# TEST REPORT

CT 通测检测 TESTING CENTRE TECHNOLOGY

> FCC ID: 2AQ4G-SSB700T Product: Tablet PC Model No.: SSB700T Additional Model No.: N/A Trade Mark: Maze speed Report No.: TCT190529E027 Issued Date: Jun. 24, 2019

> > Issued for:

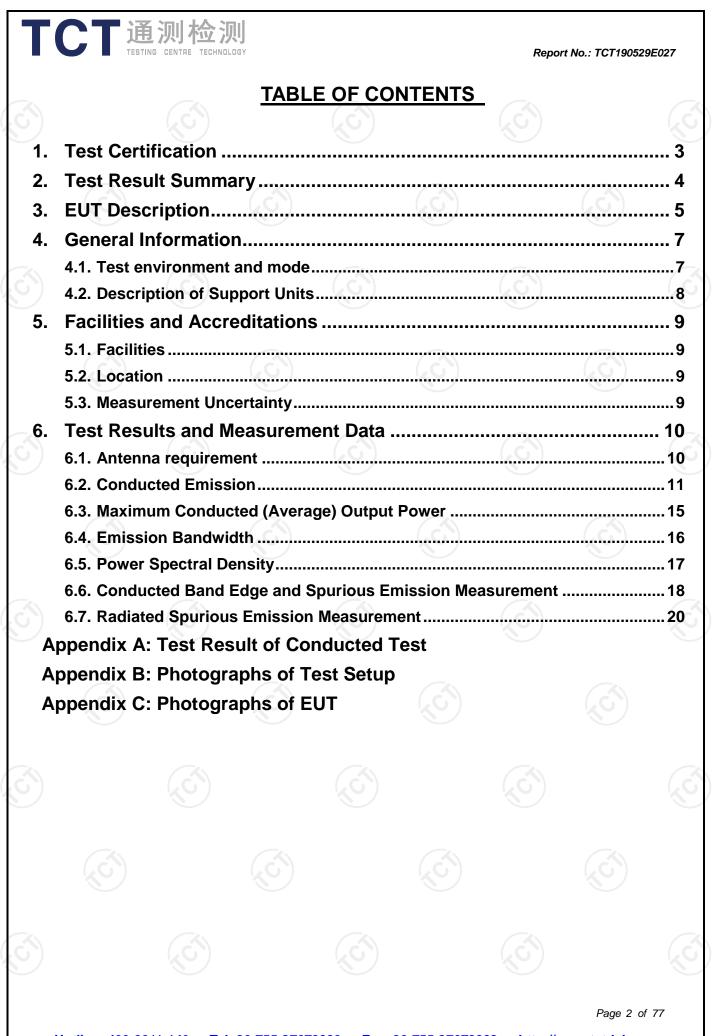
Shenzhen Link Win Technology Co., Ltd 9F, Zhengqilong Industrial Building, 1st Rd Gushu, Xixiang, Bao'an, Shenzhen, China

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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### **Test Certification** 1.

Product:	Tablet PC
Model No.:	SSB700T
Additional Model No.:	N/A
Trade Mark:	Maze speed
Applicant:	Shenzhen Link Win Technology Co., Ltd
Address:	9F, Zhengqilong Industrial Building, 1st Rd Gushu, Xixiang, Bao'an, Shenzhen, China
Manufacturer:	Shenzhen Link Win Technology Co., Ltd
Address:	9F, Zhengqilong Industrial Building, 1st Rd Gushu, Xixiang, Bao'an, Shenzhen, China
Date of Test:	May 30, 2019 – Jun. 21, 2019
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

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:

Kein Huang

Kevin Huang

**Reviewed By:** 

Beryl Zhao

Approved By:

msn

Tomsin

Date: Jun. 21, 2019 Jun. 24, 2019 Date:



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Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS
ote: 1. PASS: Test item meets the requir 2. Fail: Test item does not meet the 3. N/A: Test case does not apply to 4. The test result judgment is decide	requirement. the test object.	
<ol> <li>PASS: Test item meets the requir</li> <li>Fail: Test item does not meet the</li> <li>N/A: Test case does not apply to</li> </ol>	requirement. the test object.	
<ol> <li>PASS: Test item meets the requir</li> <li>Fail: Test item does not meet the</li> <li>N/A: Test case does not apply to</li> </ol>	requirement. the test object.	
<ol> <li>PASS: Test item meets the requir</li> <li>Fail: Test item does not meet the</li> <li>N/A: Test case does not apply to</li> </ol>	requirement. the test object.	
<ol> <li>PASS: Test item meets the requir</li> <li>Fail: Test item does not meet the</li> <li>N/A: Test case does not apply to</li> </ol>	requirement. the test object.	

# 3. EUT Description

TCT通测检测 TESTING CENTRE TECHNOLOGY

Product:	Tablet PC	
Model No.:	SSB700T	
Additional Model No.:	N/A	
Trade Mark:	Maze speed	
Hardware Version:	V7-3126-V1.0(BGA 2018.09.08)	_
Software Version:	Maze_speed-SSB700T-V1.1-20190624	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))	
Channel Separation:	5MHz	
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)	
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)	
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)	
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps	
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps	
Data speed (IEEE 802.11n):	Up to 150Mbps	
Antenna Type:	Internal Antenna	
Antenna Gain:	1.2dBi	
Power Supply:	Rechargeable Li-ion Battery DC 3.7V	
AC adapter:	Adapter Information: Model: SSB700T Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.5A	

### Operation Frequency each of channel For 802.11b/g/n(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		(xC)

### **Operation Frequency each of channel For 802.11n (HT40)**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	2	4	2427MHz	7	2442MHz		
	-	5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

### 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:

### 802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

### 802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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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 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m 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 (Z axis) are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

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
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
1. For WIFI function, the engineering EUT continuous transmit/receive.	test program was provided and enabled to make

2.According to ANSI C63.10 standards, the test results are both the "worst case" and

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"worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.46% with maximum power setting for all modulations.

# 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	

### 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, 6dB 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

TCT通测检测 TCT通测检测

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		
7	Humidity	±1.0%	



# 6. Test Results and Measurement Data

# 6.1. Antenna requirement

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### **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.

15.247(c) (1)(i) requirement:

10 20 30

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### E.U.T Antenna:

The WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 1.2dBi.



