# TEST REPORT

**ГСТ**通测检测 TESTING CENTRE TECHNOLOGY

> FCC ID: SZRHD5-600 Product: Digital Video Recorder Model No.: HD5-600 Additional Model No.: N/A

Trade Mark: RCEI Report No.: TCT161117E010 Issued Date: Dec. 09, 2016

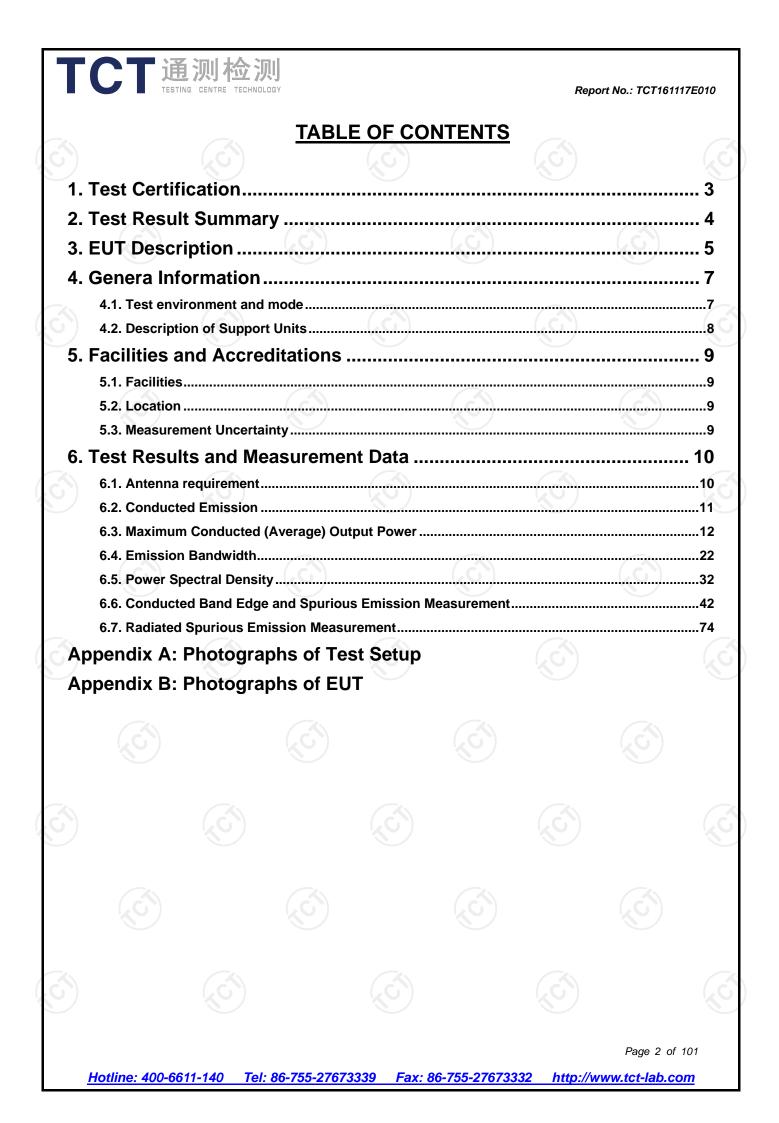
Issued for:

Radio Engineering Industries Inc. 6534 L Street Omaha, Nebraska 68117, United States

Issued By:

Shenzhen Tongce Testing Lab. 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China TEL: +86-755-27673339 FAX: +86-755-27673332

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Г	通测检测	
	TESTING CENTRE TECHNOLOGY	

## 1. Test Certification

Product:	Digital Video Recorder	
Model No.:	HD5-600	
Additional Model No.:	N/A	
Applicant:	Radio Engineering Industries Inc.	
Address:	6534 L Street Omaha, Nebraska 68117, United States	
Manufacturer:	Radio Engineering Industries Inc.	
Address:	6534 L Street Omaha, Nebraska 68117, United States	
Date of Test:	Nov. 17 – Dec. 08, 2016	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05 KDB 662911 D01 Multiple Transmitter Output v02r01	
		N

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.

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S					
	Tested By:	J'm Wang	Date:	Dec. 08, 2016	
S		Jin Wang	<u>5</u> ) –	Ś	
	Reviewed By:	Zonthan	Date:	Dec. 09, 2016	
		Joe Zhou			
	Approved By:	Tomsin	Date:	Dec. 09, 2016	
		Tomsin	Ś	Ś	
				Page 3 of	101
ŀ	Hotline: 400-6611-140	Tel: 86-755-27673339	Fax: 86-755-2767333	2 http://www.tct-lab.c	<u>om</u>

	ult Sum					
Requirem	nent		CFR 47 Se	ction		Result
Antenna requ	iirement	§	§15.203/§15	.247 (c)		PASS
AC Power Line ( Emissic			§15.20	7		N/A
Conducted Out	put Power		§15.247 (I	b)(3)		PASS
6dB Emission E	Bandwidth		§15.247 (a	a)(2)	S	PASS
Power Spectra	l Density		§15.247	(e)		PASS
Band Ed	lge		§15.247	(d)		PASS
Spurious Er	mission		§15.205/§1	5.209		PASS
<ol> <li>PASS: Test item r</li> <li>Fail: Test item do</li> <li>N/A: Test case do</li> <li>N/A: The test result juct</li> </ol>	pes not apply to	the test obje	ect.	d.		
2. Fail: Test item do 3. N/A: Test case do	pes not apply to	the test obje	ect.	d.		
2. Fail: Test item do 3. N/A: Test case do	pes not apply to	the test obje	ect.			
2. Fail: Test item do 3. N/A: Test case do	pes not apply to	the test obje	ect.			
2. Fail: Test item do 3. N/A: Test case do	pes not apply to	the test obje	ect.			

## 3. EUT Description

Product Name:	Digital Video Recorder	N.	
Model :	HD5-600		
Additional Model:	N/A		
Trade Mark:	REI	_	
Trade Mark:	N/A	(ĉ	
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)	ulation Technology: Orthogonal Frequency Division Multiplexing(OEDM)		
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 300Mbps		
Antenna Type:	External antenna		
Antenna Gain:	4.5dBi		
Power Supply:	DC 12V		

#### **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		

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
	- (	5	2432MHz	8	2447MHz	-	
3	2422MHz	6	2437MHz	9	2452MHz	$(\mathbf{x}^{\mathbf{G}})$	

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#### 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)

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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

#### **Genera Information** 4.

## 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 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 Nas 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
"worst setup" 1Mbps for 802.11b, 6Mb	he test results are both the "worst case" and ops for 802.11g, 6.5Mbps for 802.11n(H20). Duty s 98.5% with maximum power setting for all

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http://www.tct-lab.com

## 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
Lead-acid Battery	DC12VED	/	1	/

Note:

Hotline: 400-6611-140

Tel: 86-755-27673339

Fax: 86-755-27673332

- 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.

## 5. Facilities and Accreditations

## 5.1. Facilities

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

• FCC - Registration No.: 572331

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

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

## 5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China Tel: 86-755-36638142

## 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 %.

Connu					
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)	<b>±</b> 4.28dB			
6	Temperature	±0.1°C			
7	Humidity	±1.0%			



## 6. Test Results and Measurement Data

## 6.1. Antenna requirement

#### Standard requirement:

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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:

(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 EUT has two external antennas which is only the antenna type used, and the best case gains of the both antennas are 4.5dBi.



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Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.4:2014					
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Limits:	Frequency range (MHz)         Limit (dBuV)           0.15-0.5         66 to 56*         56 to 4           0.5-5         56         46           5-30         60         50					
		nce Plane				
Test Setup:	E.U.T AC pov	EMI Receiver	— AC power			
	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	Network				
Test Mode:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization					

TCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT161117E010

## 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB558074, KDB662911				
Limit:	30dBm				
Test Setup:					
Teet Meder	Spectrum Analyzer				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	<ol> <li>The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.</li> <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	Date of Cal.	Due Date			
Spectrum Analyzer	Agilent	N9020A	Aug. 13, 2016	Aug. 12, 2017			
RF cable	тст	RE-06	Aug. 13, 2016	Aug. 12, 2017			
Antenna Connector	тст	RFC-01	Aug. 13, 2016	Aug. 12, 2017			

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

Report No.: TCT161117E010



#### 6.3.3. Test Data

Configuration IEEE 802.11b/ Antenna 1+Antenna 2						
Test channel	Maximum Cond Output Po	· • • /	Limit (dBm)	Result		
	Antenna 1	Antenna 2				
Lowest	12.38	12.22	30	PASS		
Middle	12.15	10.85	30	PASS		
Highest	12.27	10.83	30	PASS		

