# TEST REPORT

FCC ID: 2AOKI-WFM668UWP1 Product: Wireless Module&Bluetooth Module Model No.: WF-M668-UWP1 Additional Model No.: N/A Trade Mark: N/A Report No.: TCT171205E034 Issued Date: Dec. 27, 2017

Issued for:

Sichuan Al-Link Technology Co., Ltd. Anzhou, Industrial park, Mianyang, Sichuan, China

Issued By:

Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339 FAX: +86-755-27673332

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# 1. Test Certification

Product:	Wireless Module&Bluetooth Module	
Model No.:	WF-M668-UWP1	
Additional Model No.:	N/A	
Trade Mark:	N/A	
Applicant:	Sichuan Al-Link Technology Co., Ltd.	
Address:	Anzhou, Industrial park, Mianyang, Sichuan, China	
Manufacturer:	Sichuan Al-Link Technology Co., Ltd.	
Address:	Anzhou, Industrial park, Mianyang, Sichuan, China	
Date of Test:	Dec. 06, 2017 – Dec. 26, 2017	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2016 KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General U-NII Test Procedures New Rules v02	

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.

	Hotline: 400-6611-140 Te	əl: 86-755-27673339 Fa	ax: 86-755-2767333	Page 3 o 2 http://www.tct-lab.	
S					
	Approved By:	Joe Zhou, Tentos Toms m	Bate:	Dec. 27, 2017	-
S	Reviewed By:	Brews Xu Benf there Tong Joe Zhou	CETRO Date:	Dec. 27, 2017	
	Tested By:	Brews Xu	Date:	Dec. 26, 2017	_

# 2. Test Result Summary

( <sub>2</sub> G <sup>-</sup> )	<u>(</u> C)	$(\chi O)$
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) §2.1046	PASS
6dB Emission Bandwidth	§15.407(a) §2.1049	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a) §2.1049	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(a)	PASS
Radiated Emission	§15.407(a) §2.1053	PASS
Frequency Stability	§15.407(g) §2.1055	PASS
lote:		

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

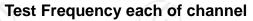
3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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# 3. EUT Description

Product:	Wireless Module&Bluetooth Module
Model No.:	WF-M668-UWP1
Additional Model No.:	N/A
Trade Mark:	N/A
Hardware Version:	JUB7.820.0243-1
Software Version:	customer_package_Ulv1.84_DLLv3.84_20170627_WinDriver V.0.0.4.26_FWv.66103
Operation Frequency:	Band 1: 5180 MHz -5240 MHz band 2A: 5260 MHz -5320 MHz band 2C: 5500 MHz -5720 MHz band 3: 5745 MHz -5825 MHz
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz.80MHZ
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi
Power Supply:	DC 5V



Band 1

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		
48	5240				

### Band 2A

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260	54	5270	58	5290
60	5300	62	5310		
64	5320				

#### Band 2C

20					
20MHz		Iz 40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500	102	5510	106	5530
120	5600	118	5590 <b>C</b>	138	5690
144	5720	142	5710		

#### Band 3

	20N	1Hz		40MHz	801	MHz
	Channel	Frequency	Channel	Frequency	Channel	Frequency
	149	5745	151	5755	155	5775
/	157	5785	159	5795		
	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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#### **Genera Information** 4.

# 4.1. Test environment and mode

### **Operating Environment:**

Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	

### **Test Mode:**

F

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.

was worst case.		
Mode	Data rate	
802.11a	6 Mbps	
802.11n(HT20)	6.5 Mbps	
802.11n(HT40)	13.5 Mbps	
802.11ac(HT20)	6.5 Mbps	
802.11ac(HT40)	13.5 Mbps	
802.11ac(HT80)	29.3 Mbps	
Final Test Mode		

inal lest 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
Notebook	G485	LB00402300	/	Lenovo