WIFI ANT

0000 00 80 10 60 60 40 30 50 10100 00 80 10 00 20 40 30 50 10 mm

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# 6.2. Conducted Emission

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# 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	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit ( Quasi-peak 66 to 56* 56 60	»			
Reference Plane         40cm       80cm         40cm       80cm         Filter       AC power         Filter       AC power         E.U.T       AC power         E.U.T       EMI         Receiver       EMI         Receiver       EUT: Equipment Under Test         LISN Line Impedence Stabilization Network       Test table height=0.8m						
Test Mode:	Charging + transmittin	Charging + transmitting with modulation				
Test Procedure:	<ol> <li>The E.U.T is 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 emission, the relative positions of equipment and all of the interface cables must be changed according to</li> </ol>					
ANSI C63.10: 2013 on conducted measurement. Test Result: PASS						

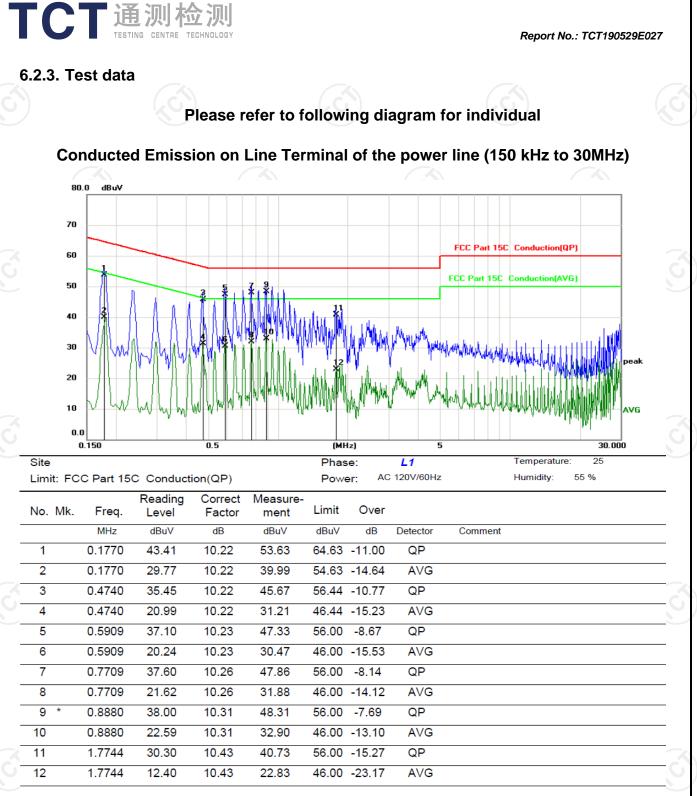
Report No.: TCT190529E027

### 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	Sep. 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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### Note:

Freq. = Emission frequency in MHz

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

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

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

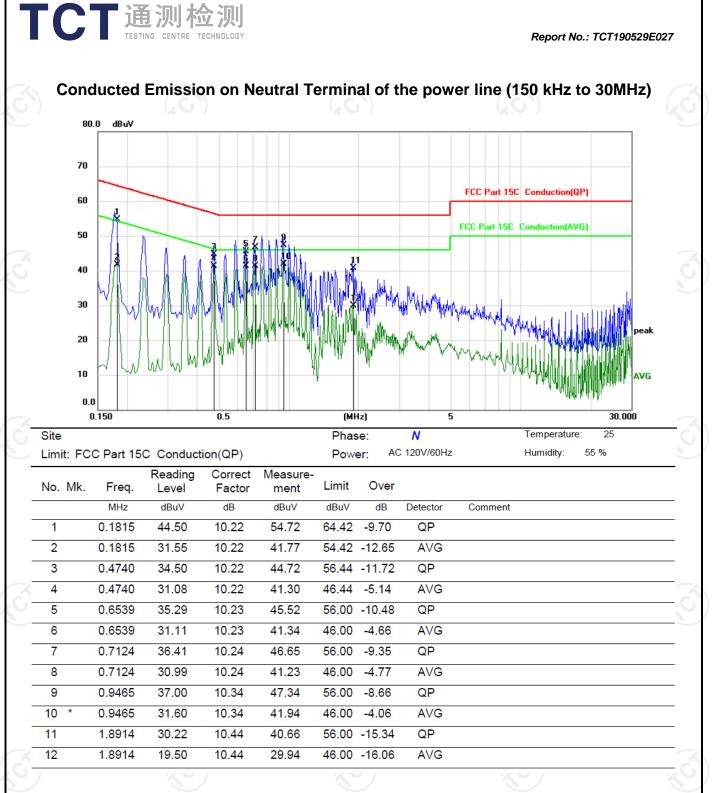
*Limit*  $(dB\mu V) = Limit$  stated in standard

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

Q.P. =Quasi-Peak AVG =average

\* 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) = 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

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

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# 6.3. Maximum Conducted (Average) Output Power

# 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	30dBm				
Test Setup:					
Test Mode:	Spectrum Analyzer         EUT           Transmitting mode with modulation				
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Measure the conducted output power and record the results in the test report.</li> </ol>				
Test Result:	PASS				

### 6.3.2. Test Instruments

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

# 6.4. Emission Bandwidth

# 6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	>500kHz				
Test Setup:					
	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
<ul> <li>Test Procedure:</li> <li>1. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>2. Make the measurement with the spectrum analyz resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to m an accurate measurement. The 6dB bandwidth m be greater than 500 kHz.</li> <li>3. Measure and record the results in the test report.</li> </ul>					
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-26.5GHz)	тст	RE-06	N/A	Sep. 20, 2019		
Antenna Connector	тст	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).

# 6.5. Power Spectral Density

### 6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</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): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW.</li> <li>Detector = RMS, Sweep time = auto couple.</li> <li>Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

# 6.5.2. Test Instruments

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

# 6.6. Conducted Band Edge and Spurious Emission Measurement

# 6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	KDB558074			
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).			
Test Setup:				
	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>			
Test Result:	PASS			

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### 6.6.2. Test Instruments

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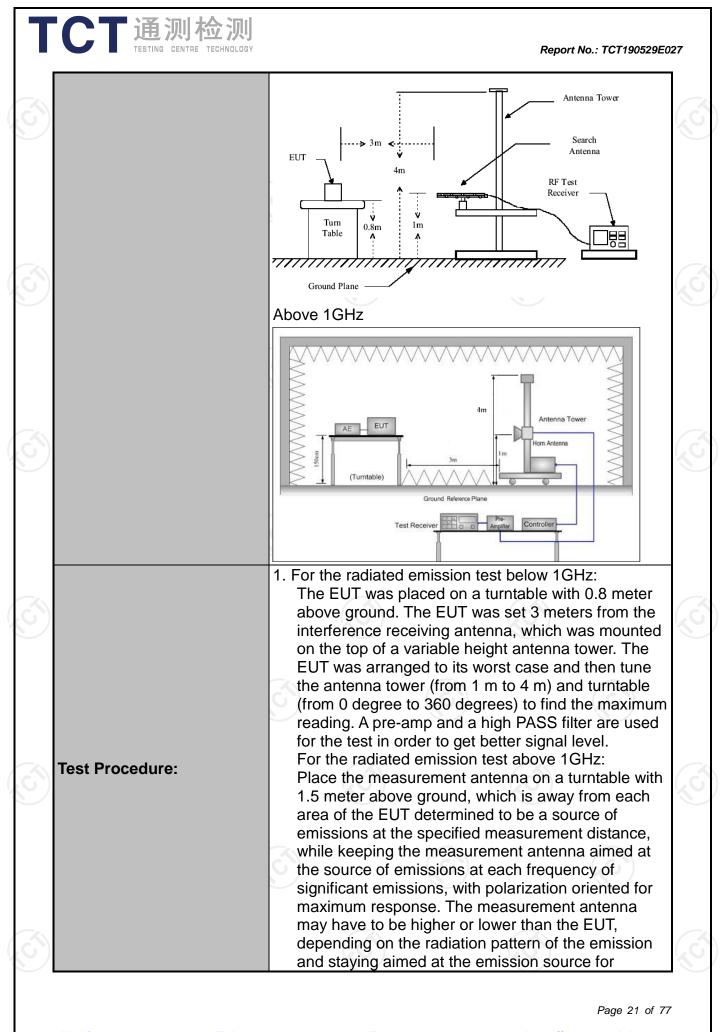
RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 20, 2019		
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 20, 2019		
Antenna Connector	тст	RFC-01	N/A	Sep. 20, 2019		

