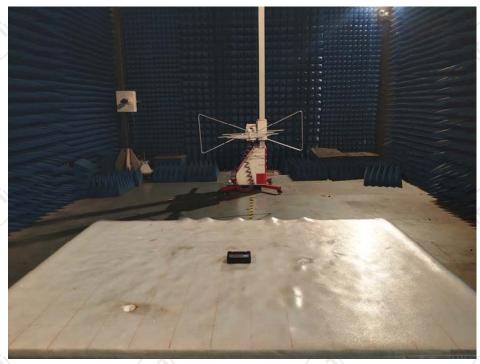
Test mode:	802.11n(l	HT20)	Freque	ency(MHz):	5785		
Temperature (°C)	Voltage(DC)	Measurement		Delta		Result	
Temperature (C)	voitage(DC)	Frequenc	cy(MHz)	Frequency(Hz)		ixesuit	
45		5785.	8800	8300		PASS	
35		5785.	0030	3000		PASS	
25	3.6V	5785.	0028	2800	3)	PASS	K
15	3.00	5785.	8000	800		PASS	
5		5785.	0025	2500		PASS	
0		5785.	0043	4300		PASS	
(20.)	3.2	5785.	0057	5700		PASS	
20	3.6	5785.	0026	2600		PASS	
	4.2	5784.	9975	-2500		PASS	

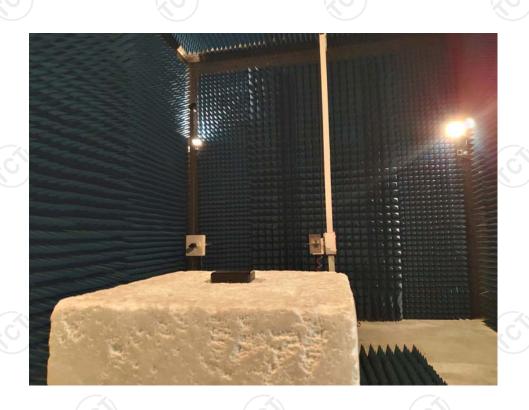
Test mode:		802.11n(F	HT20)	Freque	ency(MHz):		5825			
Temperature (°C)	Tomporature (°C) Valtac		re (°C) Voltage(DC)		Measurement		Delta		Result	
Temperature (C)	V	ollage(DC)	Frequen	cy(MHz)	Frequency	(Hz)	Nesuit			
45			5824.	.9813	-18700		PASS			
35		3.6V	5825.	.0081	8100		PASS			
25			5824.	9953	-4700		PASS			
15			5824.	9985	-1500		PASS			
5			5825.	.0015	1500		PASS			
0	(.c		5825.	.0046	4600		PASS			
		3.2	5825.	.0042	4200		PASS	No.		
20		3.6	5824.	9987	-1300		PASS			
		4.2	5825.	0024	2400		PASS			



Appendix A: Photographs of Test Setup Product: 5G Wireless Video Transmitter

Product: 5G Wireless Video Transmitter
Model: WIT01
Radiated Emission







Conducted Emission























































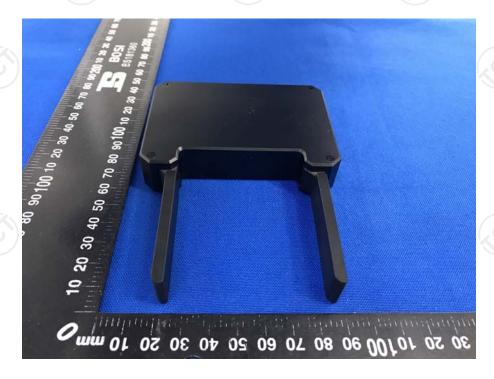
Appendix B: Photographs of EUT
Product: 5G Wireless Video Transmitter
Model: WIT01
External Photos









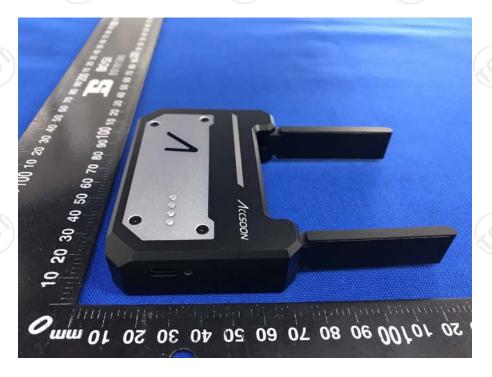


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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