#### 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.

# 5. Facilities and Accreditations

# 5.1. Facilities

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

• FCC - Registration No.: 645098

TCT通测检测 TESTING CENTRE TECHNOLOGY

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

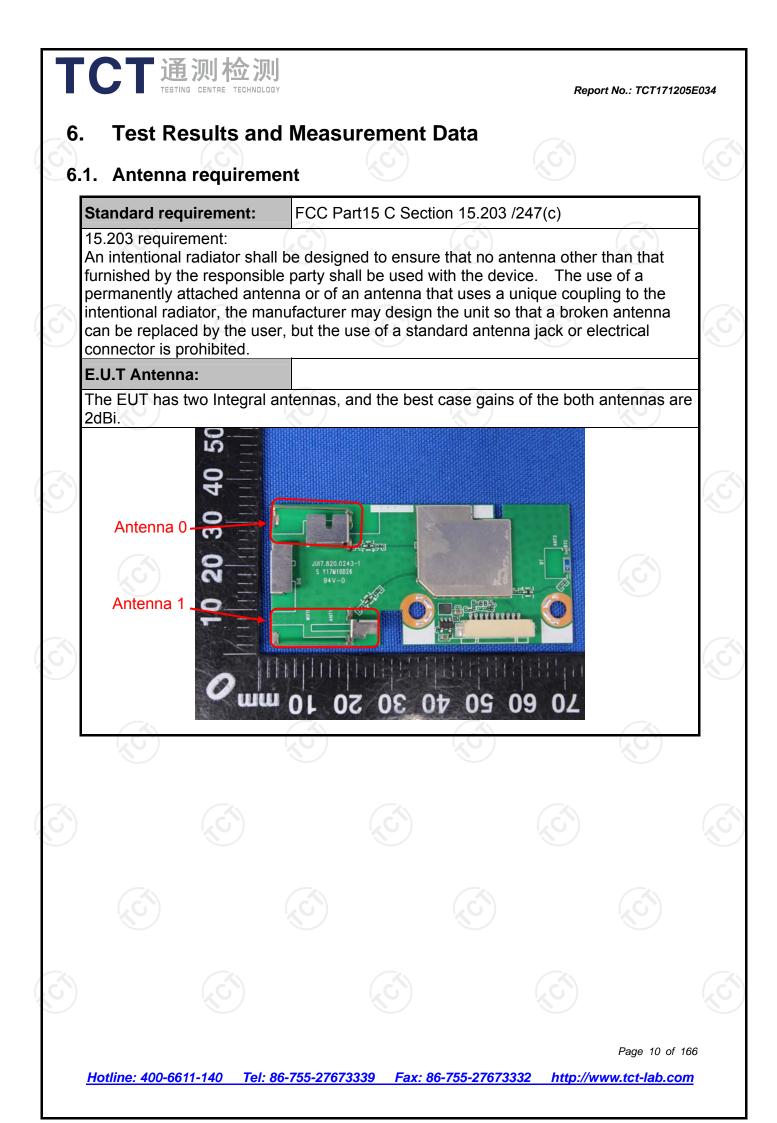
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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 %.

	oonna			
	No.	Item	MU	
Ň	1	Conducted Emission	±2.56dB	
ソ	2	RF power, conducted	±0.12dB	S
	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%	



2.1. Test Specification Test Requirement: Test Method: Frequency Range: Receiver setup: Limits:	FCC Part15 C Section         ANSI C63.10:2013         150 kHz to 30 MHz         RBW=9 kHz, VBW=30         Frequency range (MHz)         0.15-0.5         0.5-5         5-30		dBuV) Average 56 to 46*		
Test Method: Frequency Range: Receiver setup:	ANSI C63.10:2013 150 kHz to 30 MHz RBW=9 kHz, VBW=30 Frequency range (MHz) 0.15-0.5 0.5-5	kHz, Sweep time Limit (o Quasi-peak 66 to 56*	dBuV) Average 56 to 46*		
Frequency Range: Receiver setup:	150 kHz to 30 MHz RBW=9 kHz, VBW=30 Frequency range (MHz) 0.15-0.5 0.5-5	Limit (o Quasi-peak 66 to 56*	dBuV) Average 56 to 46*		
Receiver setup:	RBW=9 kHz, VBW=30 Frequency range (MHz) 0.15-0.5 0.5-5	Limit (o Quasi-peak 66 to 56*	dBuV) Average 56 to 46*		
	Frequency range (MHz) 0.15-0.5 0.5-5	Limit (o Quasi-peak 66 to 56*	dBuV) Average 56 to 46*		
Limits:	(MHz) 0.15-0.5 0.5-5	Quasi-peak 66 to 56*	Áverage 56 to 46*		
Limits:	(MHz) 0.15-0.5 0.5-5	Quasi-peak 66 to 56*	Áverage 56 to 46*		
Limits:	0.5-5				
		56			
	5-30		46		
		60	50		
Test Setup:	Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m	etwork			
Test Mode:	Tx Mode				
Test Procedure:	<ol> <li>Tx Mode</li> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>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.</li> </ol>				

