TEST REPORT

CT 通测检测 TESTING CENTRE TECHNOLOGY

> FCC ID: SZRHD5-1200 Product: Digital Video Recorder Model No.: HD5-1200 Additional Model No.: N/A

Trade Mark: CRCED Report No.: TCT161117E007 Issued Date: Dec. 06, 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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CT 通测 TESTING CENTR	E TECHNOLOGY			Rep	ort No.: TCT1611
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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

	通	测	检	测
	TESTING	CENTR	E TECH	NOLOGY

1. Test Certification

Digital Video Recorder	
HD5-1200	
N/A	
Radio Engineering Industries Inc.	
6534 L Street Omaha, Nebraska 68117, United States	
Radio Engineering Industries Inc.	
6534 L Street Omaha, Nebraska 68117, United States	
Nov. 18 – Dec. 02, 2016	
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	
	HD5-1200 N/A Radio Engineering Industries Inc. 6534 L Street Omaha, Nebraska 68117, United States Radio Engineering Industries Inc. 6534 L Street Omaha, Nebraska 68117, United States Nov. 18 – Dec. 02, 2016 FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05

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: Dec. 02, 2016 Date: Garen **Reviewed By:** Date: Dec. 06, 2016 Z Joe Zhou omsn Approved By: Dec. 06, 2016 Date: Tomsin Page 3 of 111 Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

2. Test Result Summary

CFR 47 Section §15.203/§15.247 (c)	Result PASS
§15.203/§15.247 (c)	PASS
	FASS
§15.207	N/A
§15.247 (b)(3) §2.1046	PASS
§15.247 (a)(2) §2.1049	PASS
§15.247 (e)	PASS
1§5.247(d) §2.1051, §2.1057	PASS
§15.205/§15.209 §2.1053, §2.1057	PASS
	§15.247 (b)(3) §2.1046 §15.247 (a)(2) §2.1049 §15.247 (e) 1§5.247 (e) 1§5.247(d) §2.1051, §2.1057 §15.205/§15.209

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 Name:

Model :	HD5-1200	
Additional Model:	N/A	
Trade Mark:	REI	
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 300Mbps	
Antenna Type:	External antenna	
Antenna Gain:	4.5dBi	
Power Supply:	DC 8V-30V	
Test Power:	DC 12V	
		-

Digital Video Recorder

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	(\mathcal{S})	

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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)

TCT通测检测 TESTING CENTRE TECHNOLOGY

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	C
Atmospheric Pressure:	1010 mbar	

Test Mode:

Engineering mod	e:	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

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

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4.2. Description of Support Units

TCT通测检测 TCT通测检测

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	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

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

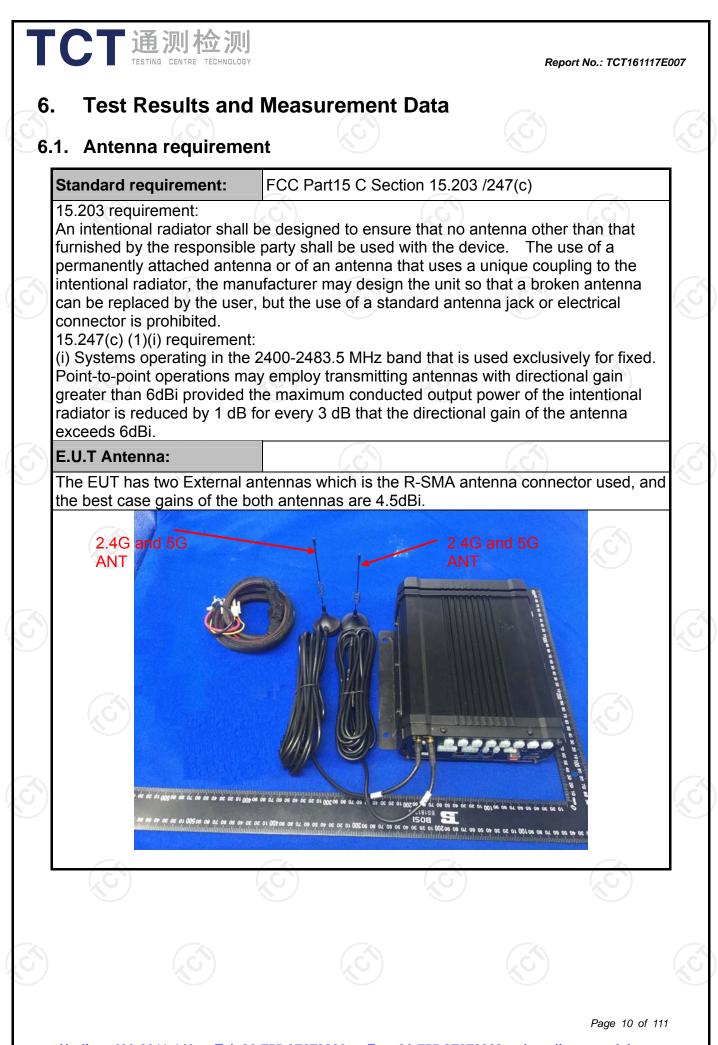
Shenzhen Tongce Testing Lab

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 %.

Connic	ience of approximately 95 %.		-
No.	Item	MU	N.
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%	



.1. Test Specification			
Test Requirement:	FCC Part15 C Section	15.207	
Test Method:	ANSI C63.10:2013	(C)	
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto
_imits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50
Test Setup:	E.U.T AC powe Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Ne Test table height=0.8m	EMI Receiver	— AC power
Fest Mode:	Charging + transmitting	g with modulation	
Fest Procedure:	 The E.U.T and simulative power through a line (L.I.S.N.). This process of the magnetic power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C62.4: 2014 a 	e impedance stab ovides a 500hm neasuring equipme es are also conne SN that provides with 500hm term diagram of the line are checkence. In order to fin e positions of equ	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and d for maximum ipment and all o ed according to
	ANSI C03.4. 2014 0		

6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074, KDB662911
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02. 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. 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

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
RF cable	тст	RE-06	N/A	Aug. 12, 2017
Antenna Connector	тст	RFC-01	N/A	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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6.3.3. Test Data

Configuration IEEE 802.11b/ Antenna 1+Antenna 2						
Test channel		Conducted (A ut Power (dB	Limit (dBm)	Result		
	Antenna 1 Antenna 2 Total					
Lowest	11.78	11.07	14.45	30.00	PASS	
Middle	9.43	10.02	12.75	30.00	PASS	
Highest	11.27	11.81	14.56	30.00	PASS	

Configuration IEEE 802.11g/ Antenna 1+Antenna 2

Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	8.58	8.31	11.46	30.00	PASS
Middle	6.45	6.77	9.62	30.00	PASS
Highest	7.58	8.17	10.90	30.00	PASS

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

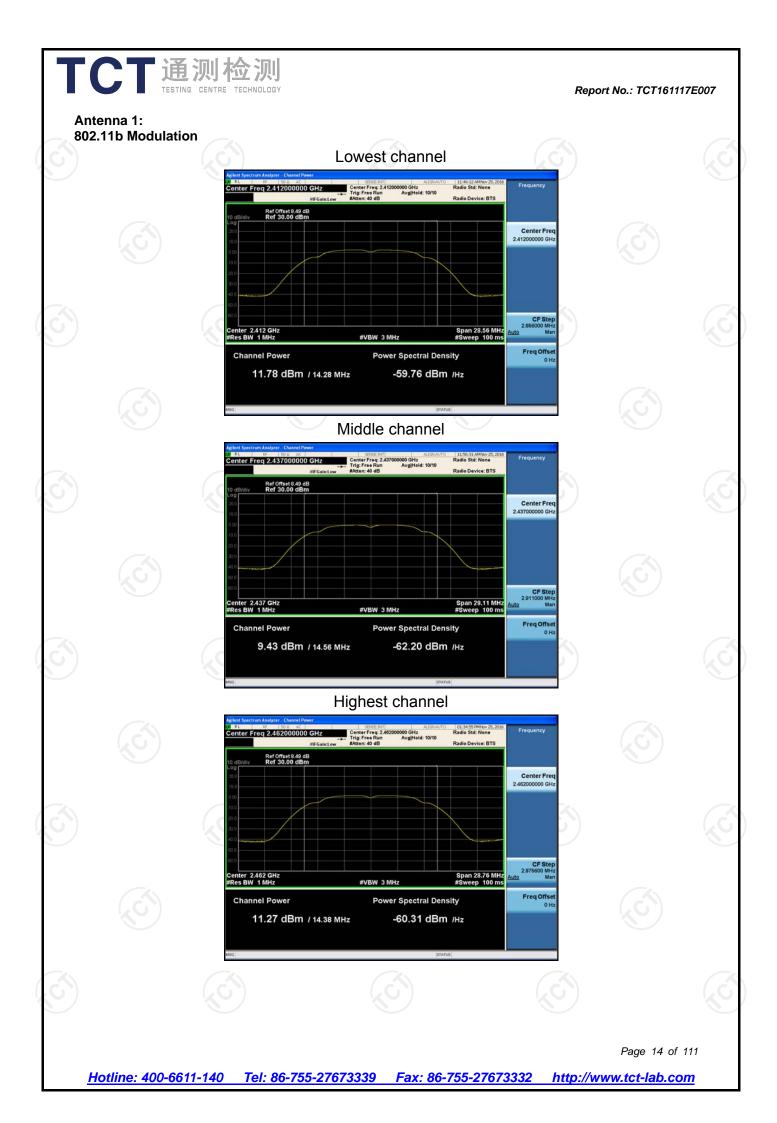
Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result	
	Antenna 1	Antenna 2	Total			
Lowest	8.61	8.51	11.57	30.00	PASS	
Middle	6.37	6.66	9.53	30.00	PASS	
Highest	7.58	8.08	10.85	30.00	PASS	