#### Configuration IEEE 802.11g/ Antenna 1+Antenna 2

5	5				
Test channel	Maximum Cond Output Por	· • /	Limit (dBm)	Result	
	Antenna 1	Antenna 2			
Lowest	9.95	10.44	30	PASS	
Middle	9.98	9.75	30	PASS	
Highest	9.43	9.73	30	PASS	

#### Configuration IEEE 802.11n(H20)/ Antenna 1+Antenna 2

Test channel		Conducted (A ut Power (dB	Limit (dBm)	Result		
	Antenna 1	Antenna 2	Total			
Lowest	8.61	10.19	12.48	28.49	PASS	
Middle	8.35	9.54	12.00	28.49	PASS	
Highest	8.6	9.62	12.15	28.49	PASS	

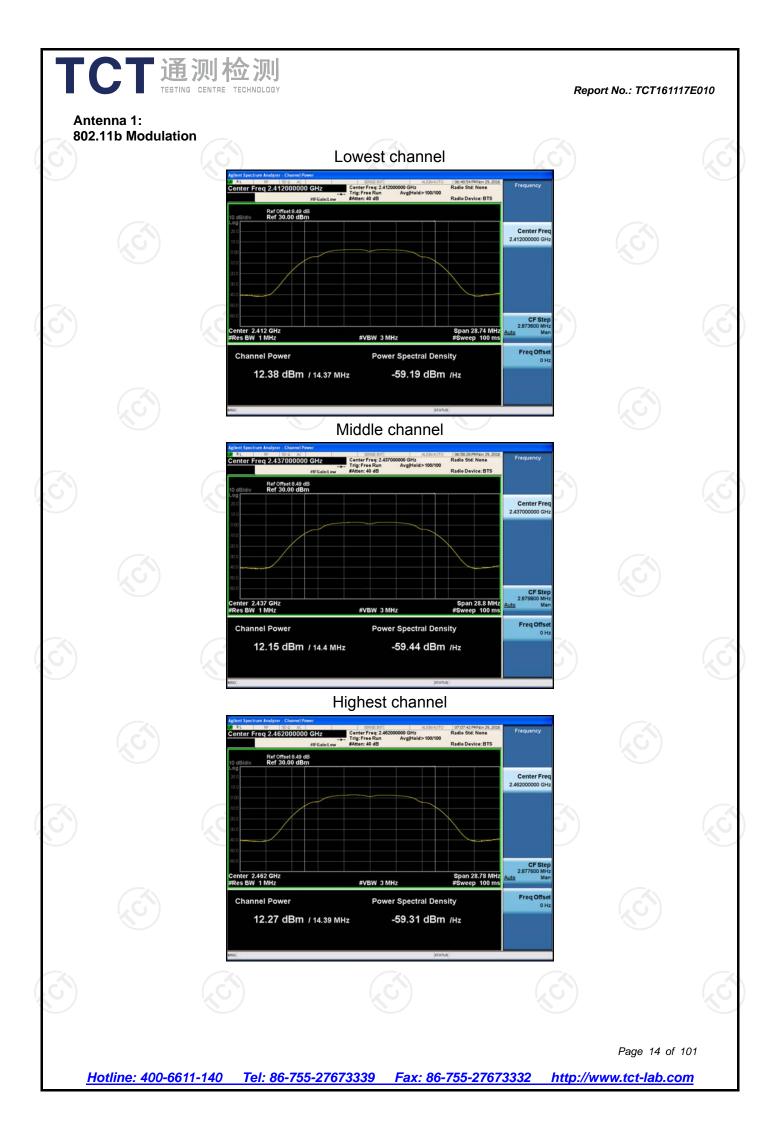
#### Configuration IEEE 802.11n(H40)/ Antenna 1+Antenna 2

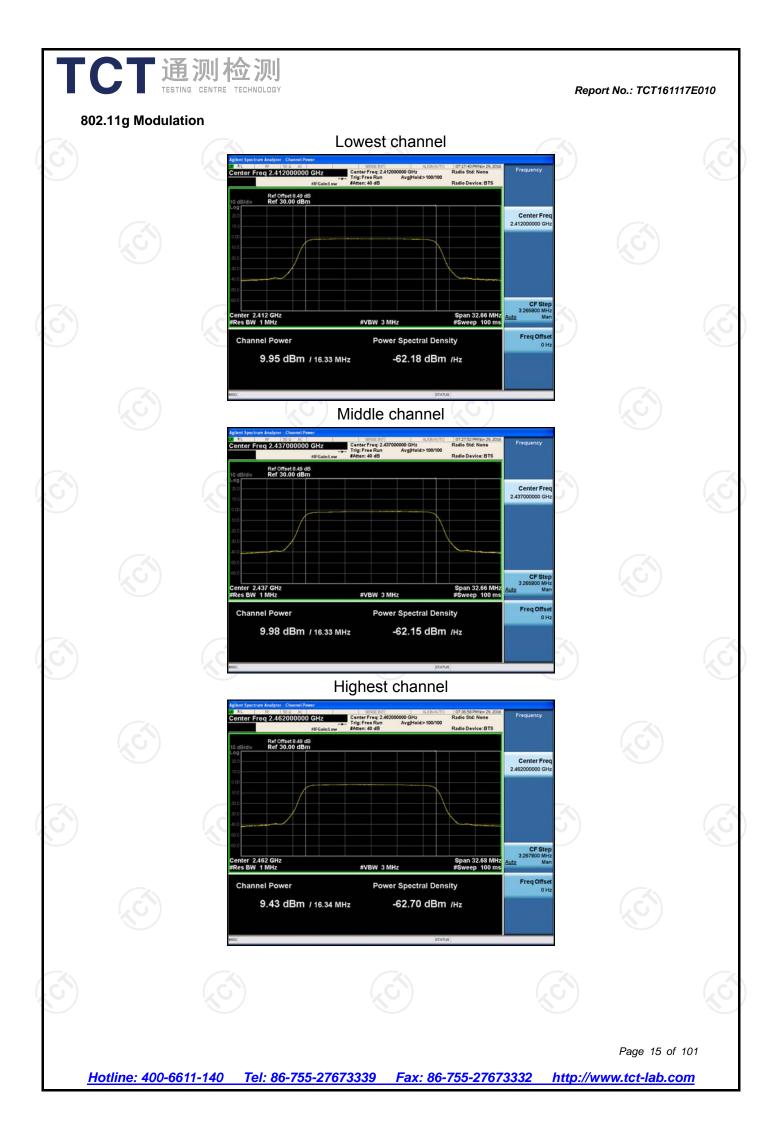
Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	8.73	10.09	12.47	28.49	PASS
Middle	8.84	9.84	12.38	28.49	PASS
Highest	8.96	10.12	12.59	28.49	PASS

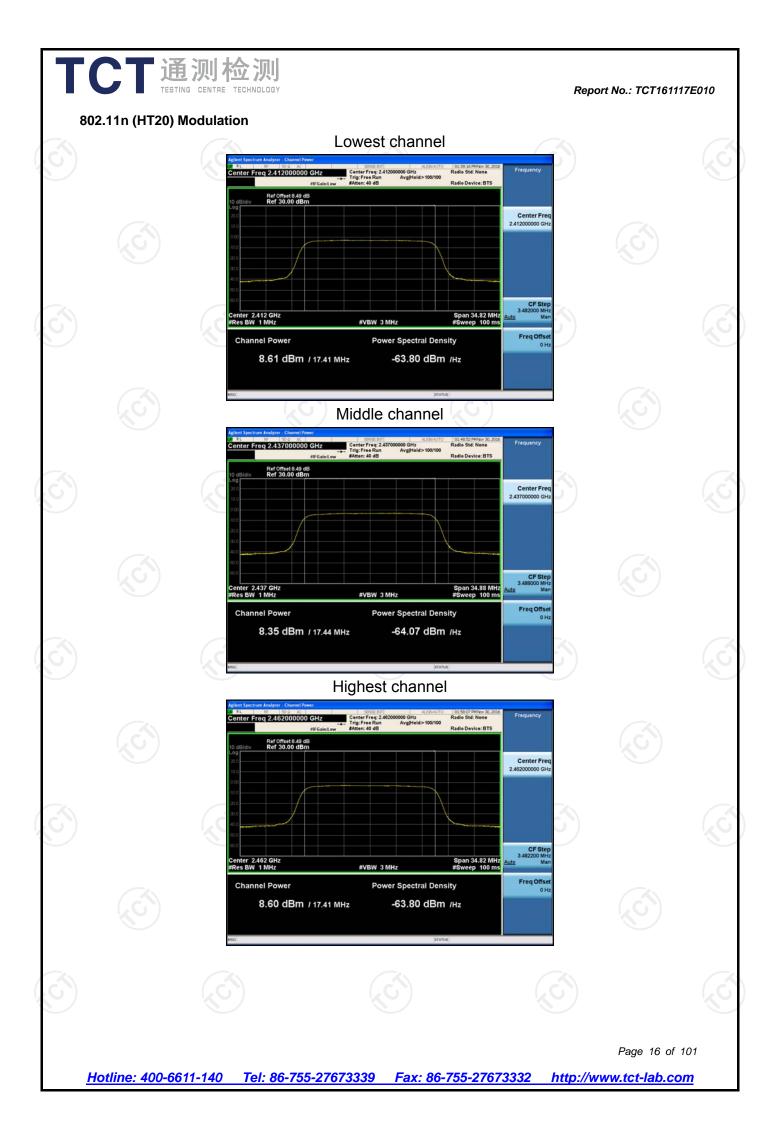
Note: The 802.11n mode supports MIMO, G<sub>ANT</sub> =4.5dBi, Array Gain=10log(N<sub>ANT</sub>/N<sub>SS</sub>)=3.01dBi