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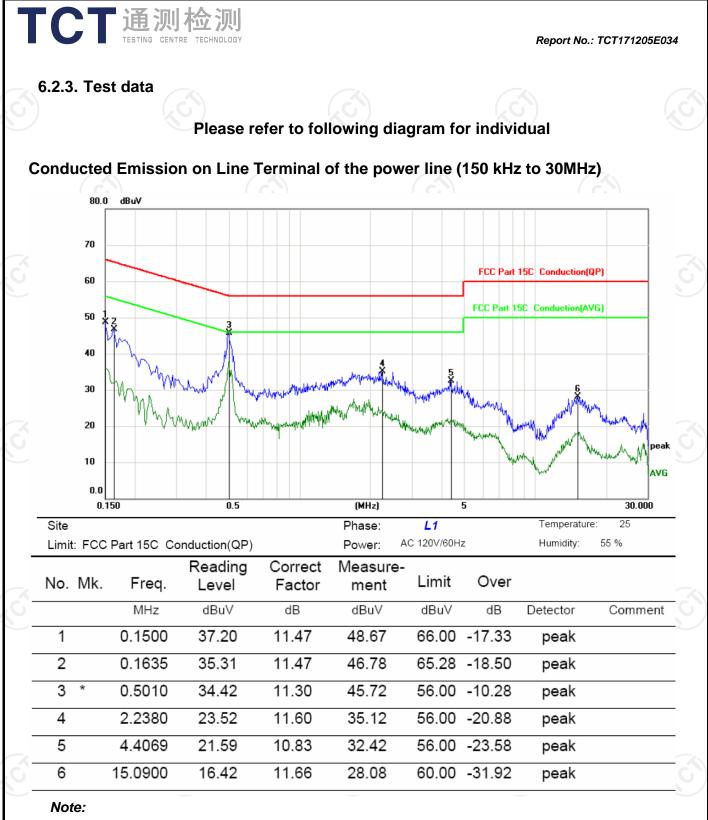
#### 6.2.2. Test Instruments

TCT通测检测 TECTING CENTRE TECHNOLOGY

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018				
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018				
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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Freq. = Emission frequency in MHz

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

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

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

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

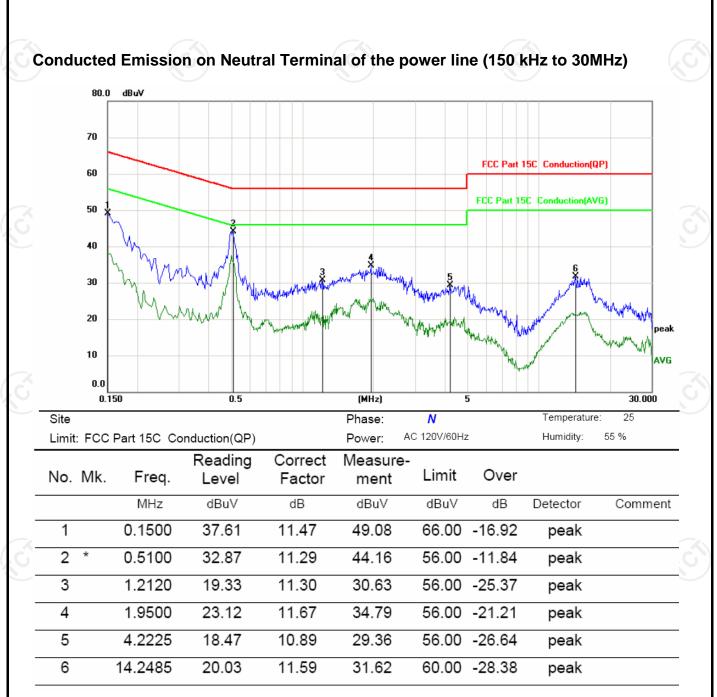
Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

Q.P. =Quasi-Peak

AVG =average

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

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#### Note:

Freq. = Emission frequency in MHz

Reading level  $(dB\mu V) =$  Receiver reading Corr. Factor (dB) = attenuator 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

TCT通测检测 TESTING CENTRE TECHNOLOGY

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

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3. Maximum Condu .3.1. Test Specification	icted Output Power	
Test Requirement:	FCC Part15 E Section 2.1046	on 15.407(a)& Part 2 J Section
Test Method:		Itiple Transmitter Output v02r01 neral UNII Test Procedures New
	Frequency Band (MHz)	Limit
	5150 - 5250	24dBm(250mW) for client device
Limit:	5250 - 5350	24dBm(250mW)
	5470 - 5725	24dBm(250mW)
	5725 - 5850	30dBm(1W)
Test Setup:	Power meter	EUT
Test Mode:	Transmitting mode w	vith modulation
Test Procedure:	KDB789033 D02 Rules v02 Sectio 2. The RF output of meter by RF cab compensated to 3. Set to the maximu EUT transmit cor	EUT was connected to the power e and attenuator. The path loss was the results for each measurement. Im power setting and enable the attinuously. ucted output power and record the
Test Result:	PASS	