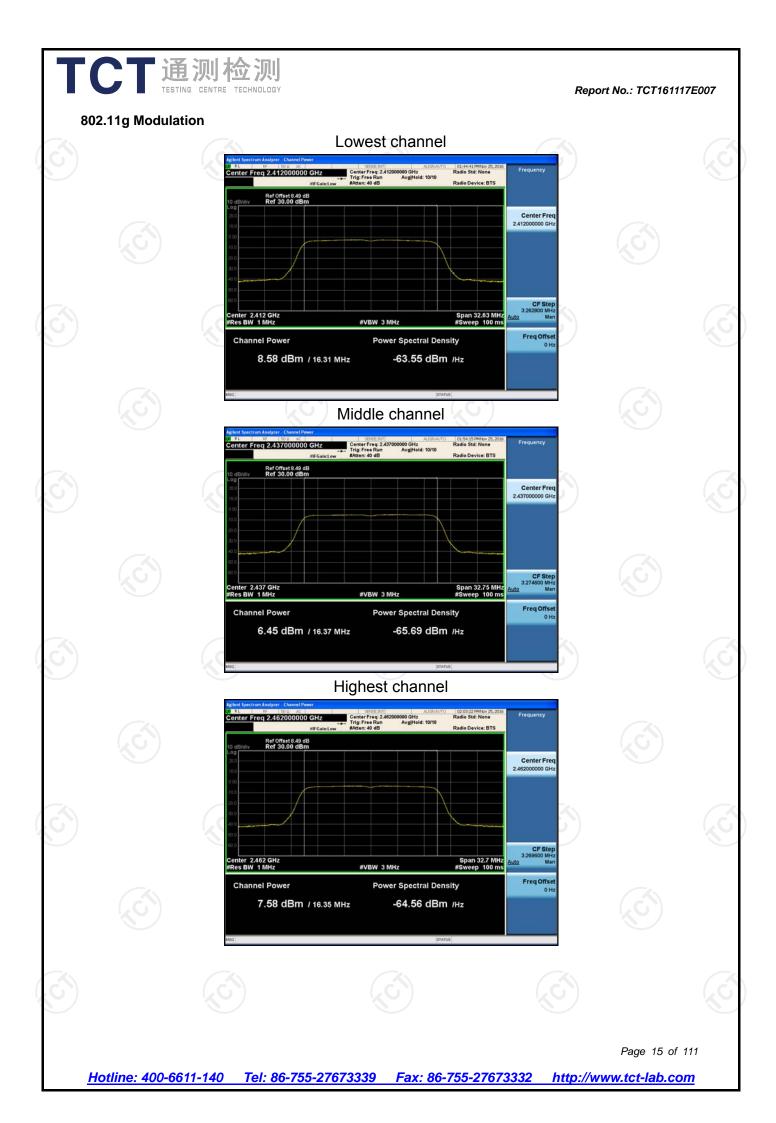
Configuration IEEE 802.11n(H40)/ Antenna 1+Antenna 2

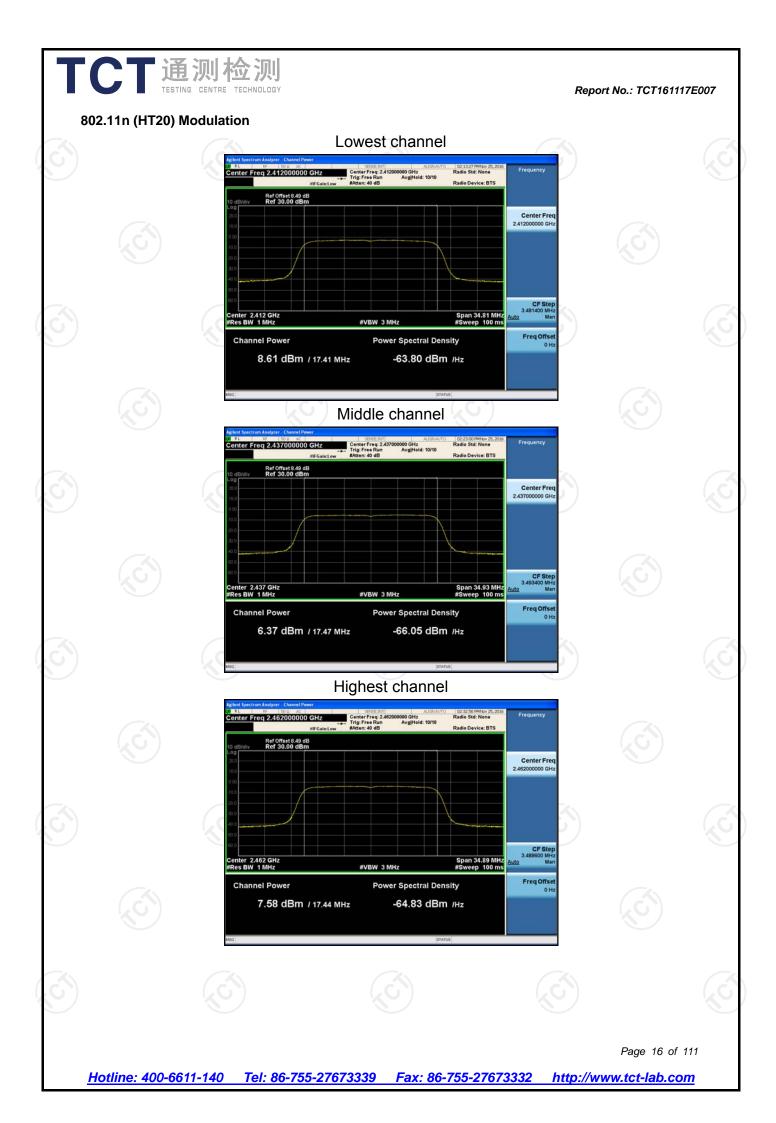
Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	8.03	7.92	10.99	30.00	PASS
Middle	7.25	7.70	10.49	30.00	PASS
Highest	7.76	8.32	11.06	30.00	PASS

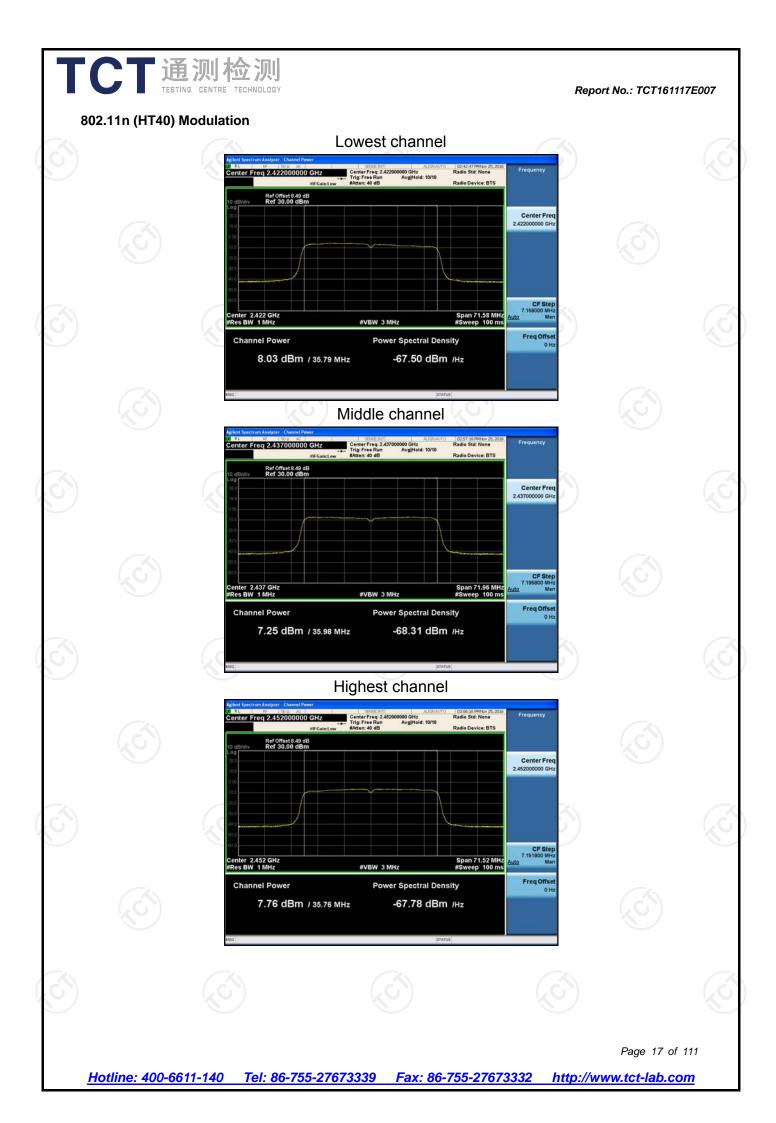
Test plots as follows:

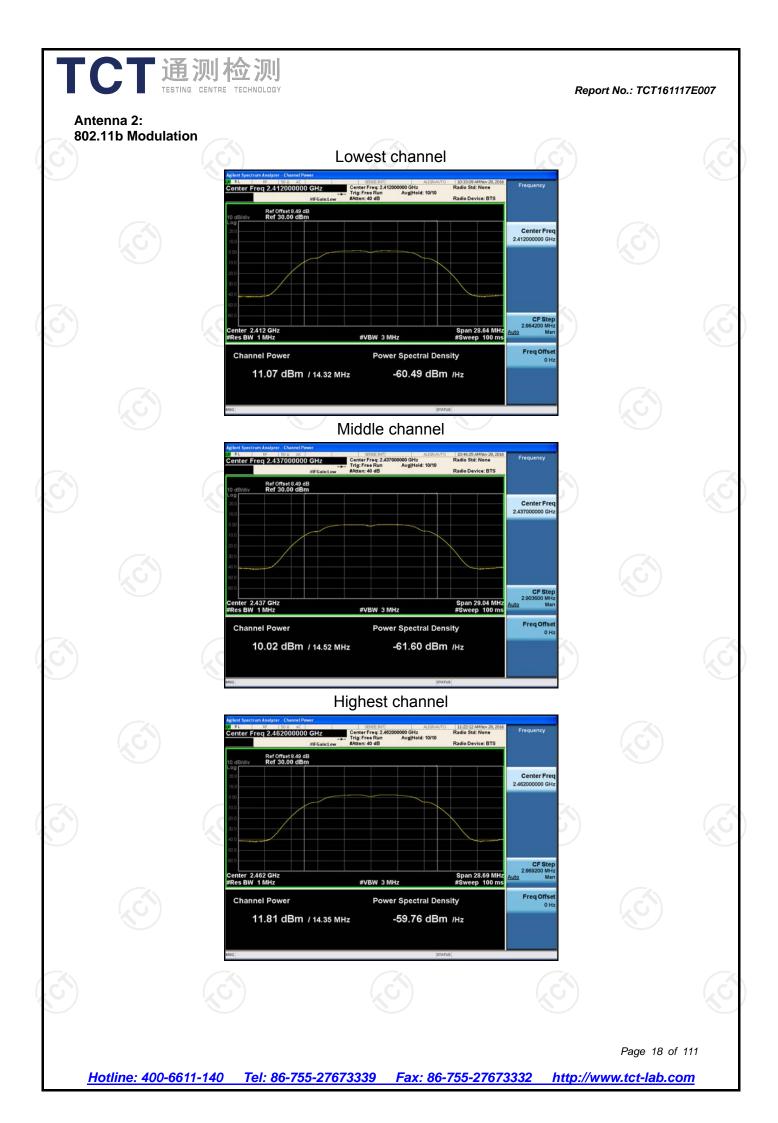
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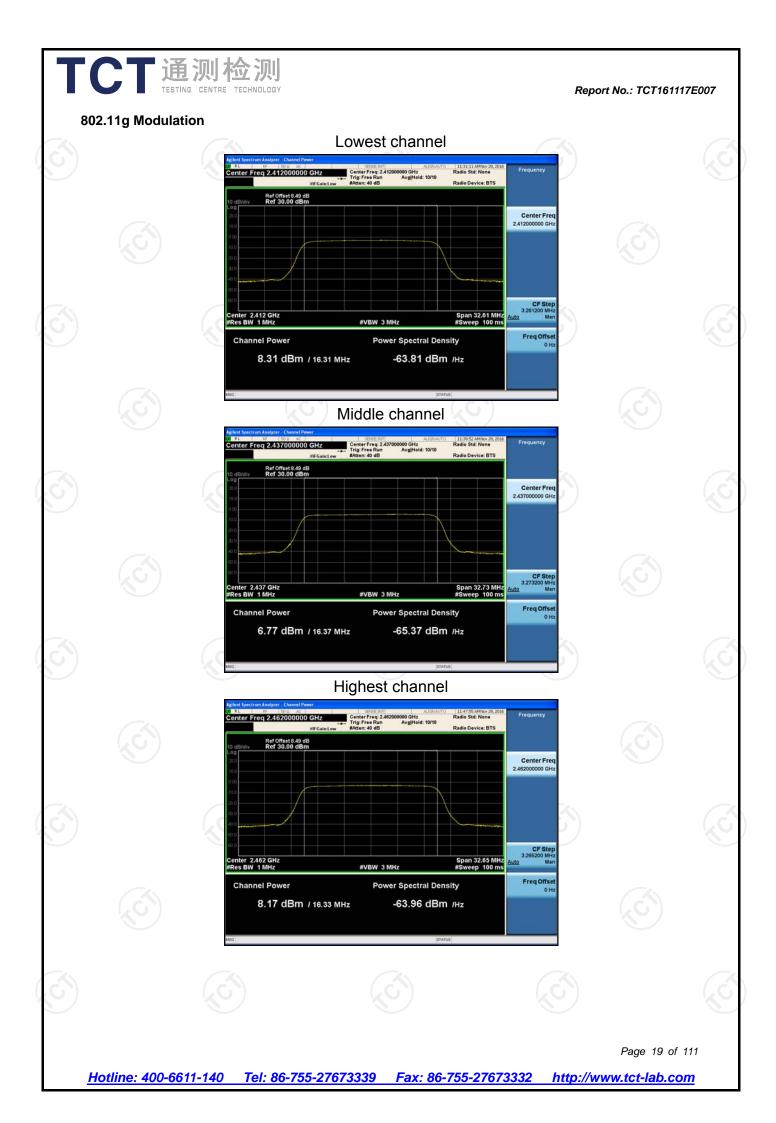


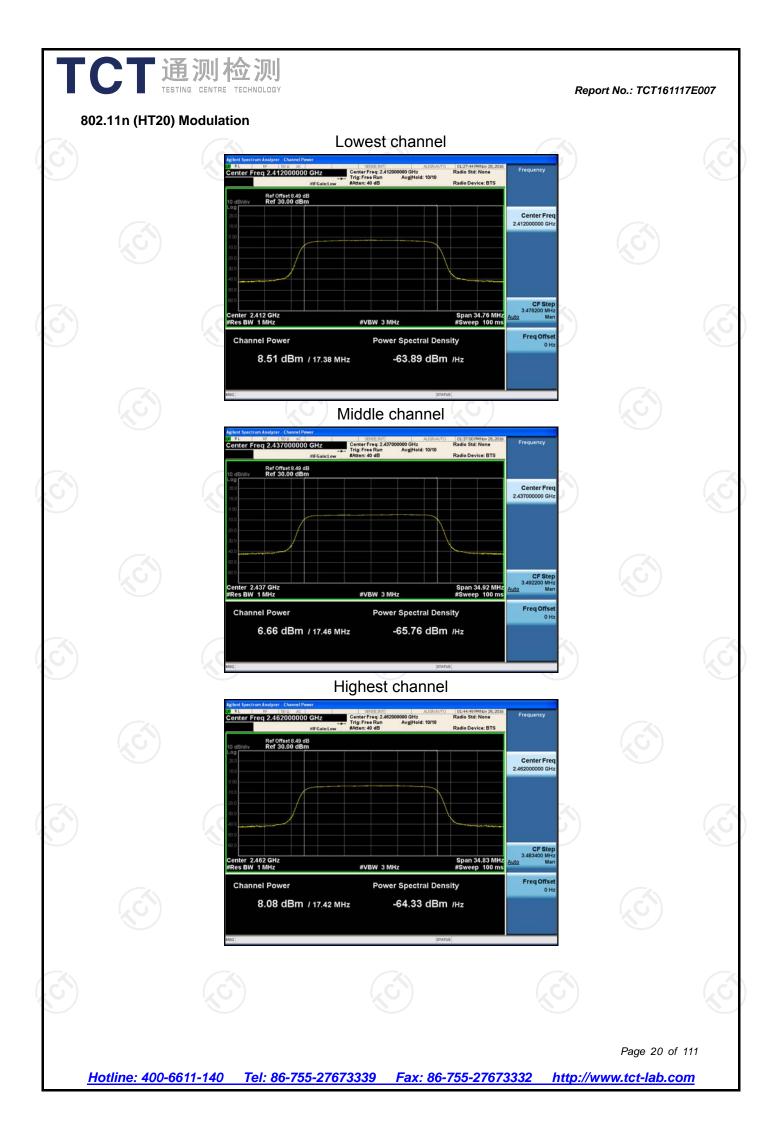


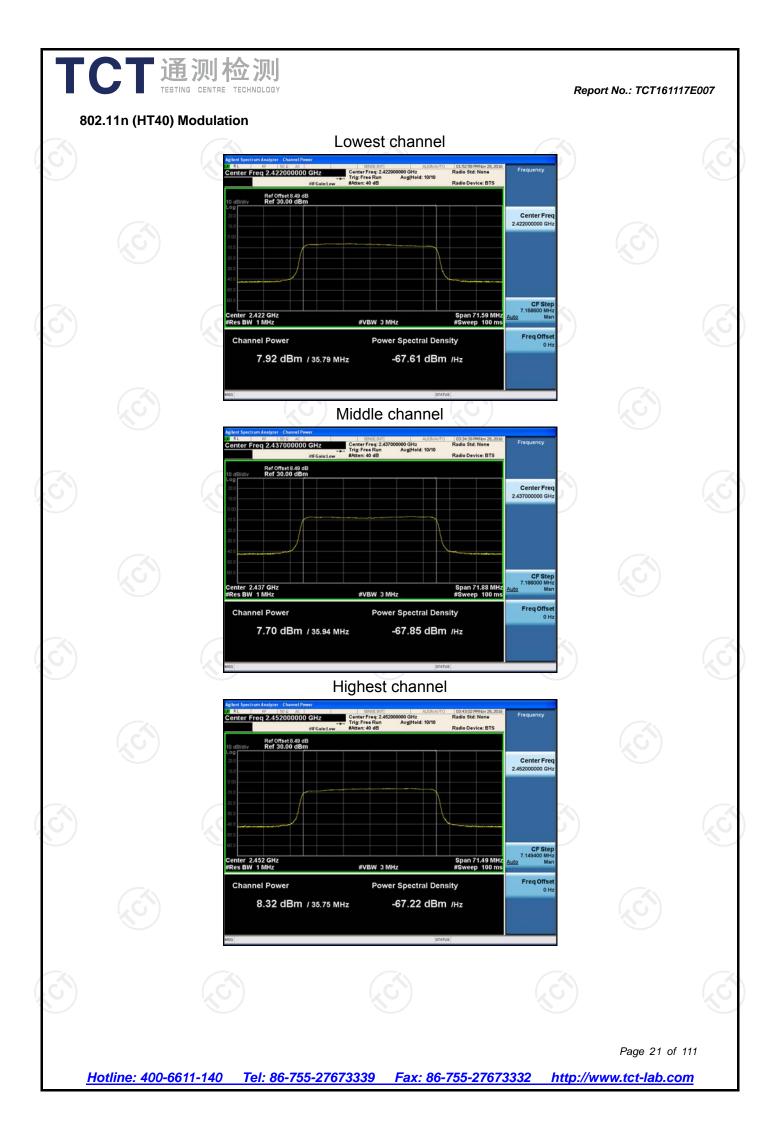












CT通测检测 4. Emission Bandwidt	Report No.: TCT161117E0
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02. 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	MY49100060	Aug. 12, 2017				
RF cable	тст	RE-06	N/A	Aug. 12, 2017				
Antenna Connector	тст	RFC-01	N/A	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:		(<u>x</u> G')		
Test channel	6dB Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	11.09	15.73	16.04	35.05
Middle	11.10	16.31	16.98	35.41
Highest	12.04	16.31	17.02	35.12
Limit:		(c) >	500k	
Test Result:		P	ASS	

Antenna 2:

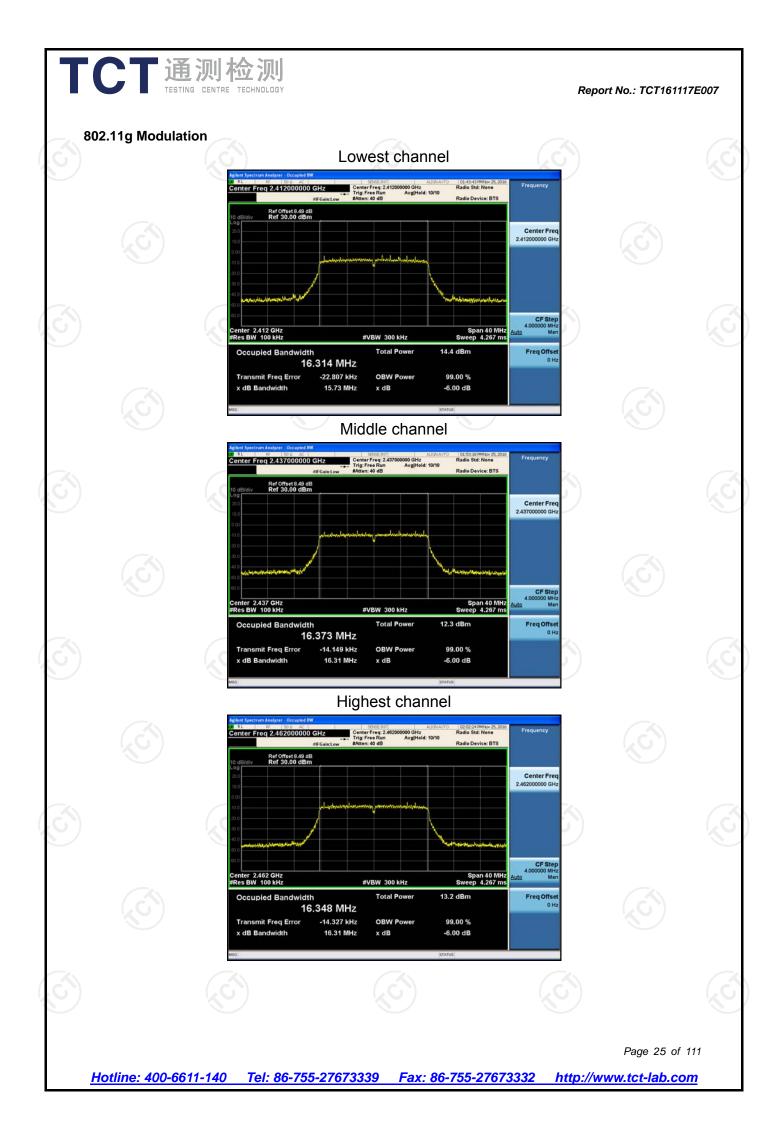
Test channel	6dB Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	10.13	16.06	16.83	33.91
Middle	12.03	16.29	16.24	35.57
Highest	10.14	16.03	16.27	35.28
Limit:		>	500k	
Test Result:		P	ASS	$\langle \mathcal{C} \rangle$

Test plots as follows:

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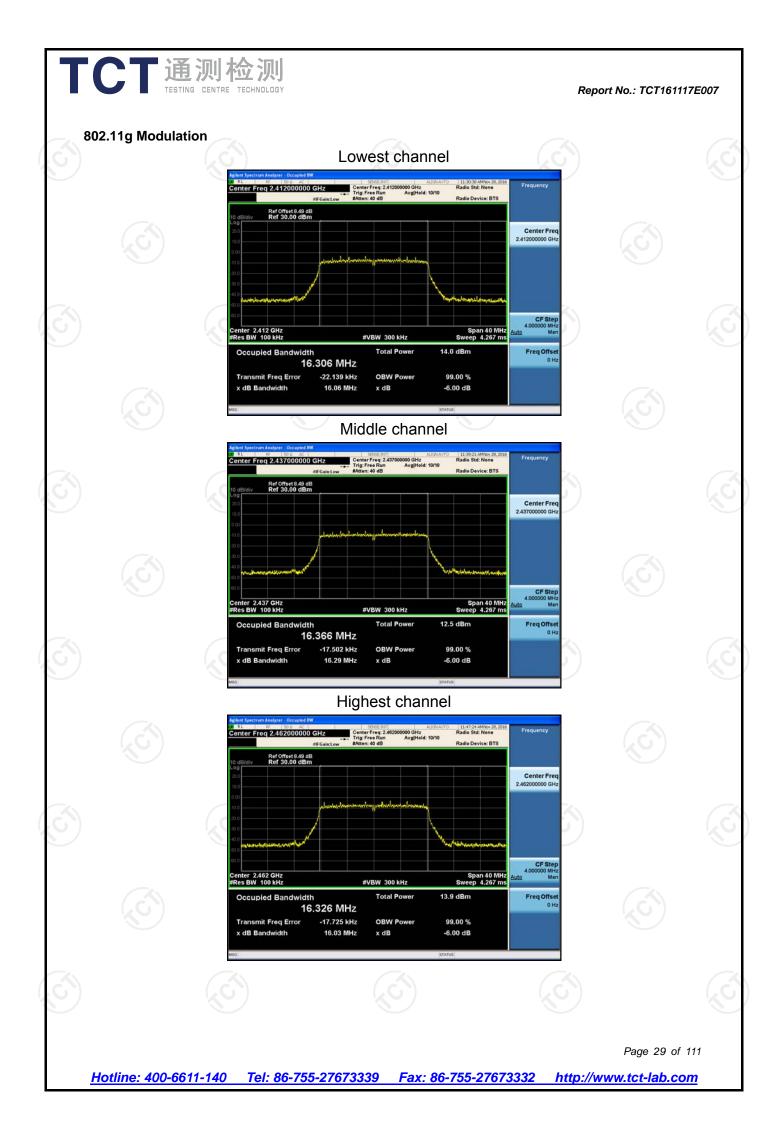