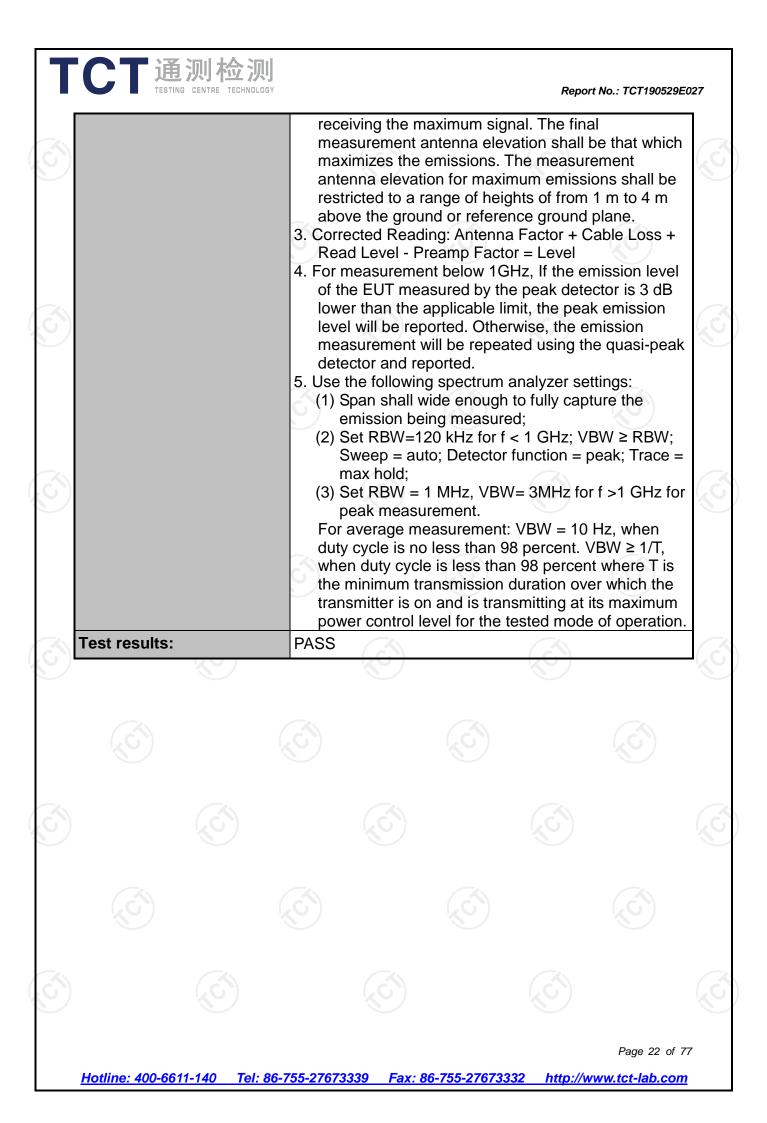
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

# 6.7. Radiated Spurious Emission Measurement

# 6.7.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209					
Test Method:	ANSI C63.10	): 2013	<b>(()</b>		(	$\langle \mathcal{O} \rangle$		
Frequency Range:	9 kHz to 25 (	GHz						
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal &	Horizontal & Vertical						
Operation mode:	Transmitting	Transmitting mode with modulation						
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz	Detector Quasi-peak Quasi-peak		VBW 1kHz 30kHz	Qua	Remark si-peak Value si-peak Value		
Receiver Setup.	30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Р	si-peak Value eak Value erage Value		
	Frequen	-	Field Stre (microvolts	/meter)		asurement nce (meters)		
		0.009-0.490		2400/F(KHz) 24000/F(KHz)		300 30 30		
	<u> </u>		30 100 150		3			
Limit:	216-960 Above 960		200 500		3			
	Ereduency/		ld Strength ovolts/meter)		ice	Detector		
	Above 1GH	<u>z</u>	500 5000	3 3	13)	Average Peak		
	For radiated	emissions	below 30	)MHz	Comm			
_	Computer Pre -Amplifier							
Test setup:	0.Sm				Receiver			
	30MHz to 10	Ground	ridhe					
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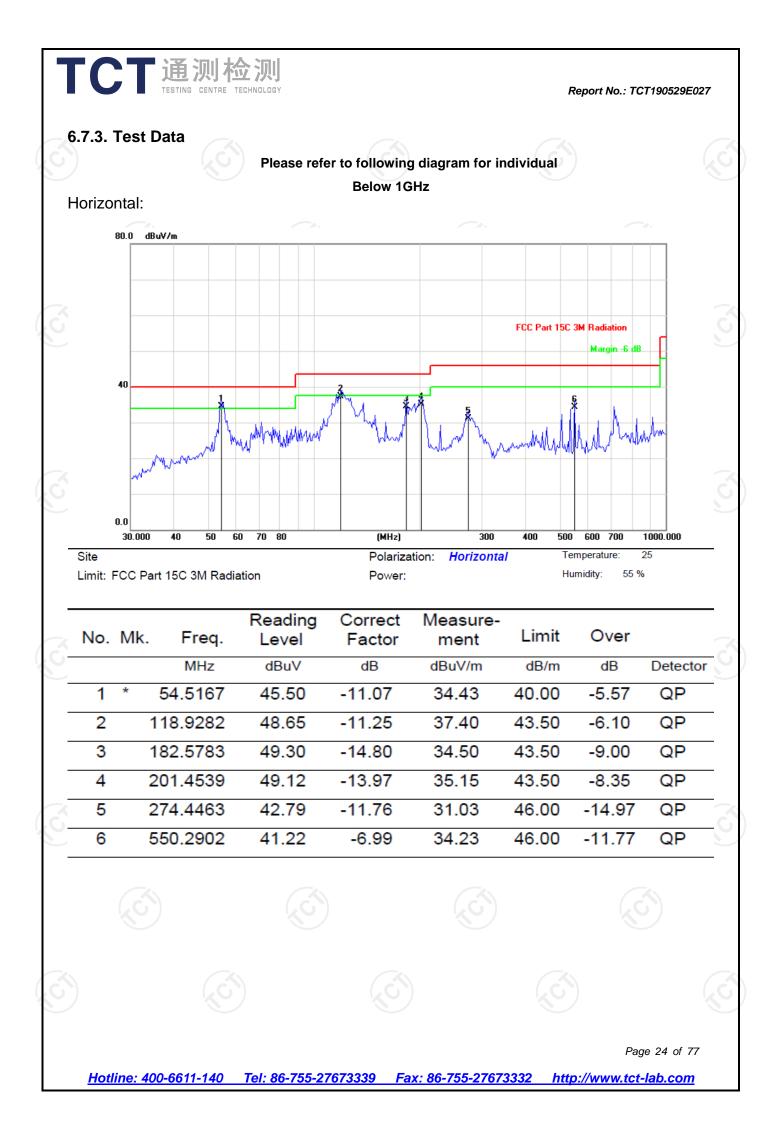