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#### 6.3.2. Test Instruments

TCT通测检测 TECTING CENTRE TECHNOLOGY

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018				
Power Meter	Agilent	N1911a	MY45101557	Sep. 27, 2018				
Power Sensor	Agilent	N1922-A	MY44124432	Sep. 27, 2018				
RF Cable (9KHz-40GHz)	тст	RE-03	N/A	Sep. 27, 2018				
Antenna Connector	тст	RFC-03	N/A	Sep. 27, 2018				

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

# 6.3.3. Test Data

Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			Maximum Conducted (Average) FCC St channel Output Power (dBm) Limit		FCC Limit	Result
		Ant0	Ant1	Total	(dBm)			
11a	CH36	13.31	13.27	16.30	24	PASS		
11a	CH40	13.59	13.28	16.45	24	PASS		
11a	CH48	13.59	13.50	16.56	24	PASS		
11n(HT20)	CH36	13.24	12.15	15.74	24	PASS		
11n(HT20)	CH40	13.14	12.06	15.64	24	PASS		
11n(HT20)	CH48	13.26	12.75	16.02	24	PASS		
11n(HT40)	CH38	12.47	11.51	15.03	24	PASS		
11n(HT40)	CH46	12.51	11.05	14.85	24	PASS		
11ac(HT20)	CH36	12.34	12.06	15.21	24	PASS		
11ac(HT20)	CH40	12.78	12.43	15.62	24	PASS		
11ac(HT20)	CH48	13.00	12.53	15.78	24	PASS		
11ac(HT40)	CH38	12.27	12.09	15.19	24	PASS		
11ac(HT40)	CH46	12.60	12.81	15.72	24	PASS		
11ac(HT80)	CH42	12.50	12.28	15.40	24	PASS		

Note : G<sub>ANT</sub>=2dBi, Array Gain=10log(N<sub>ANT</sub>/N<sub>SS</sub>)=3.01dBi, Directional Gain=G<sub>ANT</sub> + Array Gain=5.01dBi,

5.01dBi <6dBi so limit=24dBm/MHz

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Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			FCC Limit	Result
		Ant0	Ant1	Total	(dBm)	
11a	CH52	13.76	13.24	16.52	24	PASS
11a	CH60	13.60	13.52	16.57	24	PASS
11a	CH64	13.49	13.38	16.45	24	PASS
11n(HT20)	CH52	13.16	12.53	15.87	24	PASS
11n(HT20)	CH60	13.25	12.33	15.82	24	PASS
11n(HT20)	CH64	13.24	12.84	16.05	24	PASS
11n(HT40)	CH54	12.70	11.82	15.29	24	PASS
11n(HT40)	CH62	12.66	12.69	15.69	24	PASS
11ac(HT20)	CH52	12.91	12.42	15.68	24	PASS
11ac(HT20)	CH60	12.85	12.85	15.86	24	PASS
11ac(HT20)	CH64	13.02 🔨	12.64	15.84	24	PASS
11ac(HT40)	CH54	12.59	11.76	15.21	24	PASS
11ac(HT40)	CH62	12.52	12.06	15.31	24	PASS
11ac(HT80)	CH58	12.70	12.12	15.43	24	PASS

Note : G<sub>ANT</sub>=2dBi, Array Gain=10log(N<sub>ANT</sub>/N<sub>SS</sub>)=3.01dBi, Directional Gain=G<sub>ANT</sub> + Array Gain=5.01dBi,

5.01dBi <6dBi so limit=24dBm/MHz

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Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)					Result
		Ant0	Ant1	Total	(dBm)		
11a	CH100	13.11	13.07	16.10	24	PASS	
11a	CH120	13.53	13.24	16.40	24	PASS	
11a	CH144	13.39	13.34	16.38	24	PASS	
11n(HT20)	CH100	13.14	12.24	15.72	24	PASS	
11n(HT20)	CH120	12.87	12.60	15.75	24	PASS	
11n(HT20)	CH144	12.94	12.83	15.90	24	PASS	
11n(HT40)	CH102	12.17	11.96	15.08	24	PASS	
11n(HT40)	CH118	12.18	12.81	15.52	24	PASS	
11n(HT40)	CH142	11.86	13.09	15.53	24	PASS	
11ac(HT20)	CH100	12.68	12.44	15.57	24	PASS	
11ac(HT20)	CH120	12.70 🔨	13.16	15.95	24	PASS	
11ac(HT20)	CH144	12.87	12.75	15.82	24	PASS	
11ac(HT40)	CH102	11.90	12.39	15.16	24	PASS	
11ac(HT40)	CH118	12.29	12.83	15.58	24	PASS	
11ac(HT40)	CH142	11.79	13.06	15.48	24	PASS	
11ac(HT80)	CH106	11.79	12.75	15.31	24	PASS	
11ac(HT80)	CH138	12.66	11.80	15.26	24	PASS	