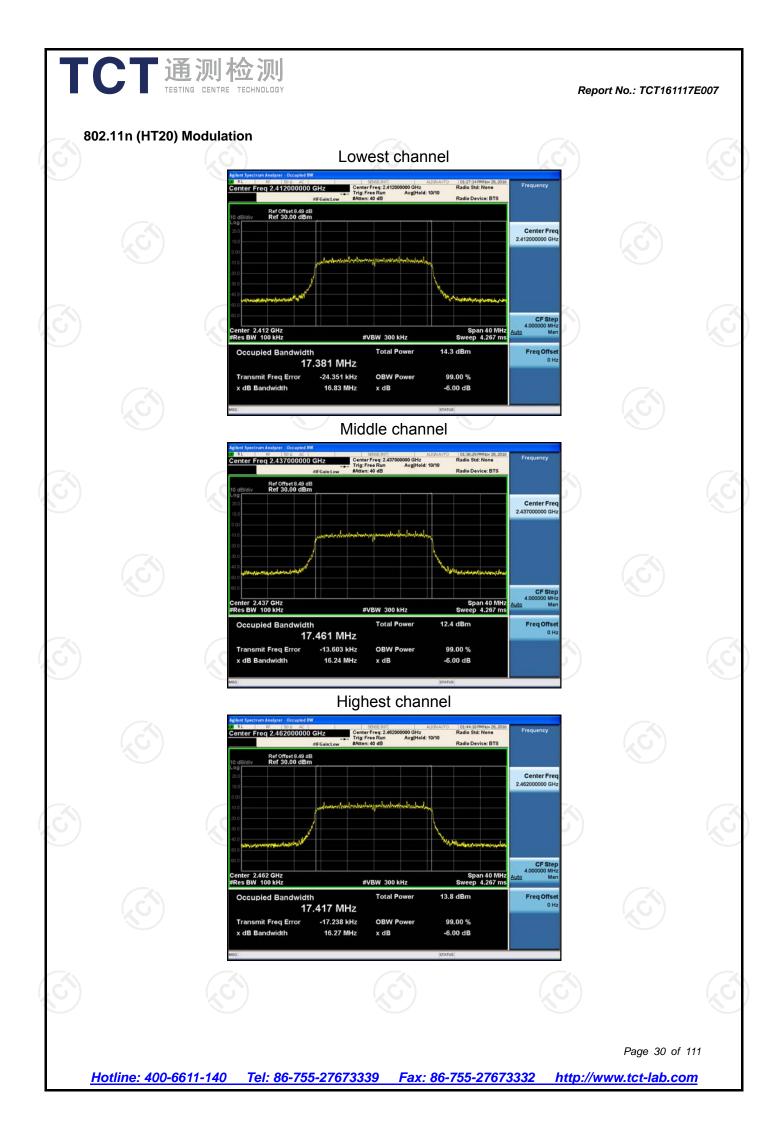


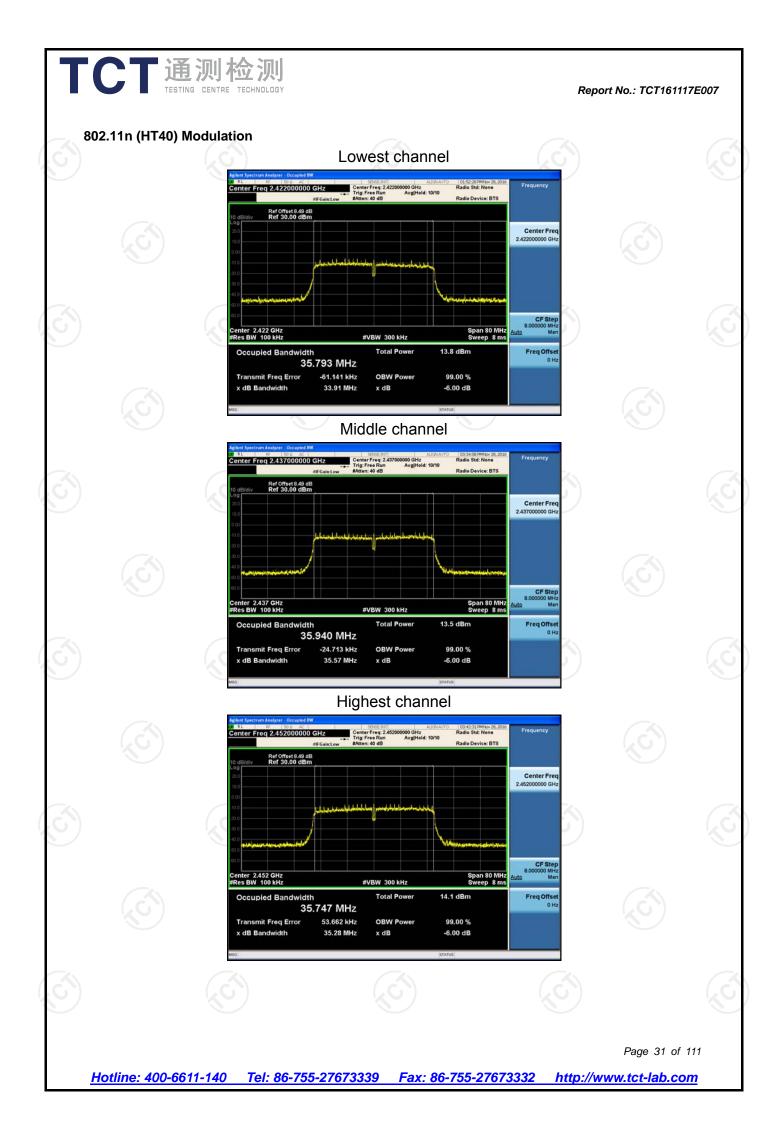












6.5. Power Spectral Density

6.6. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	KDB558074, KDB662911				
Limit:	The peak 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:	 The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r02 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. Set to the maximum power setting and enable the EUT transmit continuously. 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. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 				
Test Result:	PASS				

6.6.1. Test Instruments

	RF Test Room			
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
RF cable	тст	RE-06	N/A	Aug. 12, 2017
Antenna Connector	тст	RFC-01	N/A	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).

6.6.2. Test data

		AVG Power Spectral Density		Limit (dBm)	Result
Test channel		(dBm/3kHz)			
	Antenna 1	Antenna 2	Total		
Lowest	-16.573	-12.782	-11.27	8dBm/3kHz	PASS
Middle	-20.038	-5.982	-5.81	8dBm/3kHz	PASS
Highest	-4.649	-11.515	-3.84	8dBm/3kHz	PASS
Configuration IEEE	802.11g/ Ante	nna 1, Anten	na 2		
Test channel		AVG Power Spectral Density (dBm/3kHz)		Limit (dBm)	Result
	Antenna 1	Antenna 2	Total	· · · ·	
Lowest	-19.330	-12.008	-11.27	8dBm/3kHz	PASS
Middle	-21.941	-14.285	-13.60	8dBm/3kHz	PASS
Highest	-20.465	-12.028	-11.45	8dBm/3kHz	PASS
			C		S
Configuration IEEE	802.11n (HT20	0)/ Antenna ²	I, Antenna	a 2	
Test channel		AVG Power Spectral Density (dBm/3kHz)		Limit (dBm)	Result
	Antenna 1	Antenna 2	Total	· · · · ·	
Lowest	-18.901	-12.339	-11.47	8dBm/3kHz	PASS
Middle	-21.387	-13.112	-12.51	8dBm/3kHz	PASS
Highest	-20.726	-12.072	-11.52	8dBm/3kHz	PASS
				·	
Configuration IEEE	802.11n (HT40	0)/ Antenna ²	I, Antenna	a 2	
Test channel		AVG Power Spectral Density (dBm/3kHz)		Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		

Test plots as follows:

Lowest

Middle

Highest

-19.673

-20.287

-23.109

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PASS

PASS

PASS

8dBm/3kHz

8dBm/3kHz

8dBm/3kHz

Report No.: TCT161117E007

-14.896

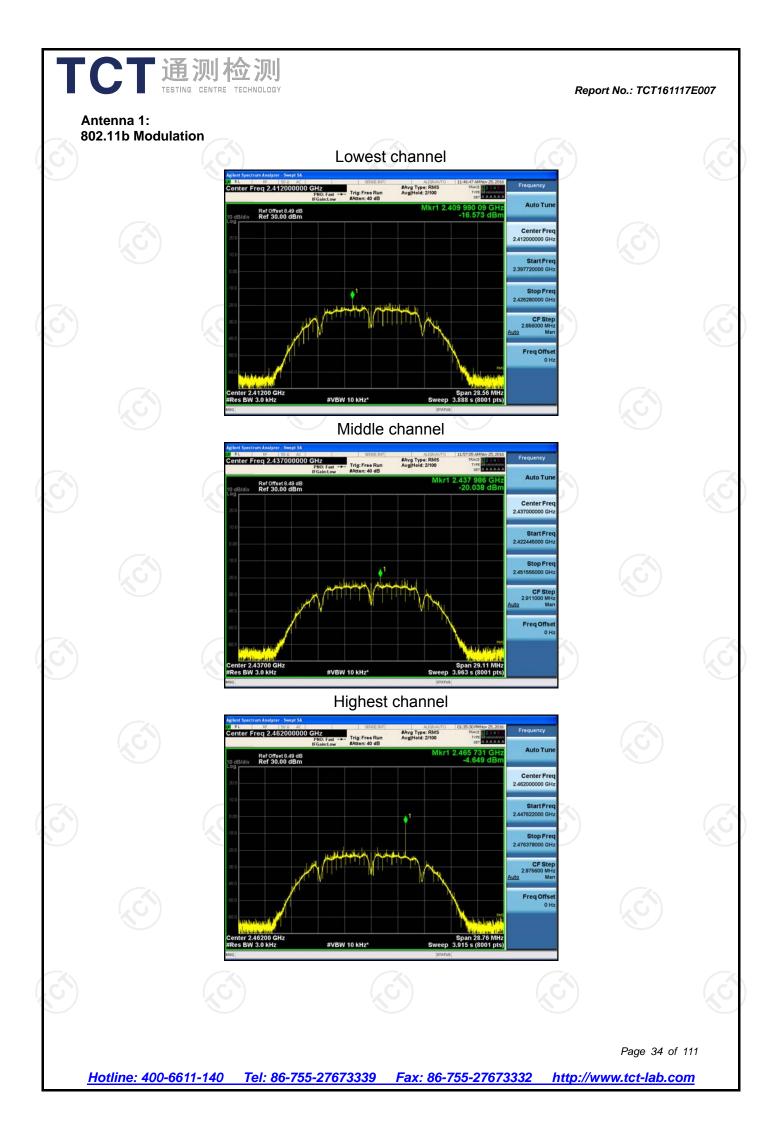
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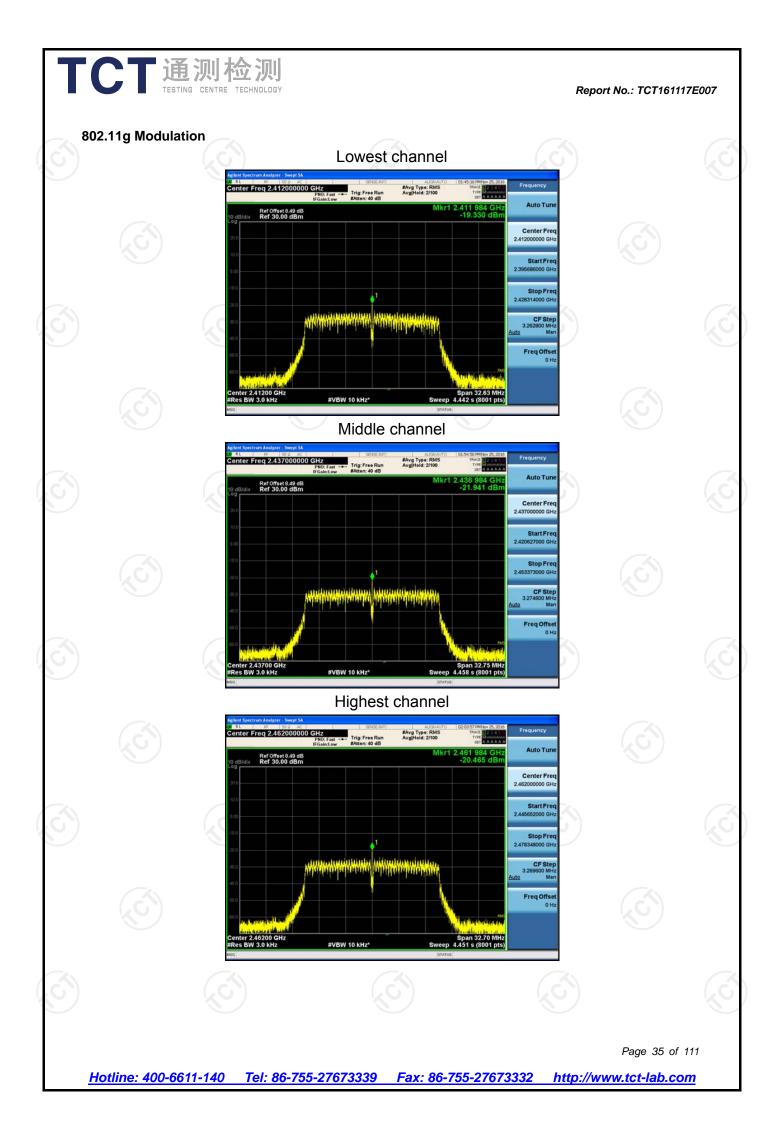
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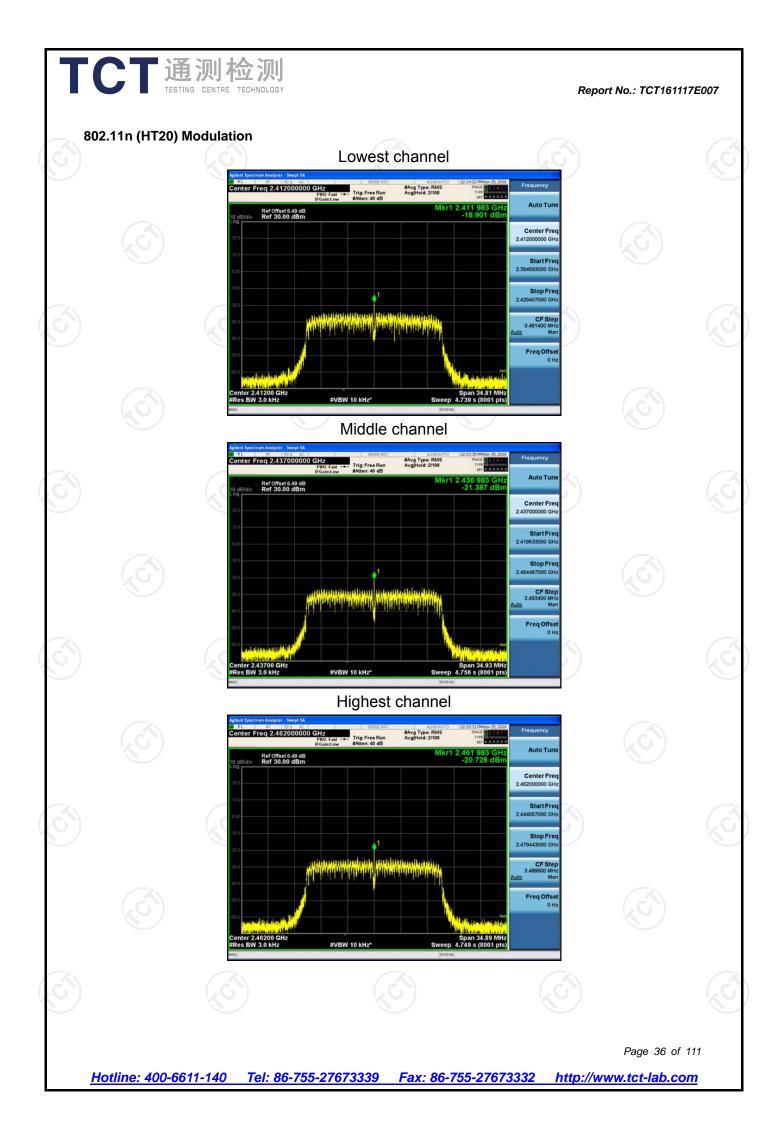
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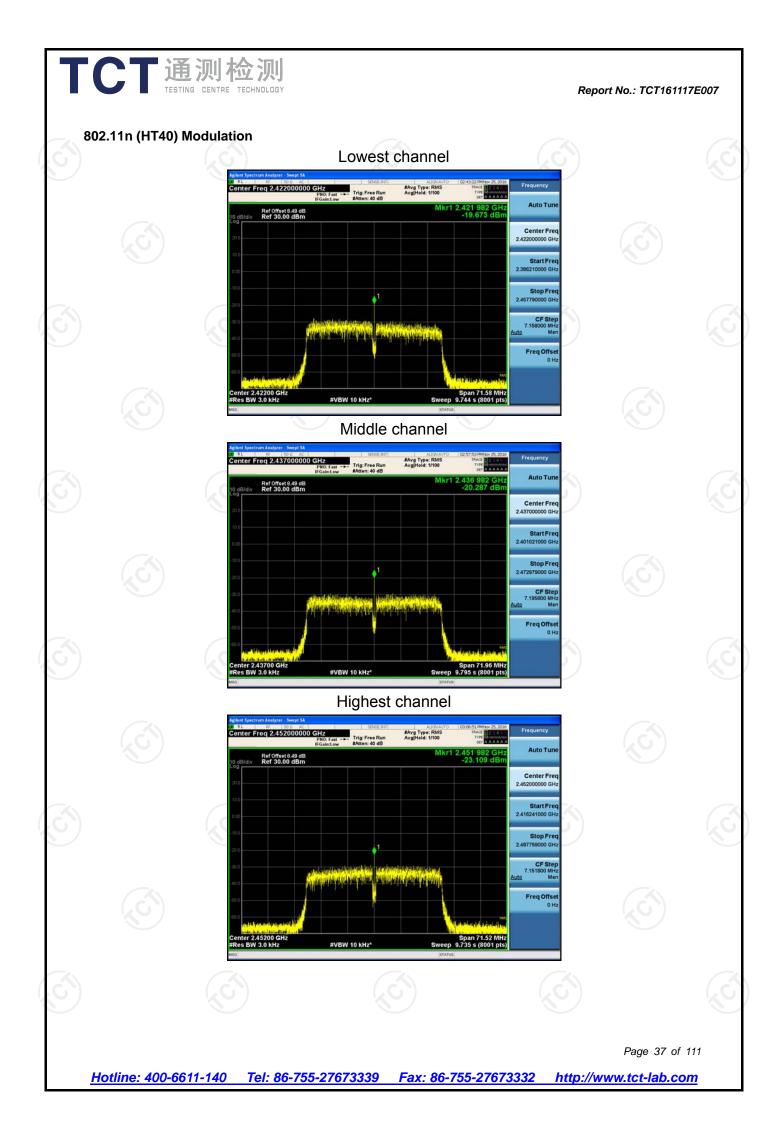
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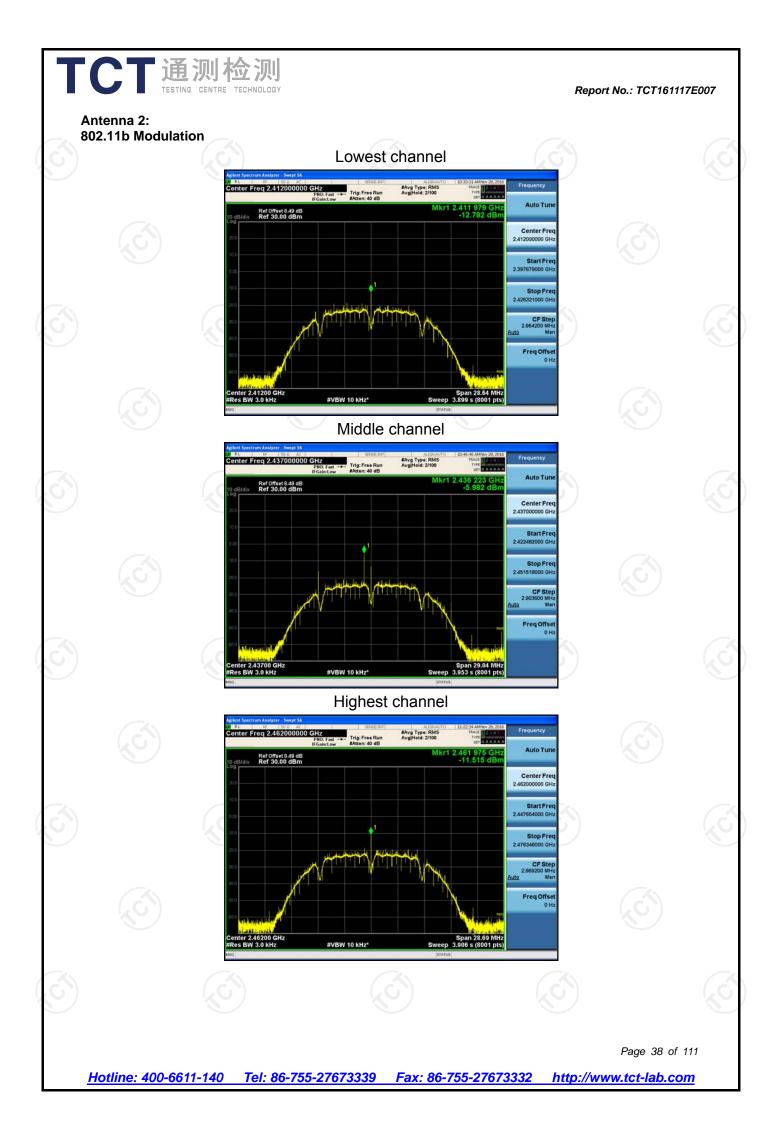
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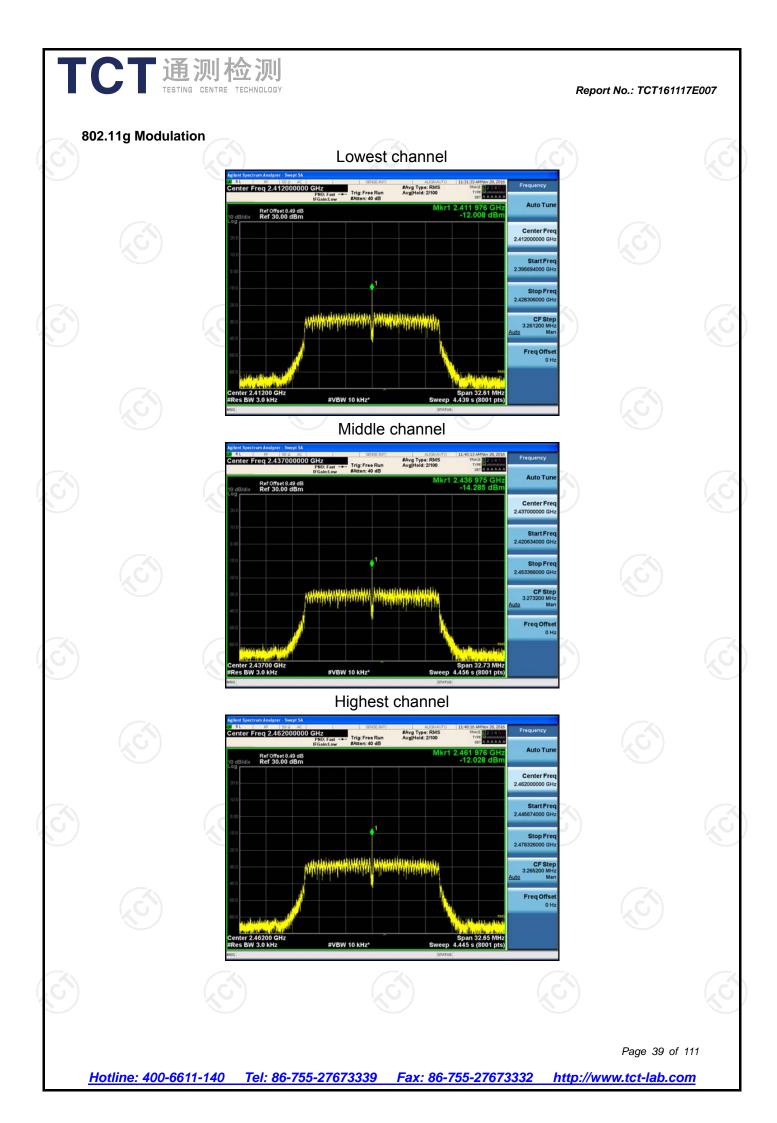