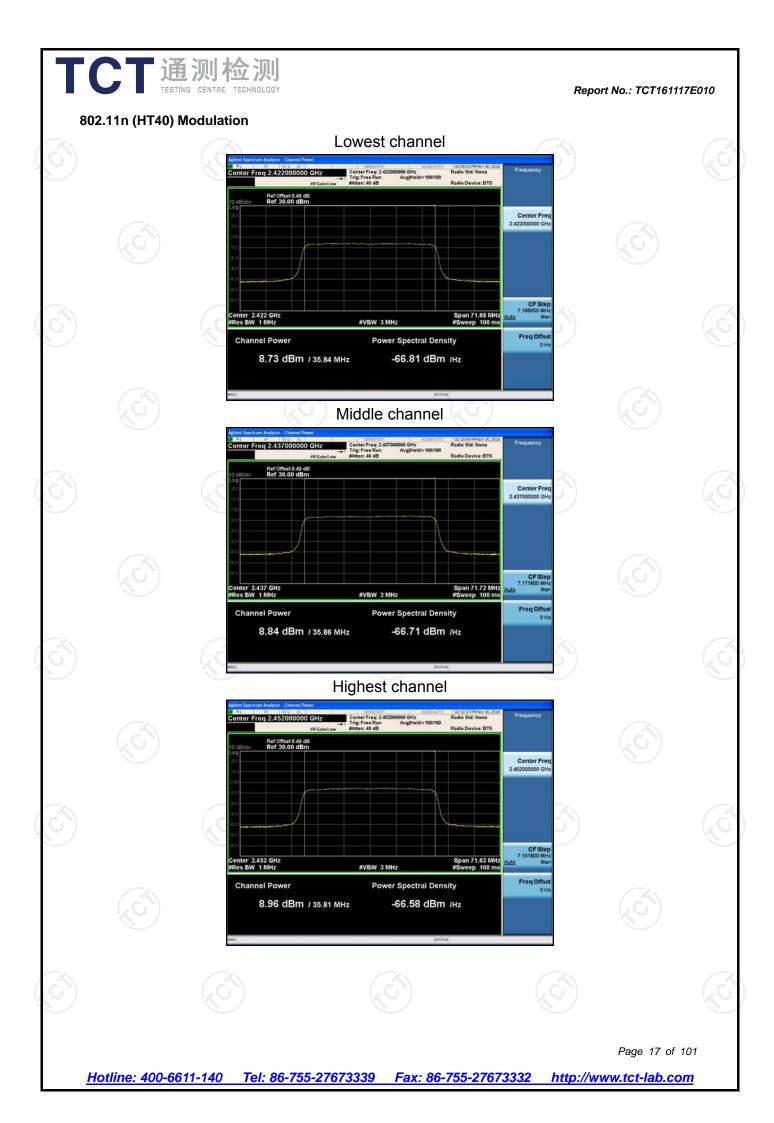
Directional Gain=G<sub>ANT</sub> + Array Gain=7.51dBi, So limit=30-(7.51-6)=28.49dBm

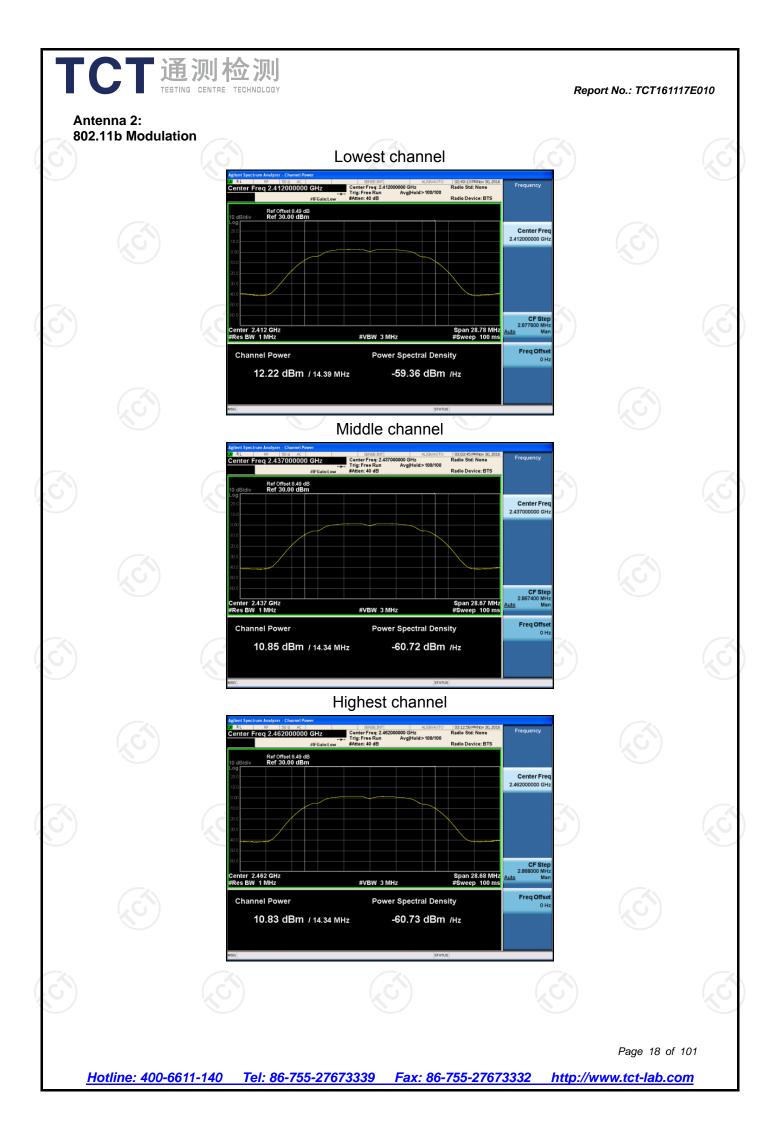
Test plots as follows:

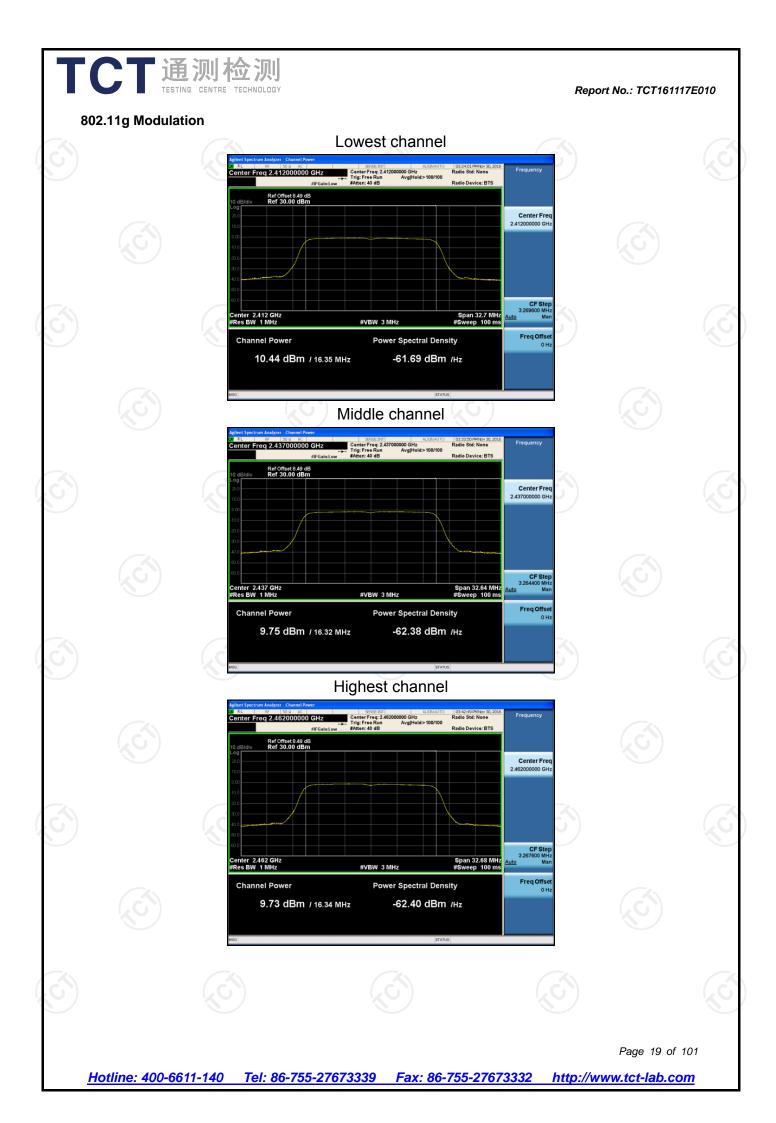


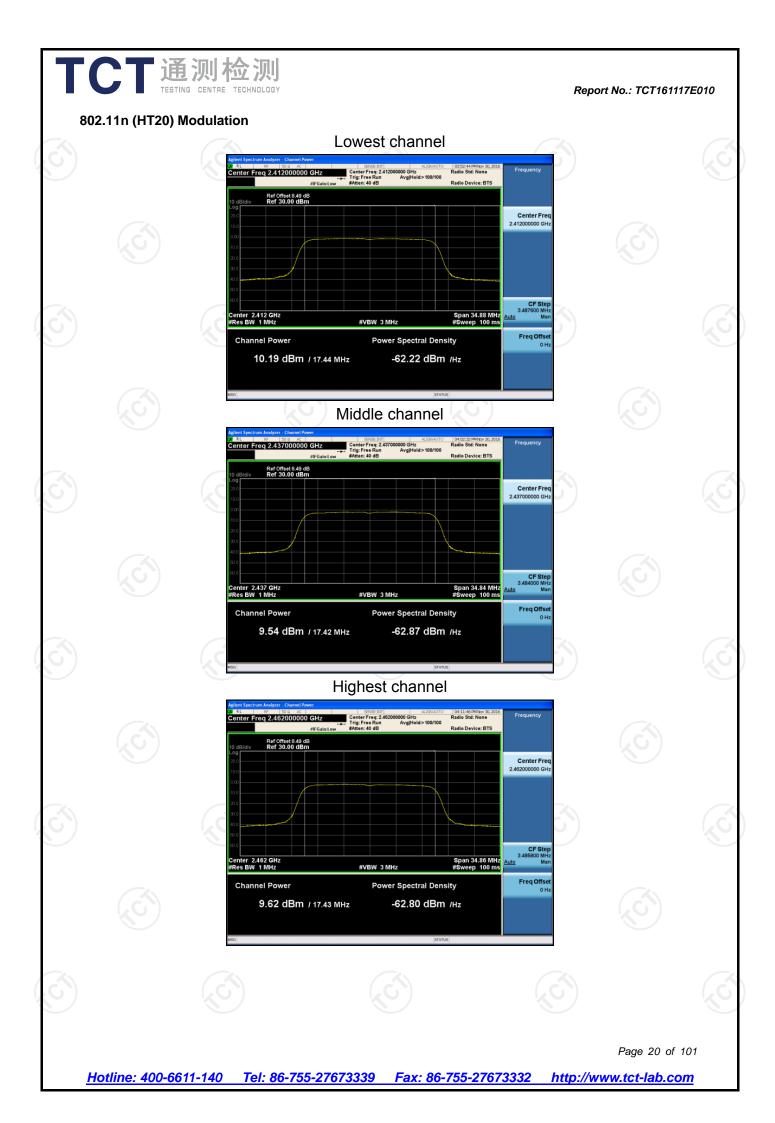


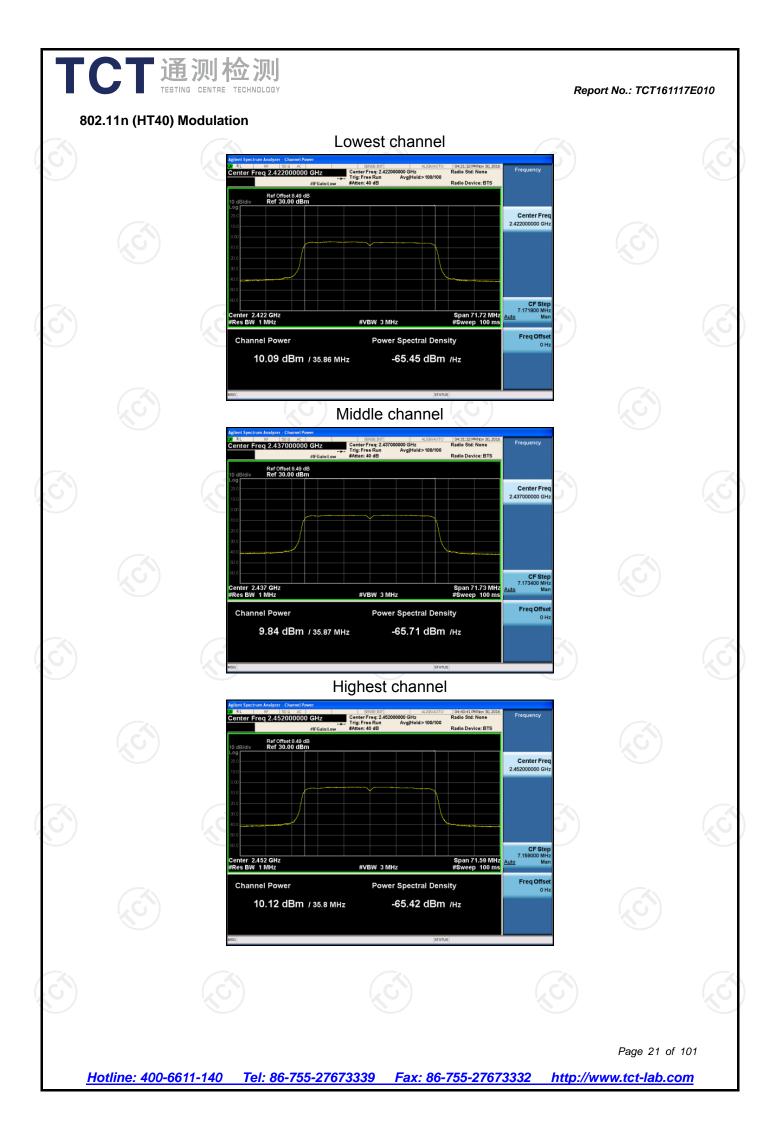












CT通测检测 TESTING CENTRE TECHNOLOGY 4. Emission Bandwidt	Report No.: TCT1	61117E
4.1. Test Specification Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
Test Method:	KDB558074	
Limit:	>500kHz	
Test Setup:	Spectrum Analyzer EUT	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	<ol> <li>The testing follows FCC KDB Publication No. 558 DTS D01 Meas. Guidance v03r02.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyz resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to n an accurate measurement. The 6dB bandwidth n be greater than 500 kHz.</li> <li>Measure and record the results in the test report.</li> </ol>	e :er's nake
Test Result:	PASS	

## 6.4.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Date of Cal. Due Da							
Spectrum Analyzer	Agilent	N9020A	Aug. 13, 2016	Aug. 12, 2017			
RF cable	тст	RE-06	Aug. 13, 2016	Aug. 12, 2017			
Antenna Connector	тст	RFC-01	Aug. 13, 2016	Aug. 12, 2017			

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

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Antenna 1:		$(\chi O')$	(20)		
Test channel	6dB Emission Bandwidth (MHz)				
	802.11b	802.11g	802.11n(H20)	802.11n(H40)	
Lowest	11.11	16.28	15.92	35.33	
Middle	12.05	16.3	16.86	35.04	
Highest	11.08	16.29	16.05	34.93	
Limit:	>500k				
Test Result:	PASS				

#### Antenna 2:

Test channel	6dB Emission Bandwidth (MHz)				
rest channer	802.11b	802.11g	802.11n(H20)	802.11n(H40)	
Lowest	11.08	16.07	16.39	35.28	
Middle	12.04	16.28	16.44	35.24	
Highest	11.12	16.03	16.23	34.81	
Limit:	>500k				
Test Result:	PASS			$\langle \mathcal{C} \rangle$	

Test plots as follows:

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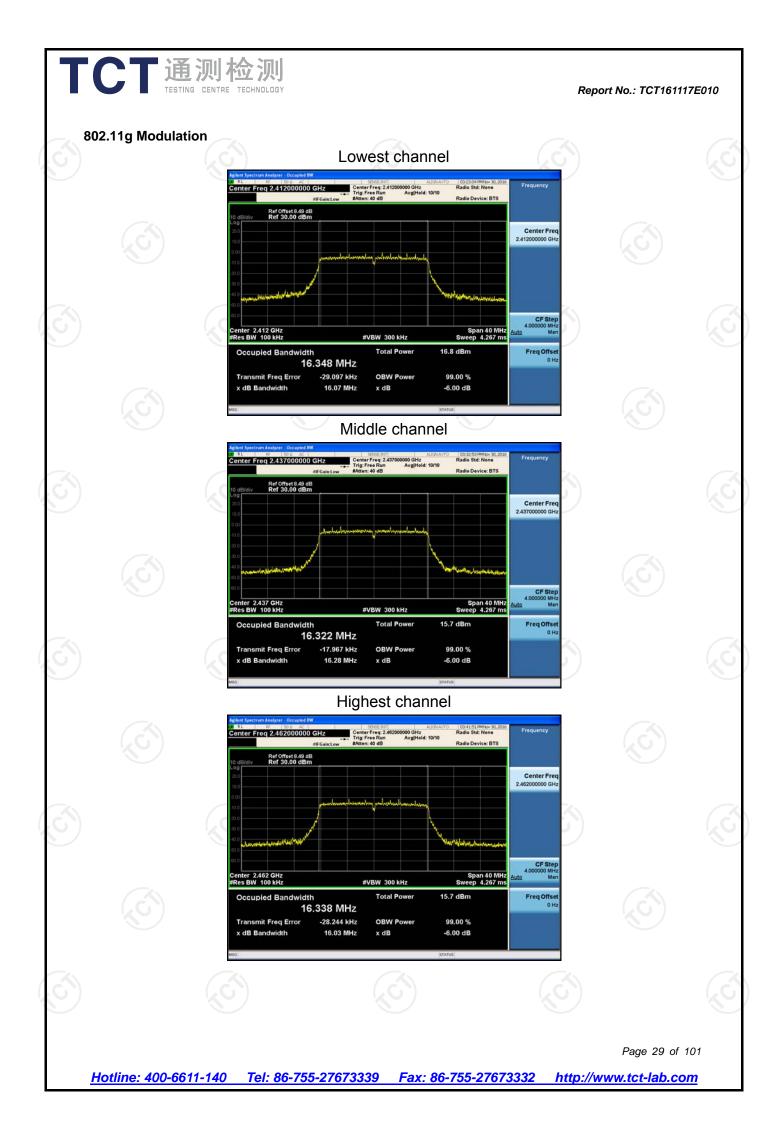


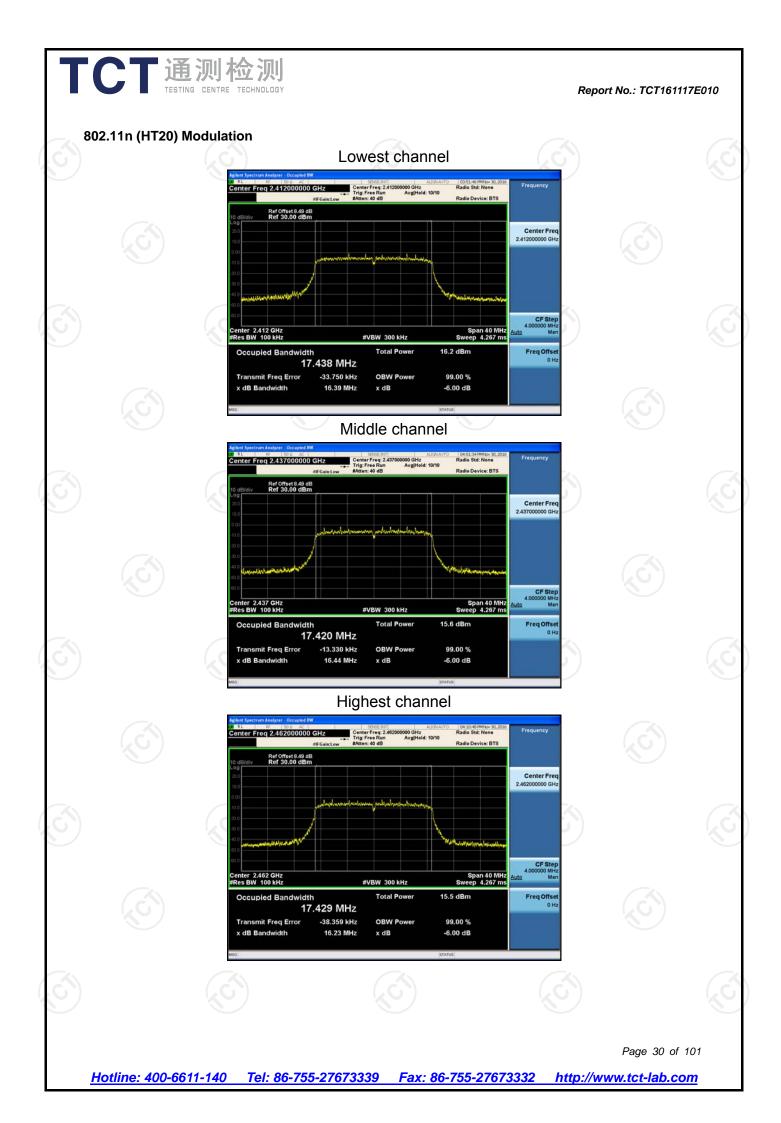


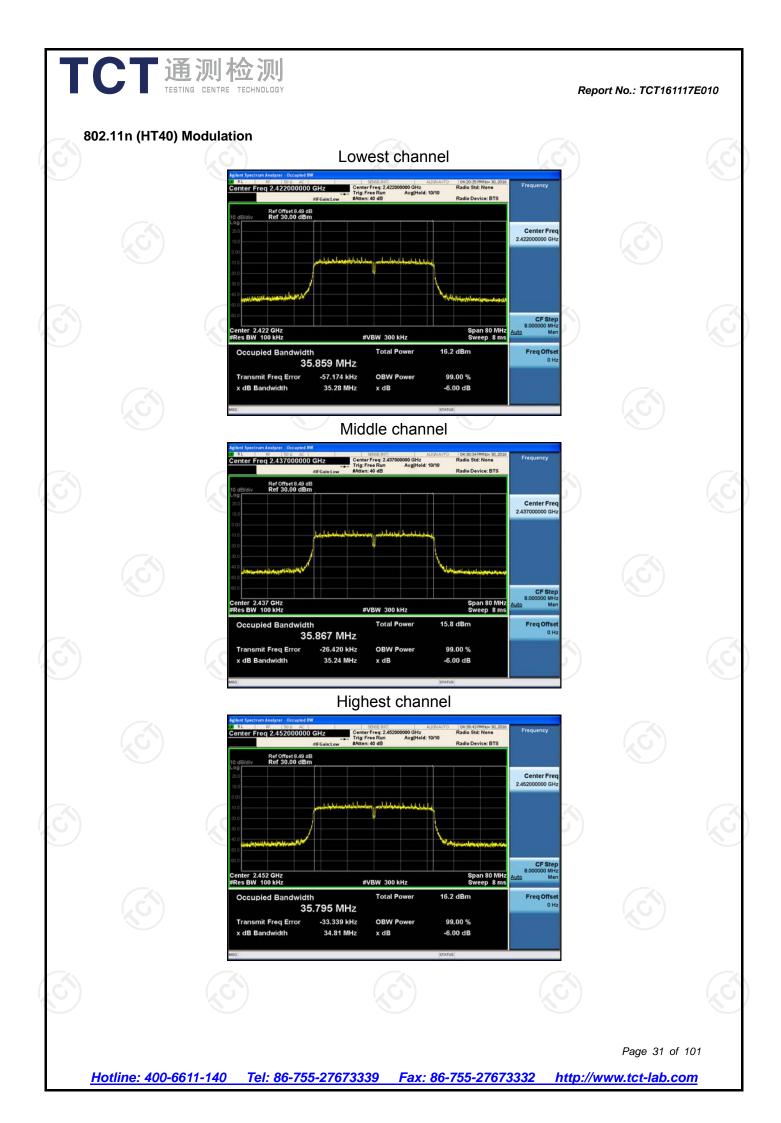












## 6.5. Power Spectral Density

## 6.5.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement: Test Method: Limit:	<ul> <li>FCC Part15 C Section 15.247 (e)</li> <li>KDB558074, KDB662911</li> <li>The peak power spectral density shall no than 8dBm in any 3kHz band at any tim continuous transmission.</li> </ul>	•
	The peak power spectral density shall no than 8dBm in any 3kHz band at any tim	•
Limit:	than 8dBm in any 3kHz band at any tim	•
		e interval of
Test Setup:		
	Spectrum Analyzer EUT	<u> </u>
Test Mode:	Transmitting mode with modulation	
Test Procedure:	<ol> <li>The testing follows Measurement Procedu Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v0</li> <li>The RF output of EUT was connected to the analyzer by RF cable and attenuator. The was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and en EUT transmit continuously.</li> <li>Make the measurement with the spectrum resolution bandwidth (RBW): 3 kHz ≤ RB kHz. Video bandwidth VBW ≥ 3 x RBW. Sto to at least 1.5 times the OBW.</li> <li>Detector = RMS, Sweep time = auto coup 6. Employ trace averaging (RMS) mode ove of 100 traces. Use the peak marker funct determine the maximum power level.</li> <li>Measure and record the results in the test</li> </ol>	on 0.3r02 the spectrum able the n analyzer's $SW \le 100$ Set the span ble. r a minimum tion to
Test Result:	PASS	

### 6.5.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Date of Cal.	Due Date			
Spectrum Analyzer	Agilent	N9020A	Aug. 13, 2016	Aug. 12, 2017			
RF cable	ТСТ	RE-06	Aug. 13, 2016	Aug. 12, 2017			
Antenna Connector	тст	RFC-01	Aug. 13, 2016	Aug. 12, 2017			

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**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

international system unit (SI).