Note : G<sub>ANT</sub>=2dBi, Array Gain=10log(N<sub>ANT</sub>/N<sub>SS</sub>)=3.01dBi, Directional Gain=G<sub>ANT</sub> + Array Gain=5.01dBi,

5.01dBi <6dBi so limit=24dBm/MHz

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Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			FCC Limit	Result
		Ant0	Ant1	Total	(dBm)	
11a	CH149	13.13	12.74	15.95	30	PASS
11a	CH157	13.09	12.40	15.77	30 🔍	PASS
11a	CH165	13.17	12.75	15.98	30	PASS
11n(HT20)	CH149	12.80	12.45	15.64	30	PASS
11n(HT20)	CH157	12.89	12.08	15.51	30	PASS
11n(HT20)	CH165	13.11	12.36	15.76	30	PASS
11n(HT40)	CH151	11.56	12.61	15.13	30	PASS
11n(HT40)	CH159	11.55	12.31	14.96	30 🔍	PASS
11ac(HT20)	CH149	11.91	12.36	15.15	30	PASS
11ac(HT20)	CH157	11.89	12.22	15.07	30	PASS
11ac(HT20)	CH165	12.23	12.44	15.35	30	PASS
11ac(HT40)	CH151	11.29	12.47	14.93	30	PASS
11ac(HT40)	CH159	11.39	12.48	14.98	30	PASS
11ac(HT80)	CH155	11.31	11.83	14.59	30	PASS

Note : G<sub>ANT</sub>=2dBi, Array Gain=10log(N<sub>ANT</sub>/N<sub>SS</sub>)=3.01dBi, Directional Gain=G<sub>ANT</sub> + Array Gain=5.01dBi,

5.01dBi <6dBi so limit=30dBm/MHz

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4.1. Test Specification	
Fest Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02 Section C
Limit:	>500kHz
Test Setup:	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>KDB789033 D02 General UNII Test Procedures New Rules v02 Section C</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

### 6.4.2. Test Instruments

RF Test Room									
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018					
RF Cable (9KHz-40GHz)	тст	RE-03	N/A	Sep. 27, 2018					
Antenna Connector	ТСТ	RFC-03	N/A	Sep. 27, 2018					

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

Report No.: TCT171205E034

ncy Ba () 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6 dB ndwidth MHz) 15.47 15.35 16.04 15.11 15.38 15.08	Limit (N 0.5 0.5 0.5 0.5 0.5	)	Result PASS PASS PASS PASS
	15.47 15.35 16.04 15.11 15.38	0.5 0.5 0.5		PASS PASS
	16.04 15.11 15.38	0.5		PASS
	15.11 15.38	0.5	)	
; · · · · · · · · · · · · · · · · · · ·	15.38			PASS
5 · ·		0.5		
; ;	15.08			PASS
	10.00	0.5		PASS
	35.17	0.5	()	PASS
5   3	35.05	0.5		PASS
; .	15.12	0.5		PASS
	15.13	0.5	()	PASS
	15.11	0.5		PASS
; ;	35.15	0.5		PASS
; ;	35.10	0.5		PASS
	76.48	0.5	(	PASS
)		15.11 35.15 35.10 76.48	15.11         0.5           35.15         0.5           35.10         0.5           76.48         0.5	15.11       0.5         35.15       0.5         35.10       0.5         76.48       0.5

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### ANT 1

Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a	CH149	5745	15.34	0.5	PASS
11a	CH157	5785	15.12	0.5	PASS
11a	CH165	5825	15.07	0.5	PASS
11n(HT20)	CH149	5745	15.45	0.5	PASS
11n(HT20)	CH157	5785	14.19	0.5	PASS
11n(HT20)	CH165	5825	13.86	0.5	PASS
11n(HT40)	CH151	5755	35.17	0.5	PASS
11n(HT40)	CH159	5795	35.28	0.5	PASS
11ac(HT20)	CH149	5745	15.43	0.5	PASS
11ac(HT20)	CH157	5785	15.10	0.5	PASS
11ac(HT20)	CH165	5825	15.14	0.5	PASS
11ac(HT40)	CH151	5755	35.44	0.5	PASS
11ac(HT40)	CH159	5795	35.63	0.5	PASS
11ac(HT80)	CH155	5775	76.45	0.5	PASS

Test plots as follows:

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