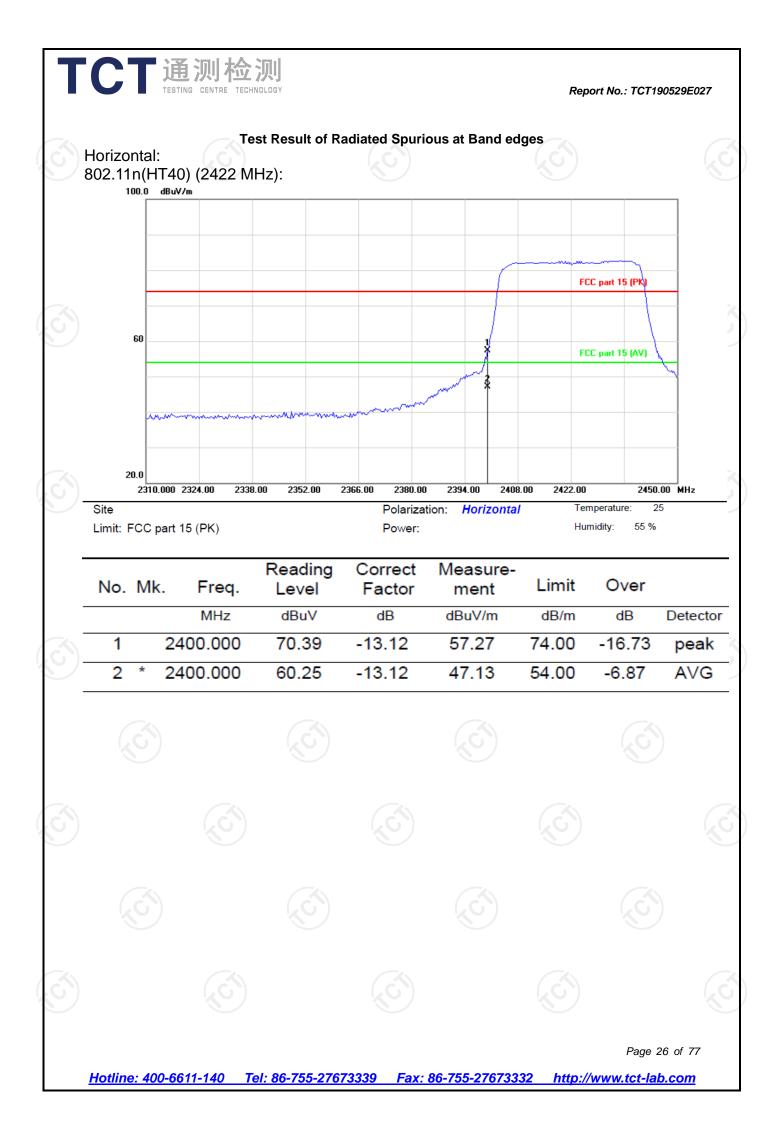
# 6.7.2. Test Instruments

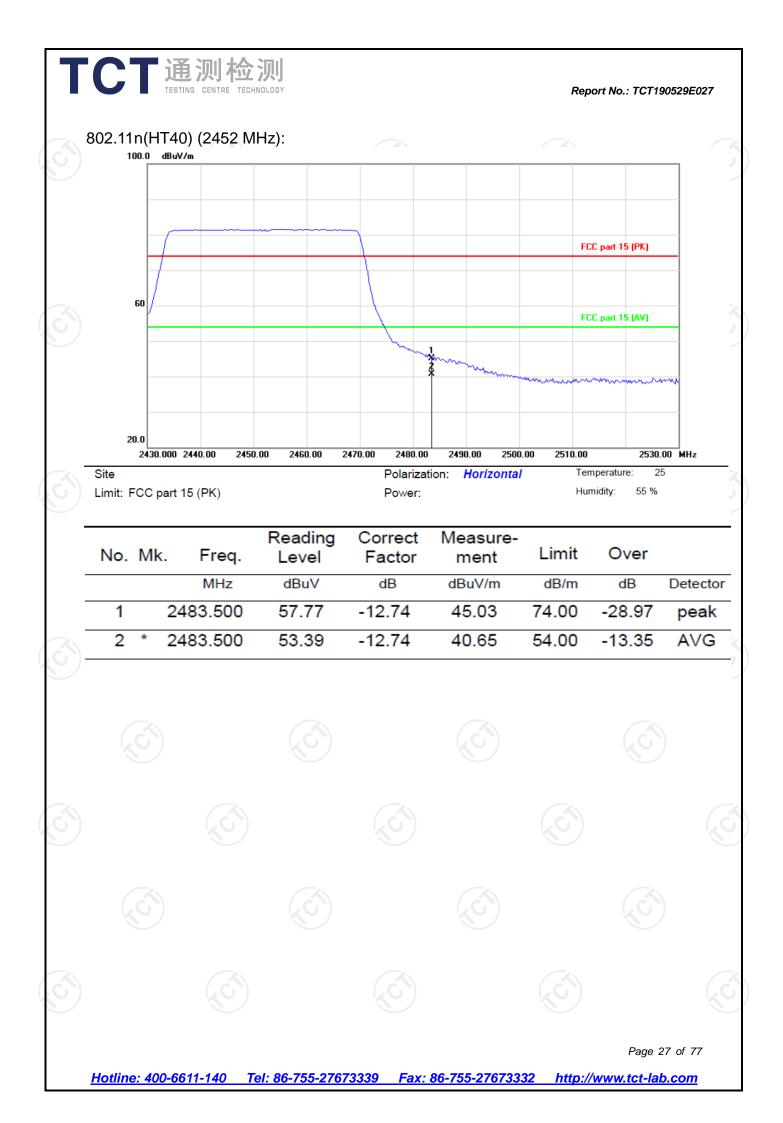
	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Sep. 17, 2019
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 20, 2019
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 16, 2019
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
Antenna Mast	Keleto	RE-AM	N/A	N/A
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
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