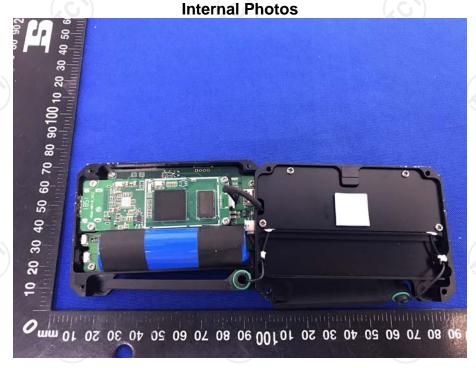


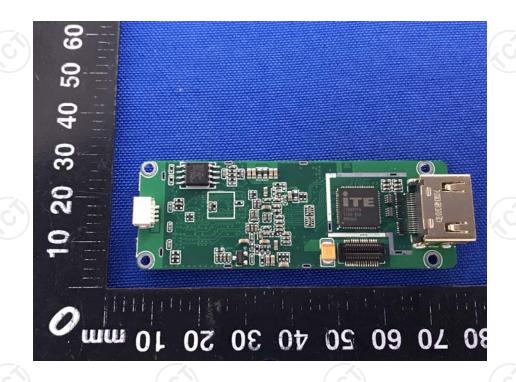




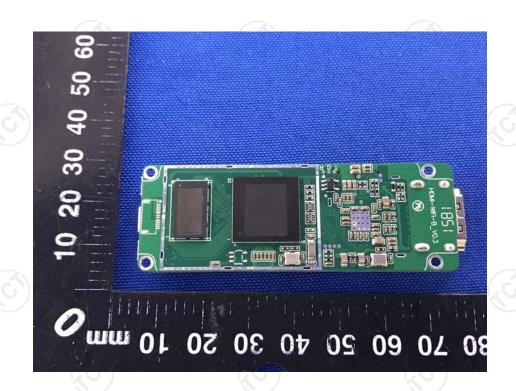


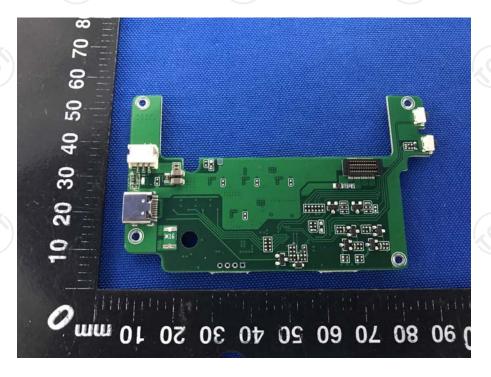
Product: 5G Wireless Video Transmitter
Model: WIT01