### 6.5.3. Test data

Test channel	AVG Power Spectral Density (dBm/3kHz)			Limit	Result	
	Antenna	Antenna 2				
Lowest	-13.019	-17	.886	8dBm/3kHz	PASS	
Middle	-13.456	-19	9.111	8dBm/3kHz	PASS	
Highest	-13.074	-13	.541	8dBm/3kHz	PASS	
configuration IEEE	302.11g/ Anter	nna 1, Anten	na 2			
Test channel		er Spectral [ dBm/3kHz)	ectral Density ßkHz) Limit		it Result	
	Antenna <sup>2</sup>	Antenna 1 Anten				
Lowest	-11.118	-17	.264	8dBm/3kHz	PASS	
Middle	-11.659	-18	.207	8dBm/3kHz	PASS	
Highest	-11.507	-19	.963	8dBm/3kHz	PASS	
				)		
onfiguration IEEE	802.11n (HT20	)/ Antenna <sup>-</sup>	I, Antenn	a 2		
Test channel	AVG Power Spectral Density (dBm/3kHz)		Limit	Result		
	Antenna 1	Antenna 2	Total			
Lowest	-11.783	-17.550	-10.76	6.49dBm/3kHz	PASS	
Middle	-12.833	-17.956	-11.67	6.49dBm/3kHz	PASS	
Highest	-12.747	-18.142	-11.65	6.49dBm/3kHz	PASS	
Configuration IEEE	802.11n (HT40	)/ Antenna <sup>·</sup>	I, Antenn	a 2		
Test channel		er Spectral [ dBm/3kHz)	Density	Limit	Result	

 - (- Th 000 44		A 4 5 10	A	401	0.04.10
Highest	-16.557	-22.498	-15.57	6.49dBm/3kHz	PASS
Middle	-16.256	-21.716	-15.17	6.49dBm/3kHz	PASS

Antenna 2

-20.209

Total

-14.14

6.49dBm/3kHz

Note: The 802.11n mode supports MIMO, G<sub>ANT</sub> =4.5dBi, Array Gain=10log(N<sub>ANT</sub>/N<sub>SS</sub>)=3.01dBi

Directional Gain=G<sub>ANT</sub> + Array Gain=7.51dBi, So limit=8-(7.51-6)=6.49dBm/3kHz

Antenna 1

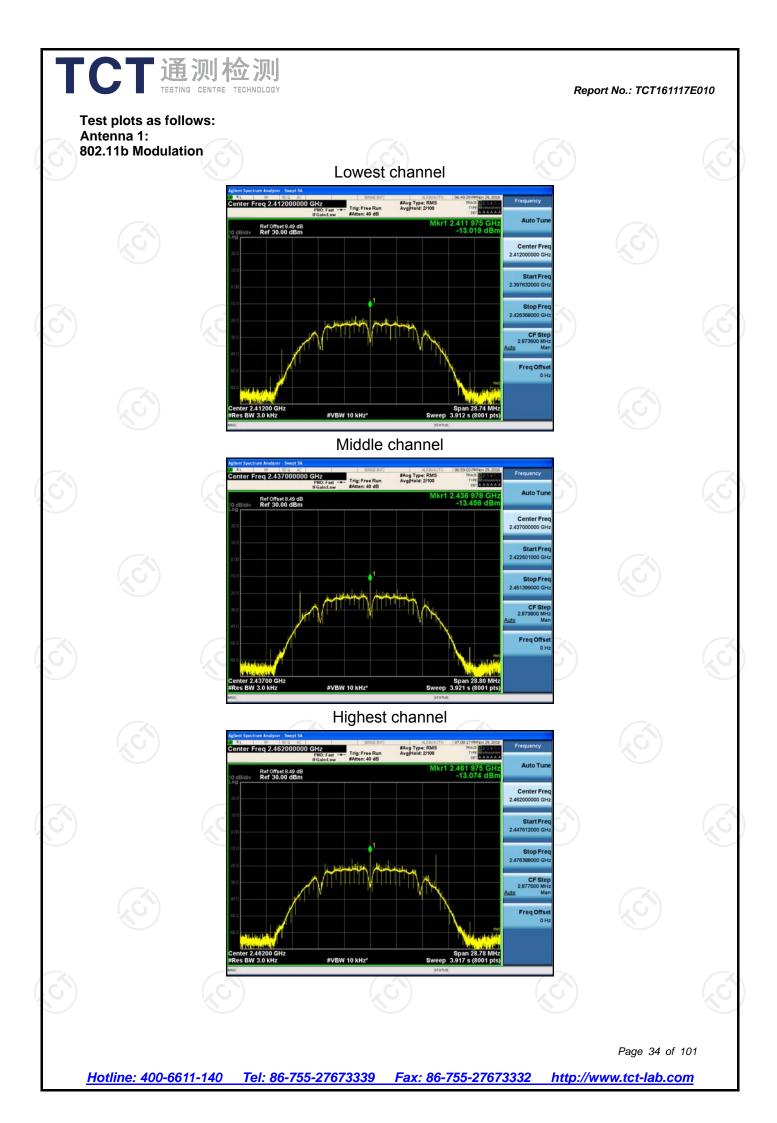
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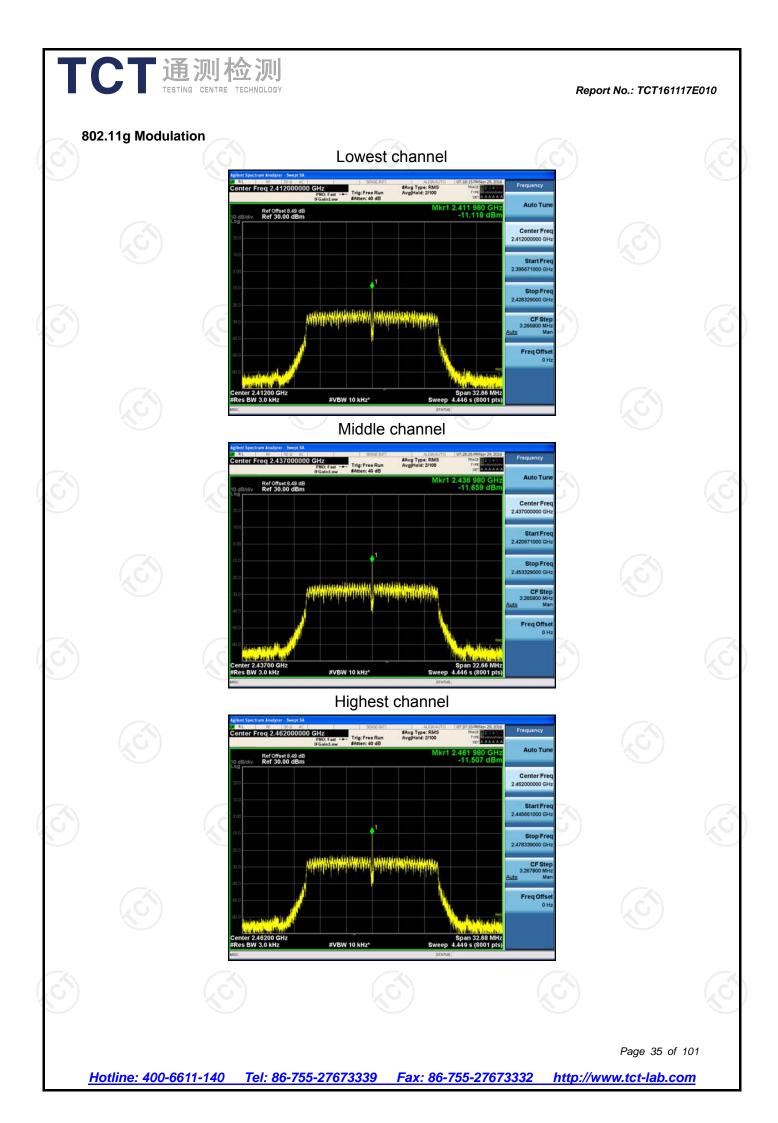
Lowest