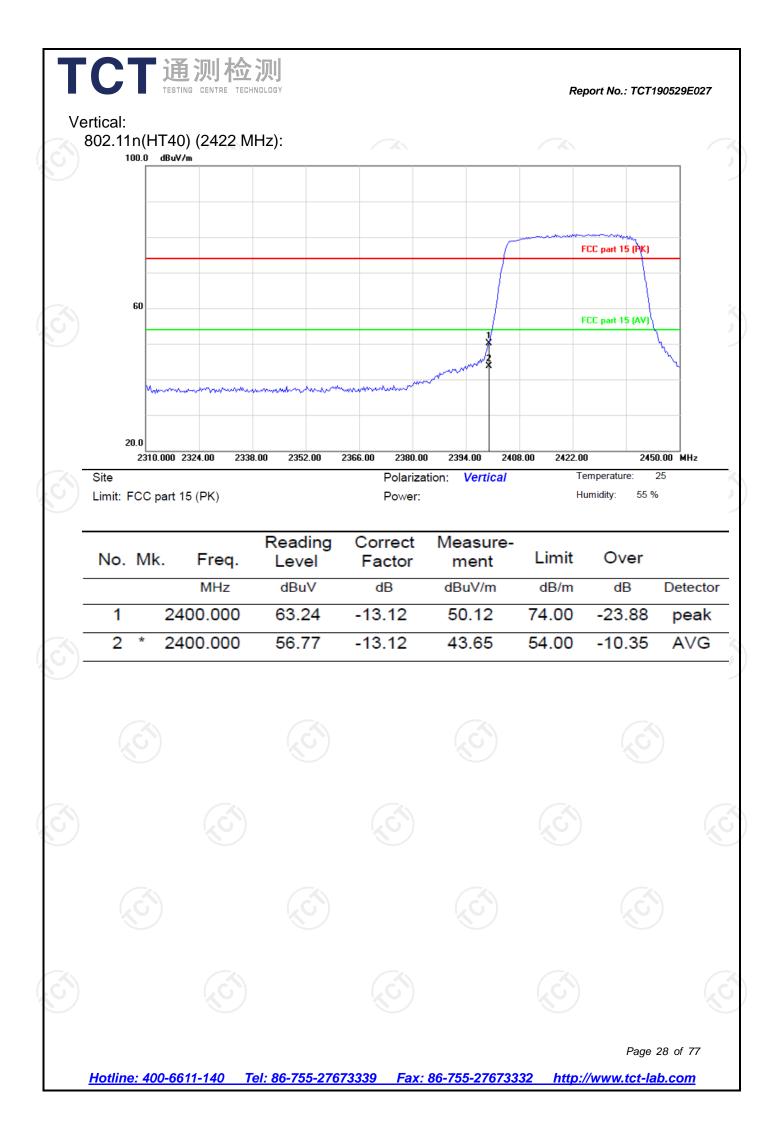
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

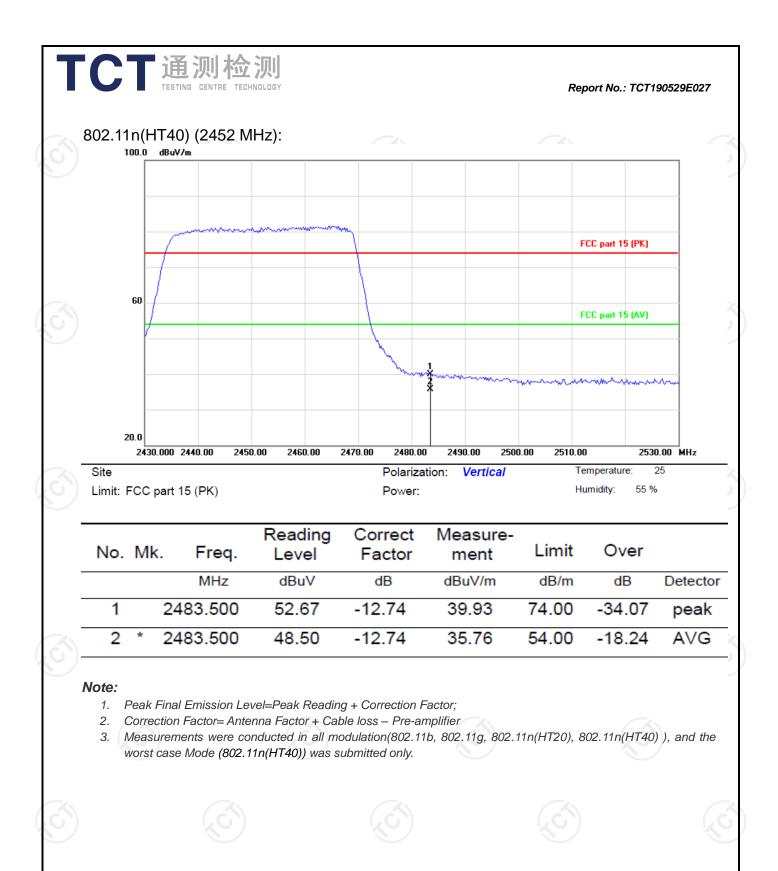


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		80.0	dBuV/m				021	)		
	40 FCC Part 15C 3M Radiation Margin - 6 dB Margin - 6 dB									
							FCC Part 15C		r	
								Margin -6 dB	-1	
		40	Å					5 6		
					/ Nu t	A. L. July		Muh Mine	MM	
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		M	Maymont							
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X		30.00	10 40 50 60	70 80	(MHz)	300	400 500		1000.000	
	Site		Part 15C 3M Radiat	ion	Polarizat Power:	ion: Vertical		emperature: 2 umidity: 55 %	25	
_	No.	Mk	. Freq.	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dB/m	Over dB	Detect	or
_	1	*	54.5167	46.25	-11.07	35.18	40.00	-4.82	QP	
Х- С	2	I	124.0501	51.10	-13.11	37.99	43.50	-5.51	QP	_
-	3		137.8400	50.93	-15.94	34.99	43.50	-8.51	QP	_
-	4		182.5783	44.98	-14.80	30.18	43.50	-13.32	QP	
-	5		550.2902	41.09	-6.99	34.10	46.00	-11.90	QP	
_	6		698.8034	39.06	-5.47	33.59	46.00	-12.41	QP	
^	lote	1.The #	ow frequency, whic	h started from (	OKHZ~30MHZ WS	s pre-scanned a	nd the result	which was 20	)dB lower	than
ľ	vote: 1		ow frequency, whic mit line per 15.31(o			is pre-scanned a	nd the result	which was 20	IdB lower	tnan
	2.		urements were co							
		802.1	1n(HT20), 802.11n	HT40) ), and tr	ie worst case ind	de (Middle chanr	iei and 802."	ind) was subr	nittea oniy	/.