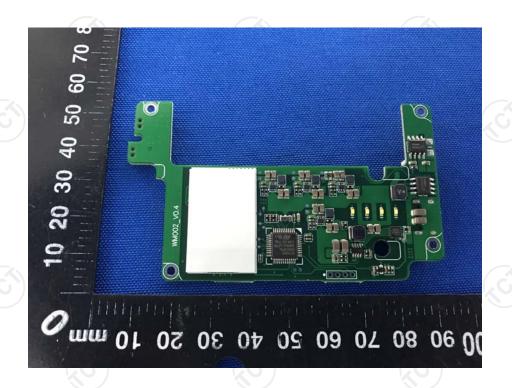


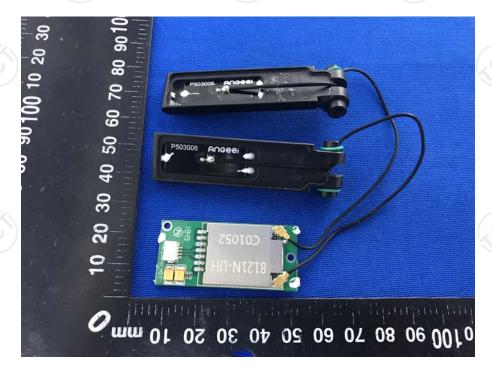




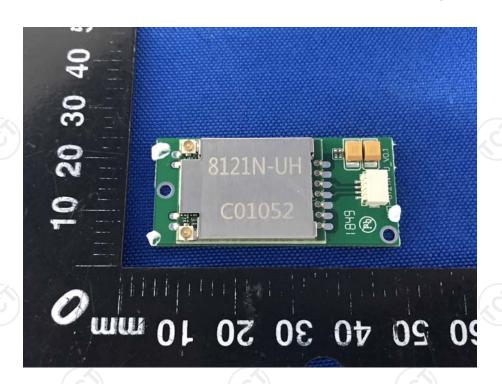


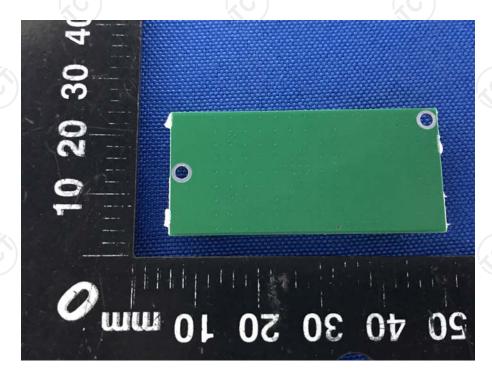




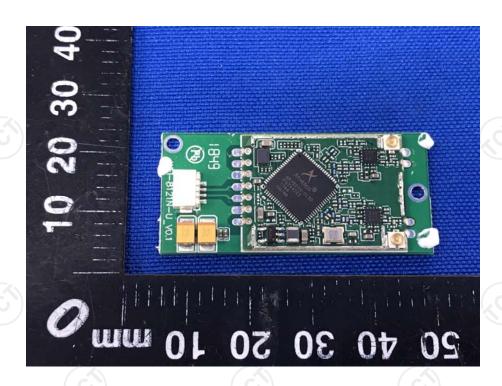


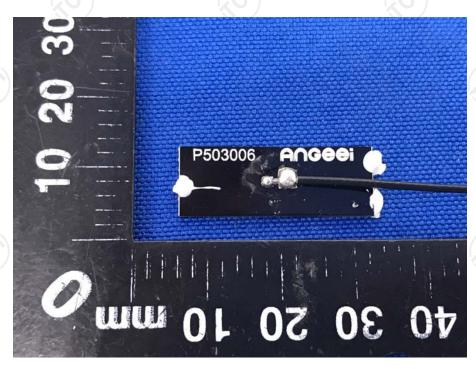




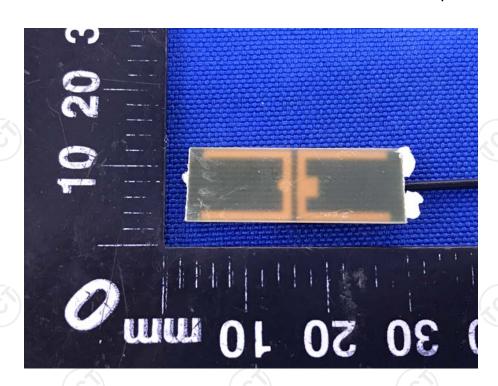


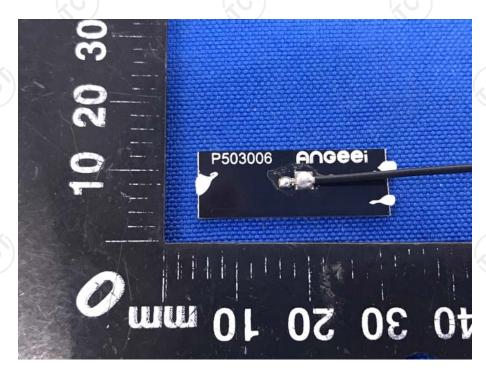




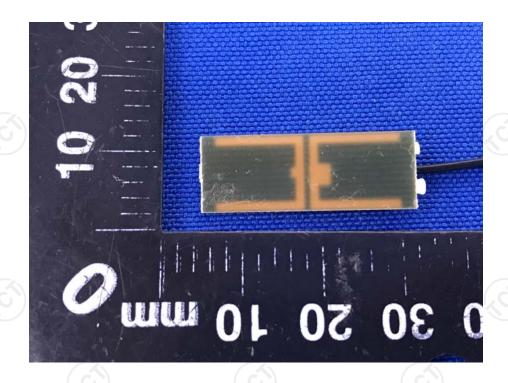


TCT通测检测
TESTING CENTRE TECHNOLOGY















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