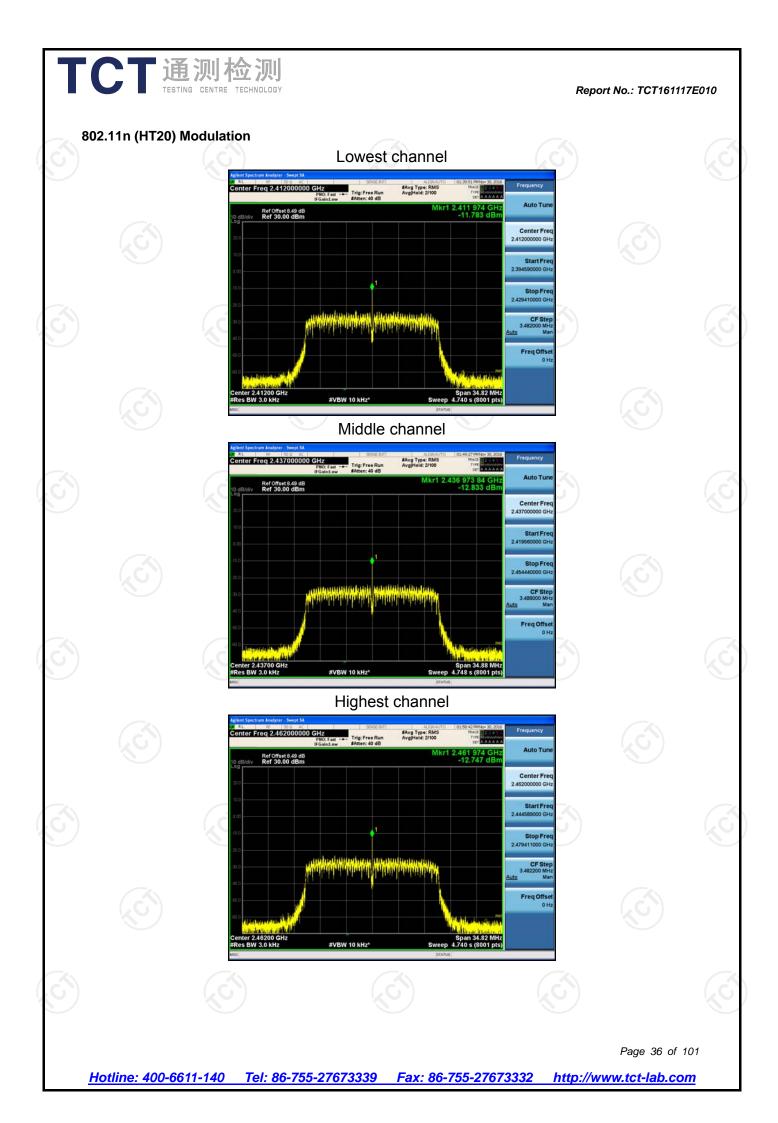
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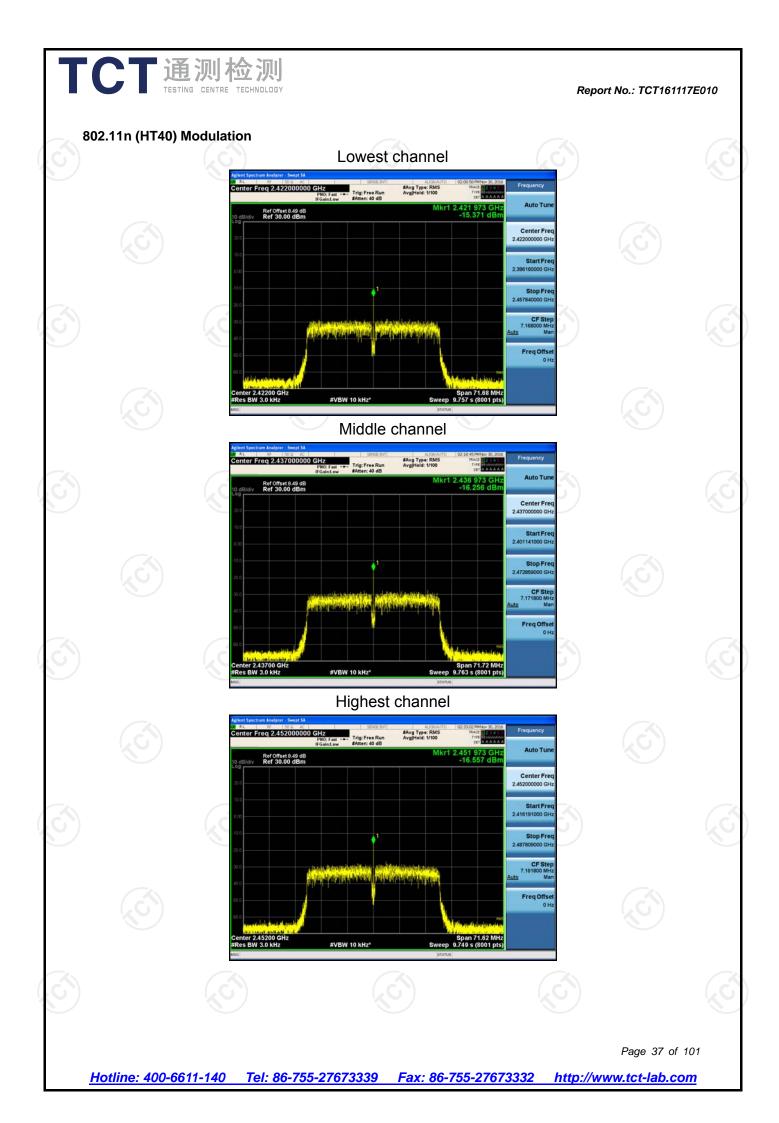
PASS