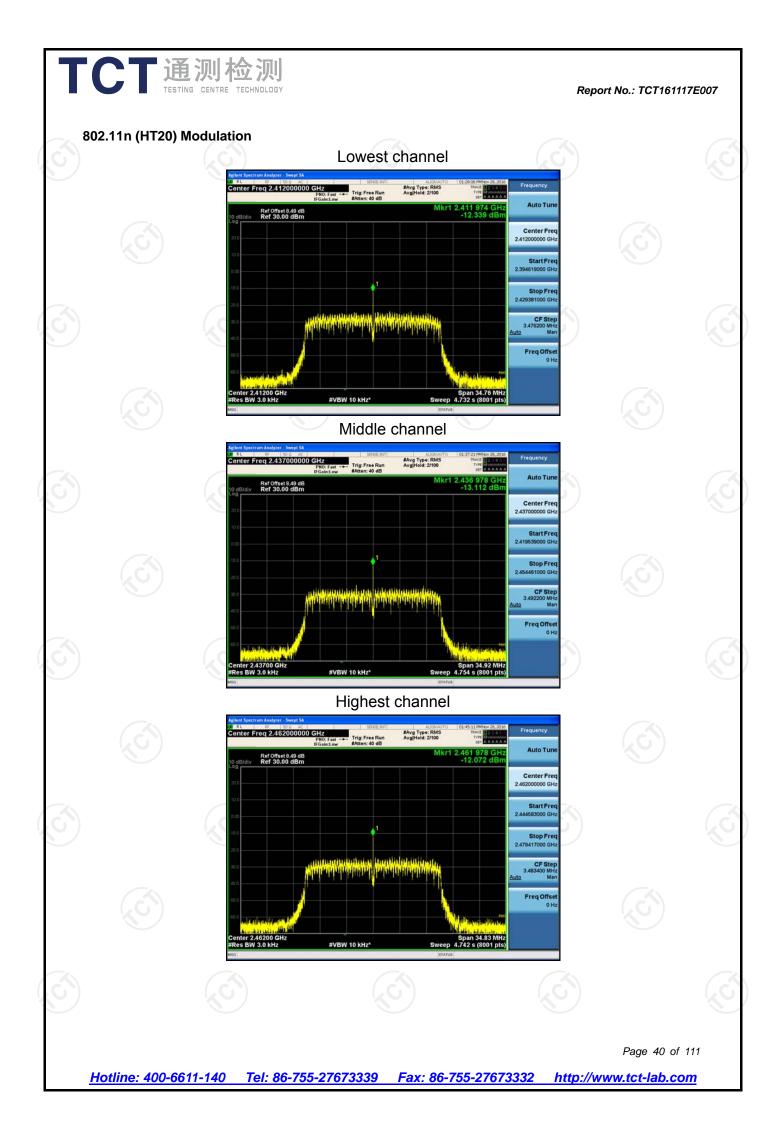


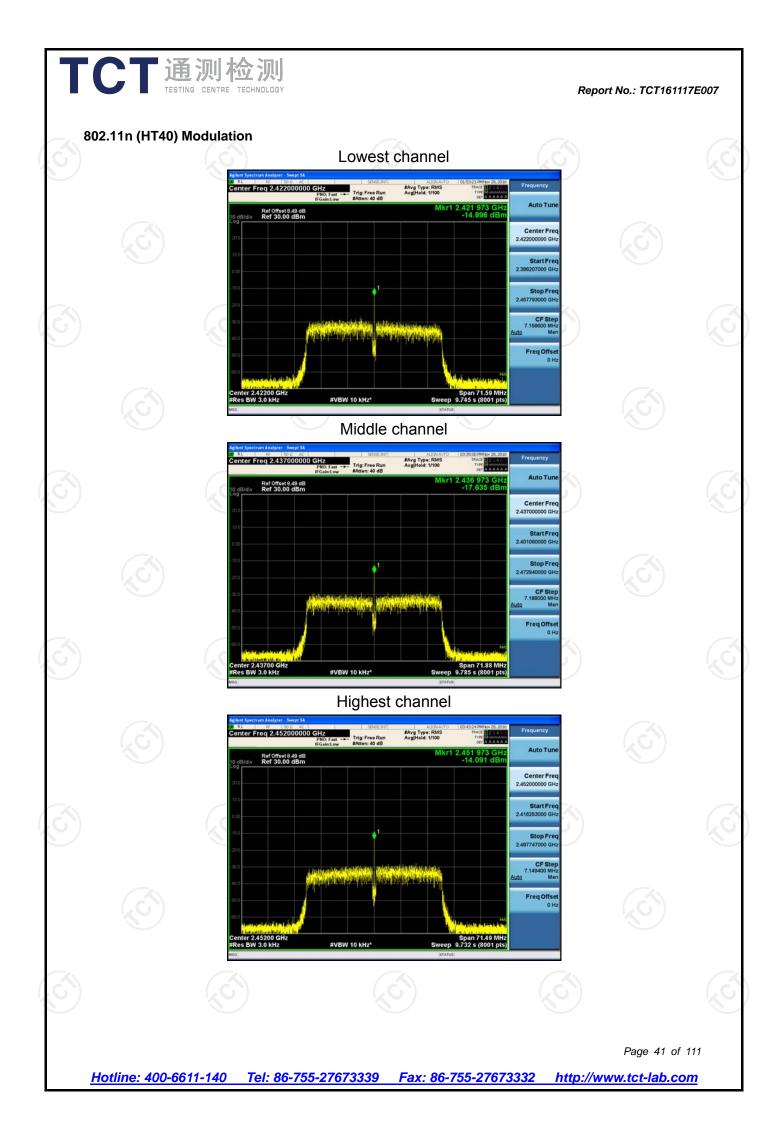












6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. 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:	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02. 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. Set to the maximum power setting and enable the EUT transmit continuously. 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). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS
(C)	