			М	Above Iodulation T	<b>e 1GHz</b> ype: 802.11	lb			
			L	_ow channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4824	Н	48.14		0.75	48.89		74	54	-5.11
7236	СH	39.52	μ. C	9.87	49.39	0	74	54	-4.61
	Ĥ								
4824	V	47.84		0.75	48.59		74	54	-5.41
7236	V	39.36		9.87	49.23		74	54	-4.77
G )	V			( . C			$(-\Theta)$		( , (
			•	J.					<u> </u>

			Mi	iddle chanr	nel: 2437MF	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Ч	48.06	<u> </u>	0.97	49.03	<u> </u>	74	54	-4.97
7311	Н	40.12		9.83	49.95		74	54	-4.05
	Н								
4874	V	47.63		0.97	48.60		74	54	-5.40
7311	V	40.71		9.83	50.54		74	54	-3.46
	V				/ <u></u>				

			F	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Н	47.95		1.18	49.13		74	54	-4.87
7386	Н	39.48		10.07	49.55		74	54	-4.45
	Н								
									( 6
4924	V	46.67		1.18	47.85		74	54	-6.15
7386	V	38.25		10.07	48.32		74	54	-5.68
	V								

### Note:

TCT通测检测 TESTING CENTRE TECHNOLOGY

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ 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 25GHz.

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.

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				odulation T		0			
-			L	ow channe	I: 2412 MH	Z			
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissic	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
4824	Н	48.73		0.75	49.48		74	54	-4.52
7236	Н	39.67		9.87	49.54		74	54	-4.46
	H								
	$\langle \mathbf{G}^{*} \rangle$			)	(	$\langle O \rangle$			
4824	V	47.82		0.75	48.57		74	54	-5.43
7236	V	40.05		9.87	49.92		74	54	-4.08
	V								
-1.		<u>_</u>			7.				

đ			(G)	Μ	iddle chanr	nel: 2437MF	Ηz	(.G)		
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
I	4874	Н	48.16		0.97	49.13		74	54	-4.87
ļ	7311	Н	40.32		9.83	50.15		74	54	-3.85
Ţ	/	Сн		<u>ko</u>					<u> </u>	
Ţ	1					<u>.</u>		<u>.</u>		
Ţ	4874	V	47.48		0.97	48.45		74	54	-5.55
Ī	7311	V	39.96		9.83	49.79		74	54	-4.21
		V				×				(
				-						

			F	ligh channe	el: 2462 MH	Z			6
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	47.68		1.18	48.86		74	54	-5.14
7386	Н	38.72		10.07	48.79		74	54	-5.21
	H								
4924	V	47.54		1.18	48.72		74	54	-5.28
7386	V	39.23		10.07	49.30		74	54	-4.70
/	V			🔨	2 /				🔨

### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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 25GHz.

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.

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			Modu	lation Type:	: 802.11n (ł	HT20)			
			L	ow channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4824	Н	47.97		0.75	48.72		74	54	-5.28
7236	Н	39.58		9.87	49.45		74	54	-4.55
	H								
(	$\langle G \rangle$			)	()	$\langle \mathbf{O} \rangle$			
4824	V	49.13		0.75	49.88		74	54	-4.12
7236	V	40.06		9.87	49.93		74	54	-4.07
	V								
-2.									

$\mathbf{G}$		(G)	M	liddle chann	nel: 2437MF	Ηz	$(\mathbf{G})$		
Frequen (MHz)	cy Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	48.62		0.97	49.59		74	54	-4.41
7311	Н	38.74		9.83	48.57		74	54	-5.43
	KO H		KO /	/		<u>0</u> +		K	
							<u>.</u>		
4874	V	47.25		0.97	48.22		74	54	-5.78
7311	V	39.31		9.83	49.14		74	54	-4.86
	V			(					(

			H	ligh channe	l: 2462 MH	Z			6
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Н	48.55		1.18	49.73		74	54	-4.27
7386	H	40.14		10.07	50.21		74	54	-3.79
	H								
4924	V	46.98		1.18	48.16		74	54	-5.84
7386	V	39.44		10.07	49.51		74	54	-4.49
/	V			X	2 /				X

### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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 25GHz.

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.

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				ow channe	1. 2422 MH	7			
_		Peak		Correction	Emissic				
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	45.86		0.66	46.52		74	54	-7.48
7266	H	38.49		9.50	47.99	( <b>*</b>	74	54	-6.01
(	<b>CH</b>				()	S-			
					×.		•		
4824	V	44.79		0.66	45.45		74	54	-8.55
7236	V	35.61		9.50	45.11		74	54	-8.89
	V				×				
		(G)		(.0			(.G)		(
			Μ	iddle chann	nel: 2437MF	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	46.36		0.99	47.35		74	54	-6.65
7311	C H	37.58		9.85	47.43		74	54	-6.57
	Н								
4874	V	45.17		0.99	46.16		74	54	-7.84
7311	V	37.26		9.85	47.11		74	54	-6.89
)	V			(	)				(
			•	J.		•			
			F	ligh channe	el: 2452 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	Н	45.98		1.33	47.31		74	54	-6.69
7356	Н	36.05		10.22	46.27		74	54	-7.73
	11	-							-

4904 V 43.94 1.33 45.27 74 54 -8.73 --------V 74 54 -7.06 7356 36.72 ---10.22 46.94 ---V -------------------------------

### Note:

Н

TCT通测检测 TESTING CENTRE TECHNOLOGY

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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 25GHz.

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.