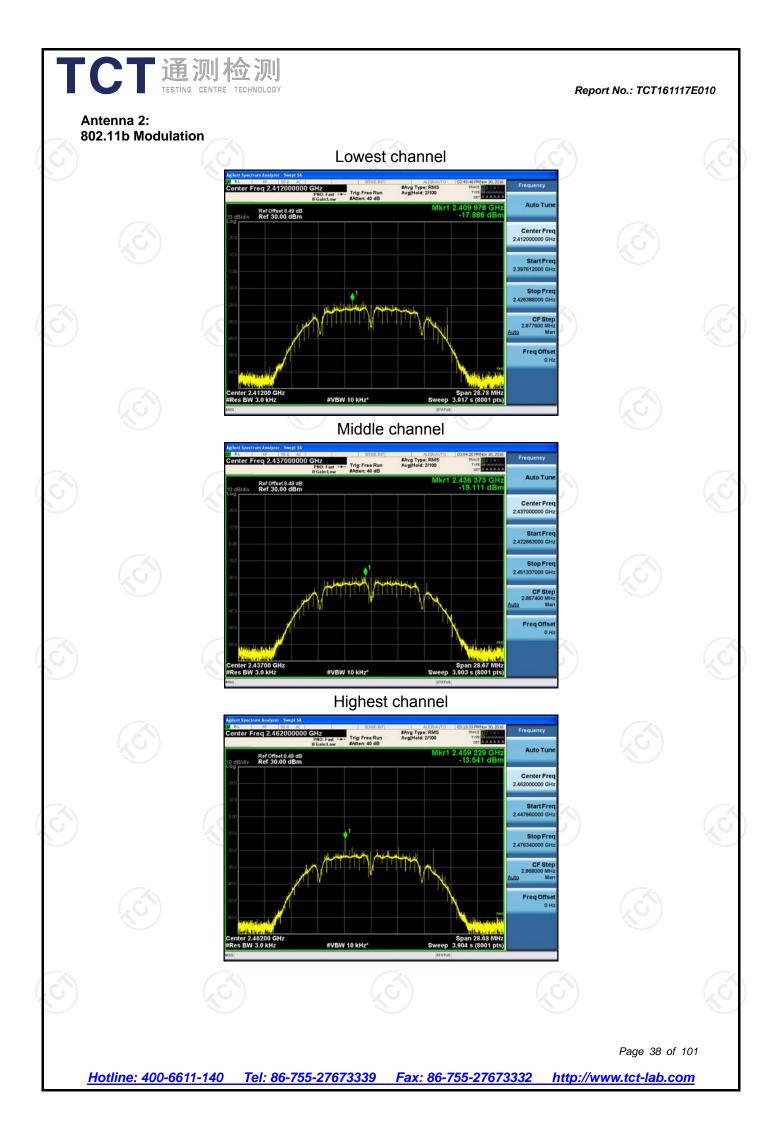
Report No.: TCT161117E010

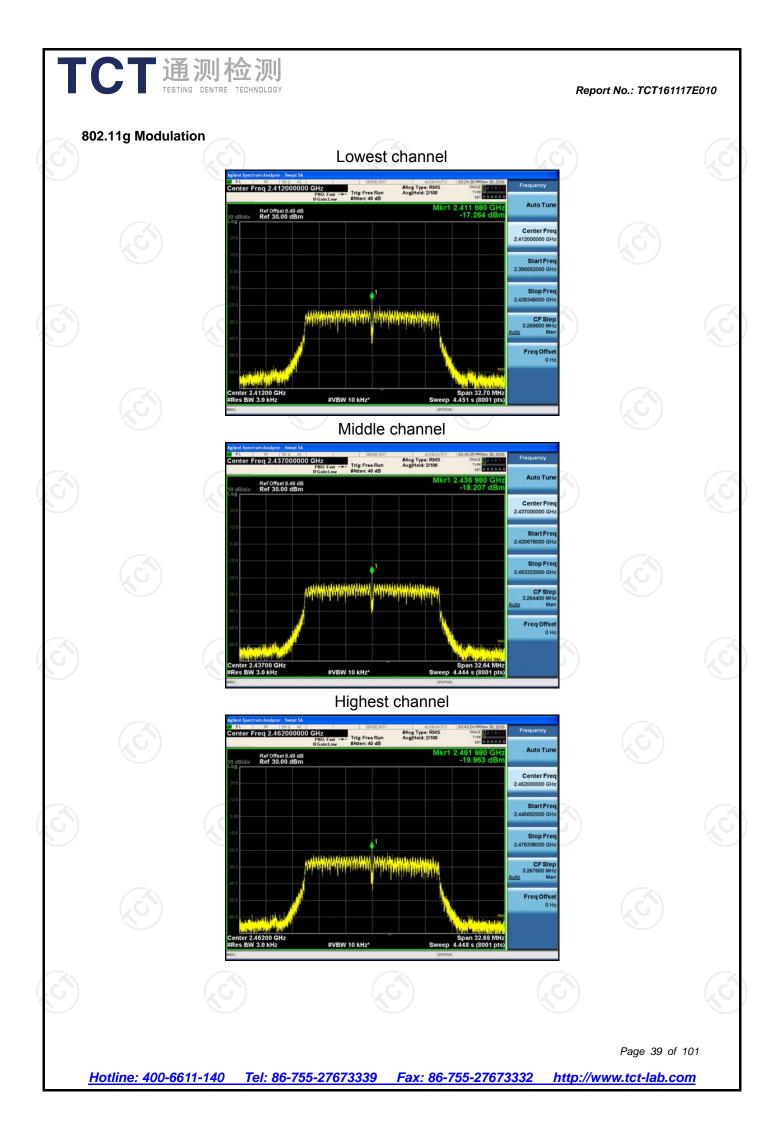


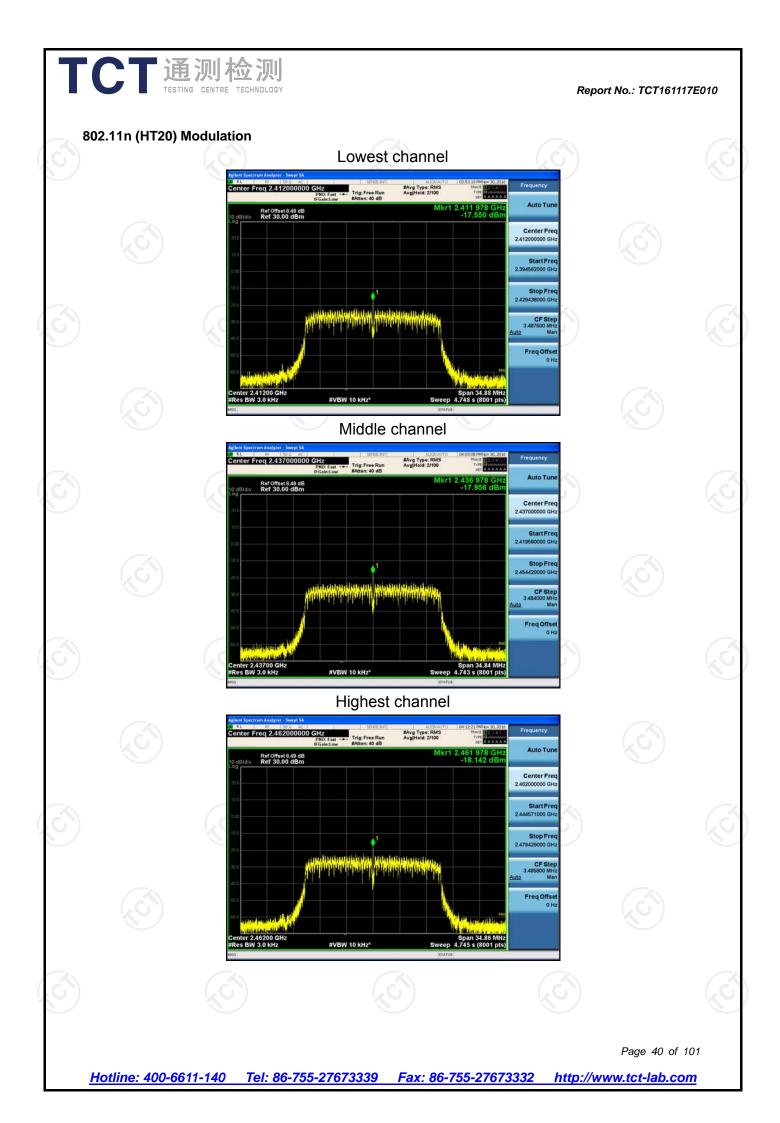


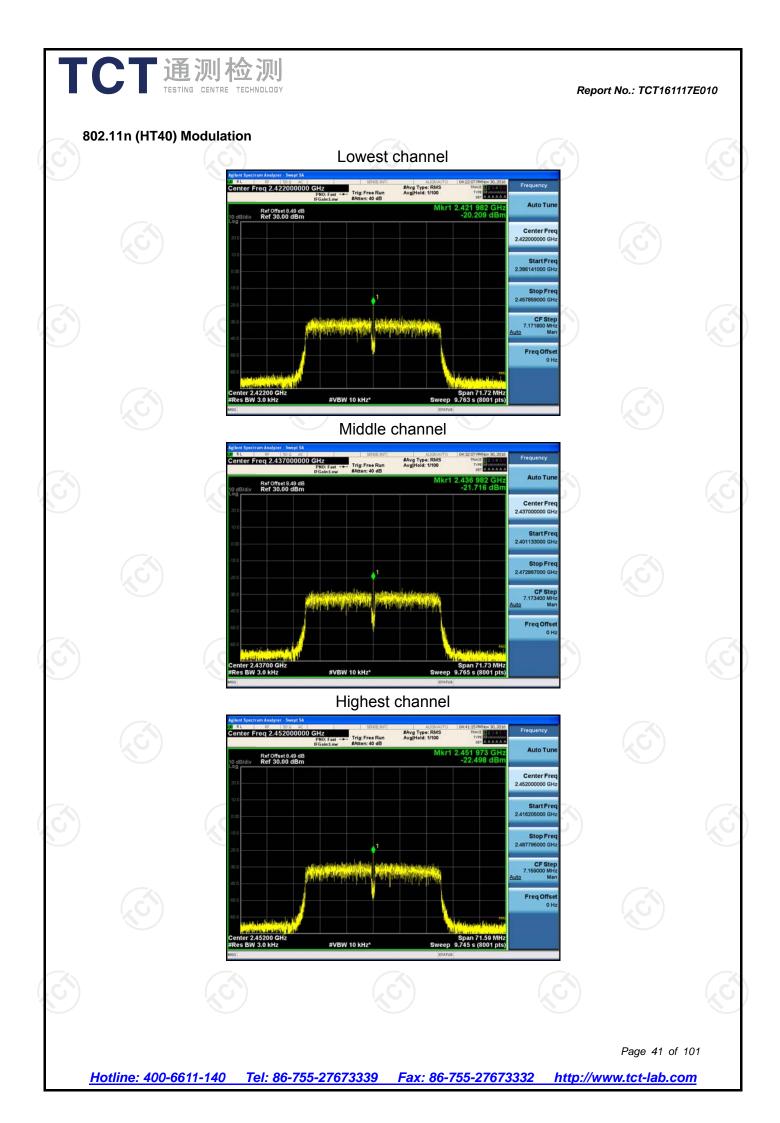












## 6.6. Conducted Band Edge and Spurious Emission Measurement

## 6.6.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

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 testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.</li> <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

Hotline: 400-6611-140

Tel: 86-755-27673339

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RF Test Room							
Equipment	Manufacturer	Model	Date of Cal.	Due Date			
Spectrum Analyzer	Agilent	N9020A	Aug. 13, 2016	Aug. 12, 2017			
RF cable	тст	RE-06	Aug. 13, 2016	Aug. 12, 2017			
Antenna Connector	тст	RFC-01	Aug. 13, 2016	Aug. 12, 2017			

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