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http://www.tct-lab.com

6.7.2. Test Instruments

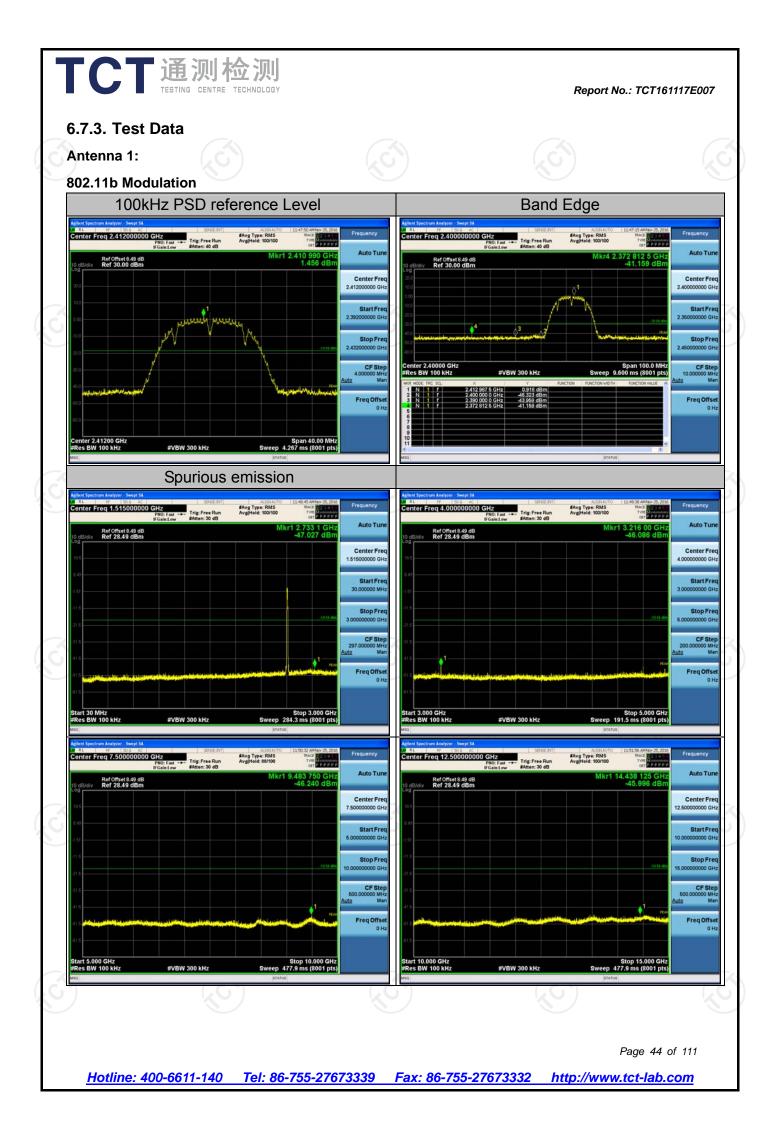
Hotline: 400-6611-140

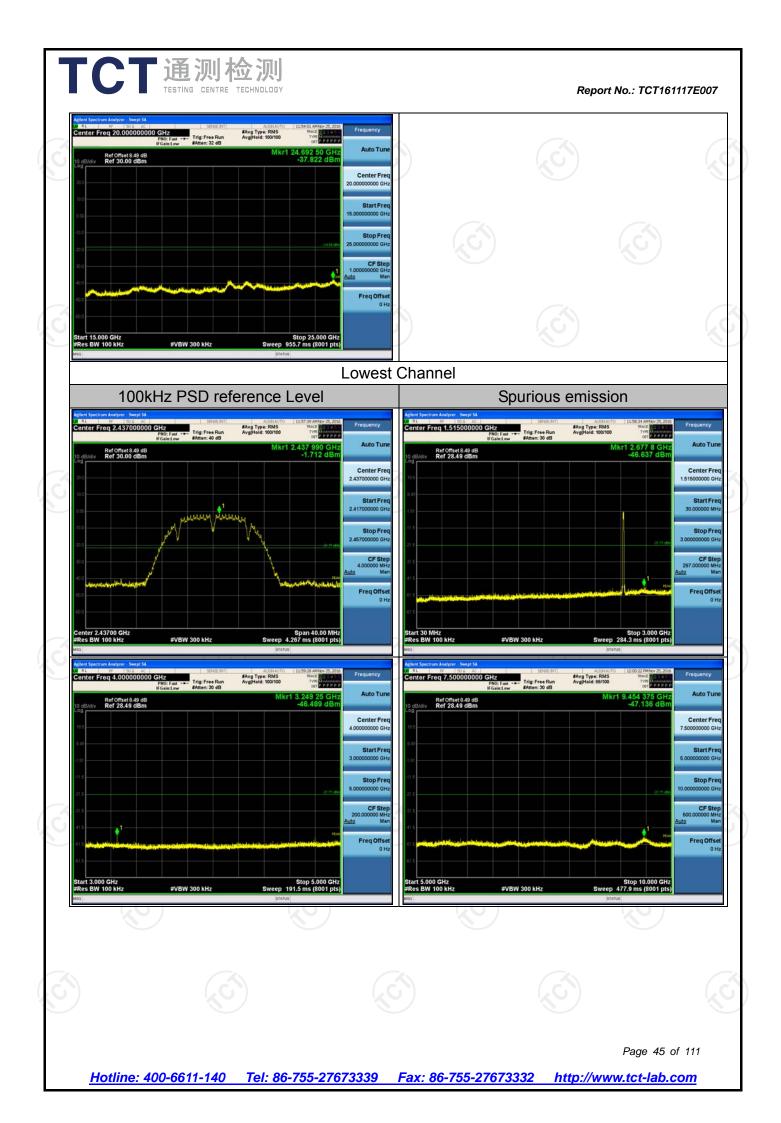
Tel: 86-755-27673339

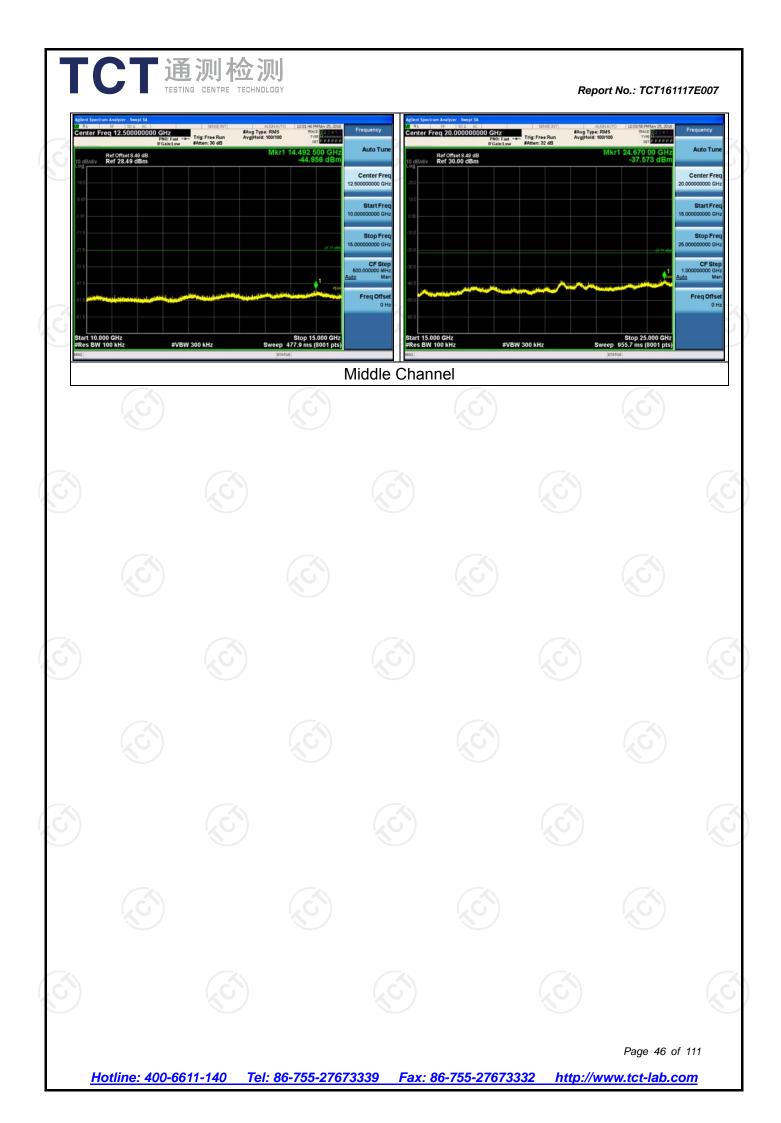
Fax: 86-755-27673332

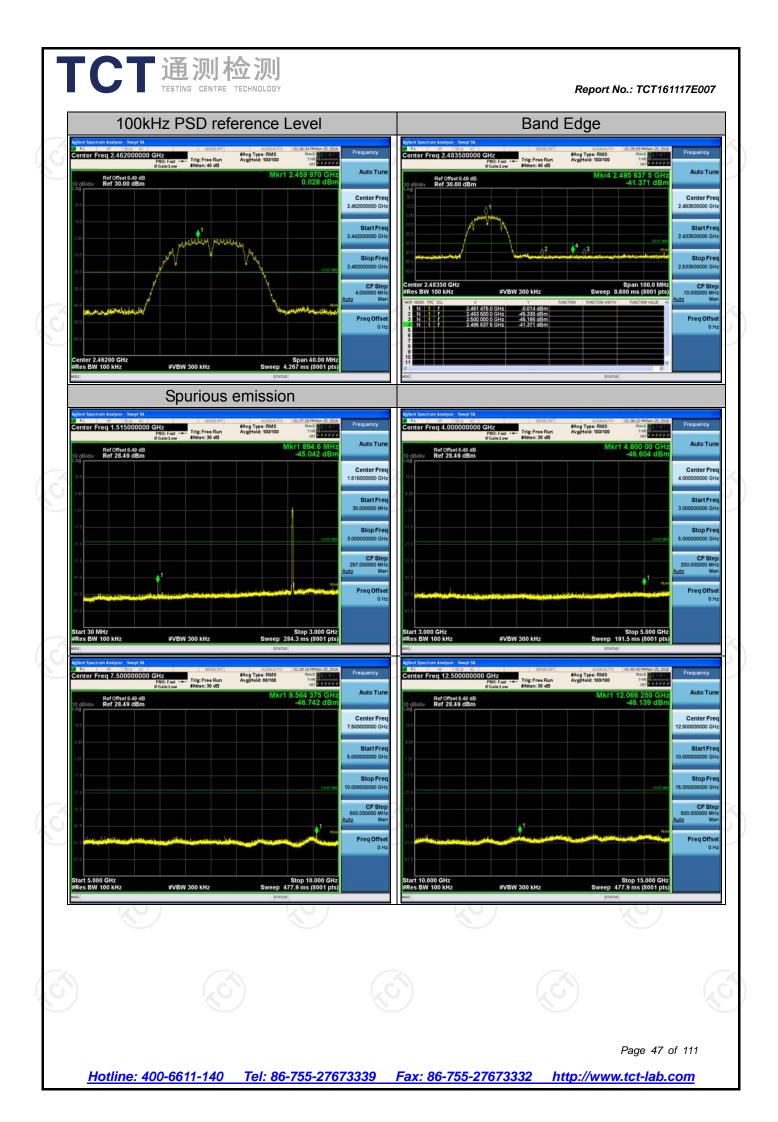
RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017						
RF cable	тст	RE-06	N/A	Aug. 12, 2017						
Antenna Connector	тст	RF-01	N/A	Aug. 12, 2017						

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

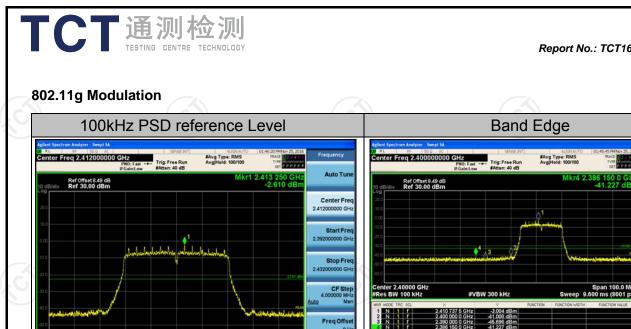








T	TCT通测检测 TESTING CENTRE TECHNOLOGY					Report No.: TCT161117E007		
Agine Spects 10 dtsidw 20 0 10 dtsidw 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0	um Aastyner, Swept SA From Control Control (2000) (Trig: Free Run &Avgiteld: #Atten: 32 dB	Mkr1 24.687 50 GHz -36.949 dBm - 36.949 dBm	Frequency Auto Tune Center Freq 0.00000000 GHz Start Freq 5.0000000 GHz Stoop Freq 5.0000000 GHz CFS tep 1.00000000 GHz do Man				Š
500 Start 15.0 #Res BW	100 GHz #VE	3W 300 kHz S	Stop 25.000 GHz Sweep 955.7 ms (8001 pts)	Freq Offset 0 Hz				S
			E CO	lighest Char	nnel			
н	otline: 400-60	611-140 Tel	: 86-755-2767	3339 Fax: 8	86-755-276733	332 http://w	Page 48 of	





TYPE TYPE DOUBLE Auto Tun Auto Tun .426 250 GH -47.412 dBr 4.473 750 GI -45.160 dB Ref Offset 8.49 dB Ref 28.49 dBm Ref Offset 8.49 dB Ref 28.49 dBm Center Free Center Free 12.5 Start Fre Start Fre Stop Fre Stop Fre CF Ste CF Ste Freq Offe Freq Offs Stop 15.000 GH Sweep 477.9 ms (8001 pt 10.000 GHz 5.000 GHz BW 100 kH Stop 10.000 GH Sweep 477.9 ms (8001 pt #VBW 300 kHz #VBW 300 kHz

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

Report No.: TCT161117E007

Frequency

Auto Tu

Center Fre

Start Fre

Stop Fre

CF Ste

Freq Offs