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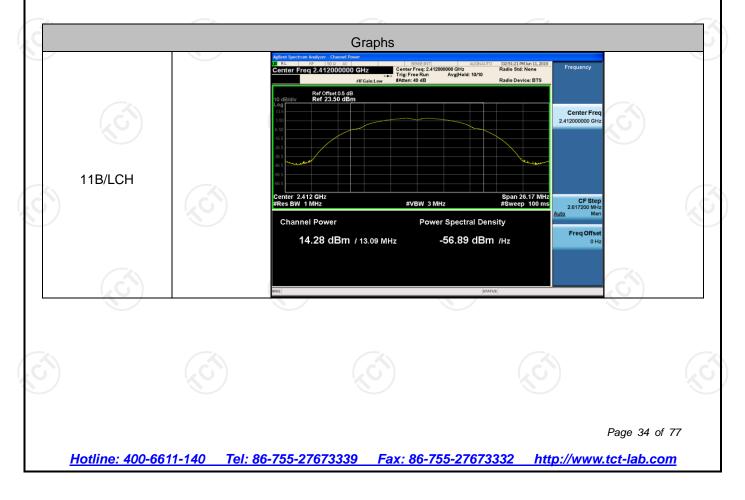
# Appendix A: Test Result of Conducted Test Conducted Average Output Power

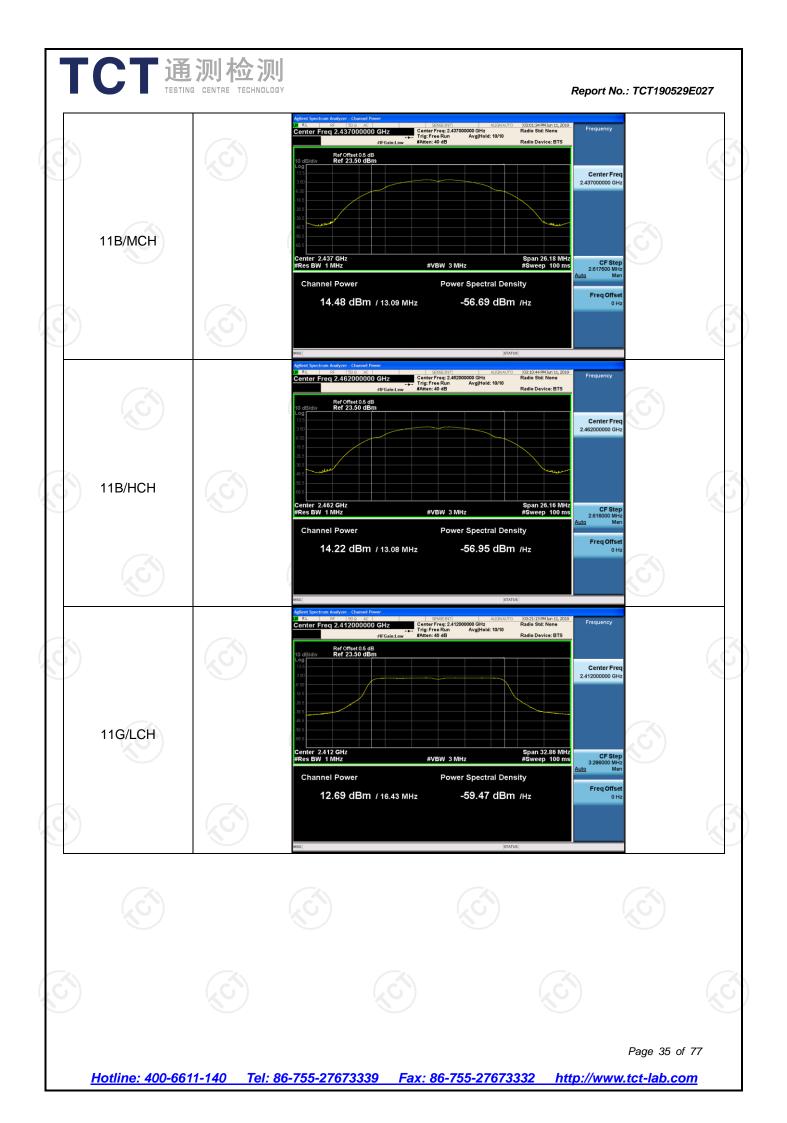
### **Result Table**

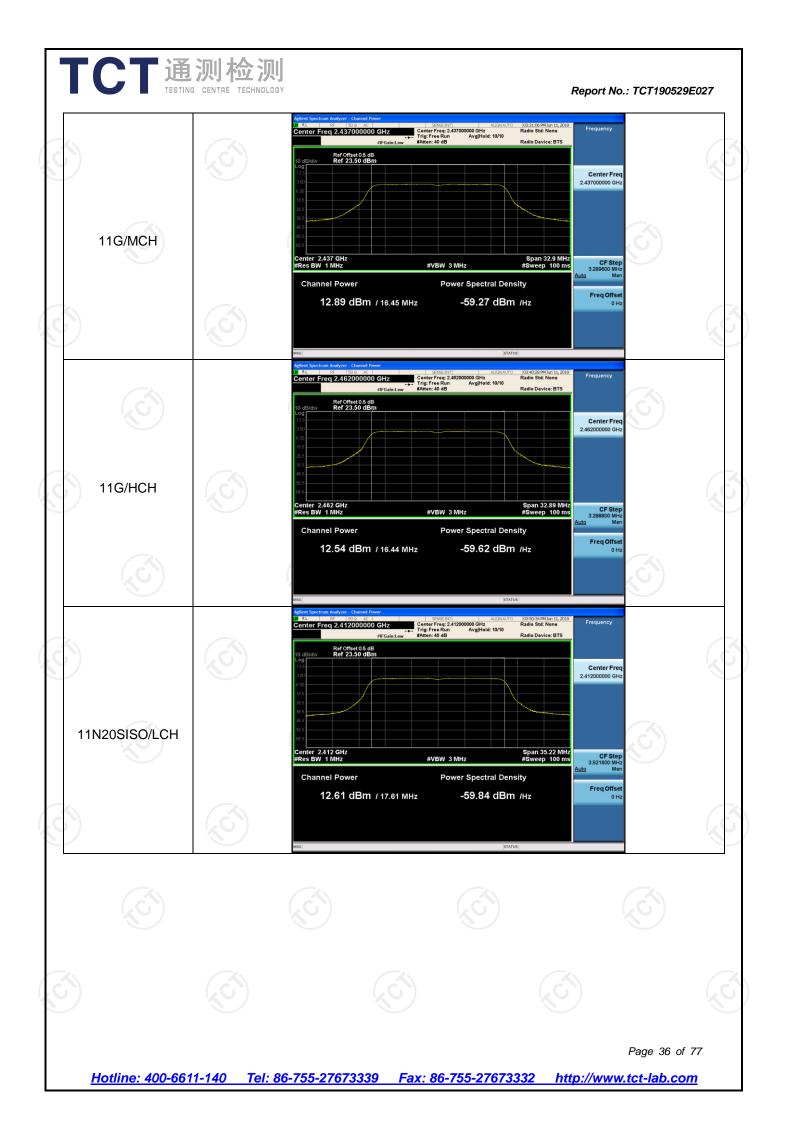
TCT通测检测 TECTIM CENTRE TECHNOLOGY

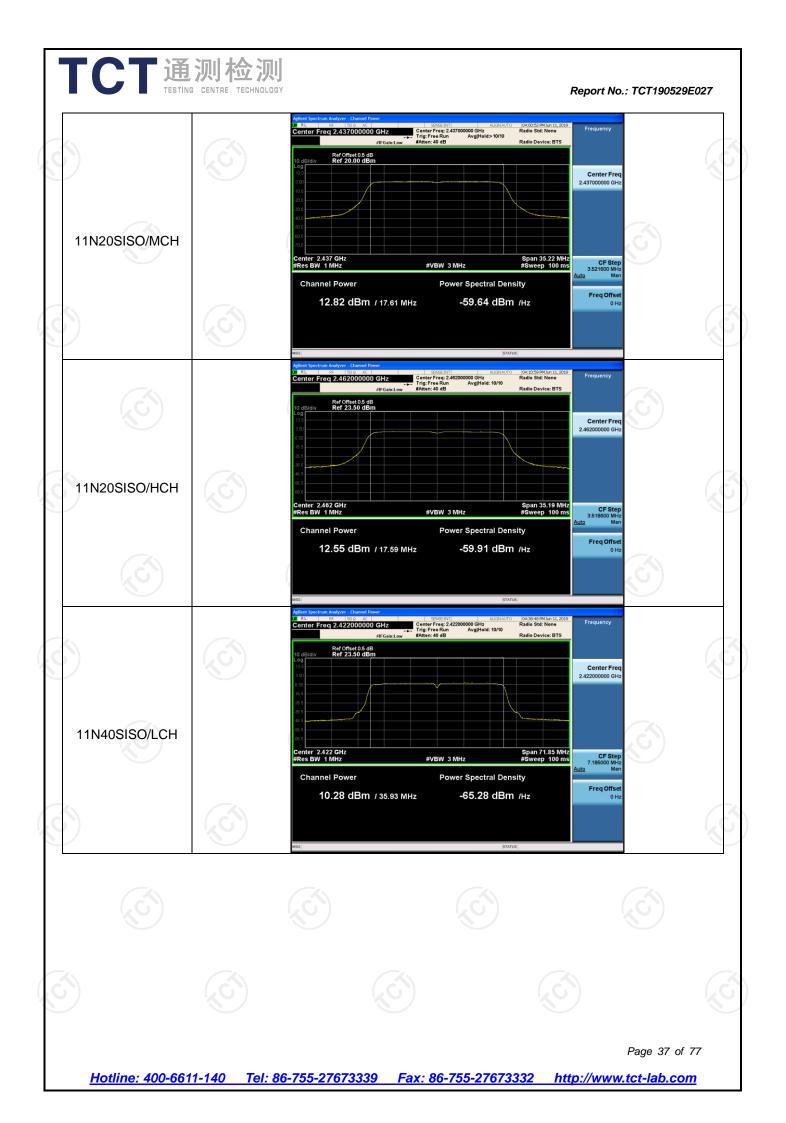
	$(\mathbf{C})$	$(\mathcal{G})$	
Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	14.28	PASS
11B	МСН	14.48	PASS
11B	НСН	14.22	PASS
11G	LCH	12.69	PASS
11G	МСН	12.89	PASS
11G	НСН	12.54	PASS
11N20SISO	LCH	12.61	PASS
11N20SISO	МСН	12.82	PASS
11N20SISO	НСН	12.55	PASS
11N40SISO	LCH	10.28	PASS
11N40SISO	МСН	10.51	PASS
11N40SISO	HCH	10.49	PASS

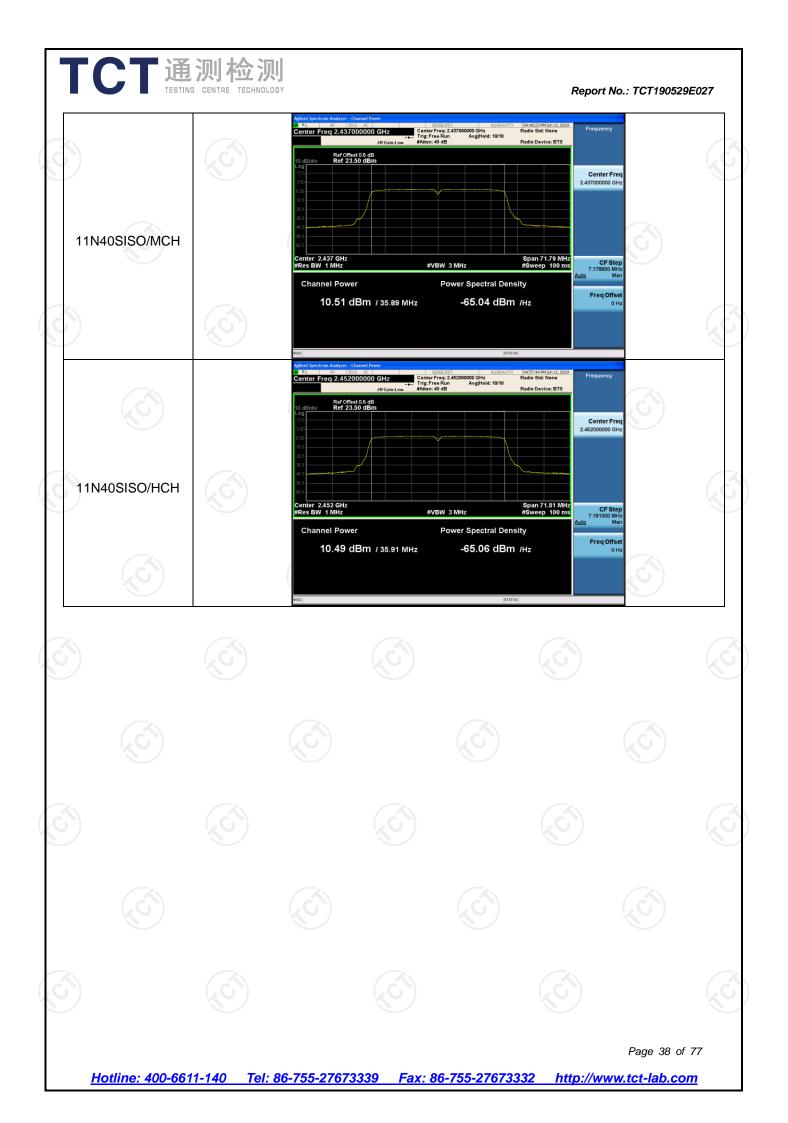
### **Test Graph**













# 6dB Occupied Bandwidth

### **Result Table**

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B G	LCH	8.089	13.086	PASS
11B	MCH	8.076	13.088	PASS
11B	НСН	8.538	13.080	PASS
11G	LCH	16.33	16.430	PASS
11G	МСН	16.37	16.448	PASS
11G	HCH	16.35	16.444	PASS
11N20SISO	LCH	17.53	17.608	PASS
11N20SISO	MCH	17.56	17.608	PASS
11N20SISO	HCH	17.57	17.593	PASS
11N40SISO	LCH	35.44	35.925	PASS
11N40SISO	МСН	35.33	35.894	PASS
11N40SISO	НСН	35.65	35.905	PASS

Test Graph



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