TEST REPORT

「CT通测检测 TESTING CENTRE TECHNOLOGY

> FCC ID:2AG87DLM168N Product: Wi-Fi® Radio Transceiver Model No.: ACM-DB-3 Additional Model No.: DLM168 Trade Mark: N/A Report No.: TCT170221E008 Issued Date: Feb. 27, 2017

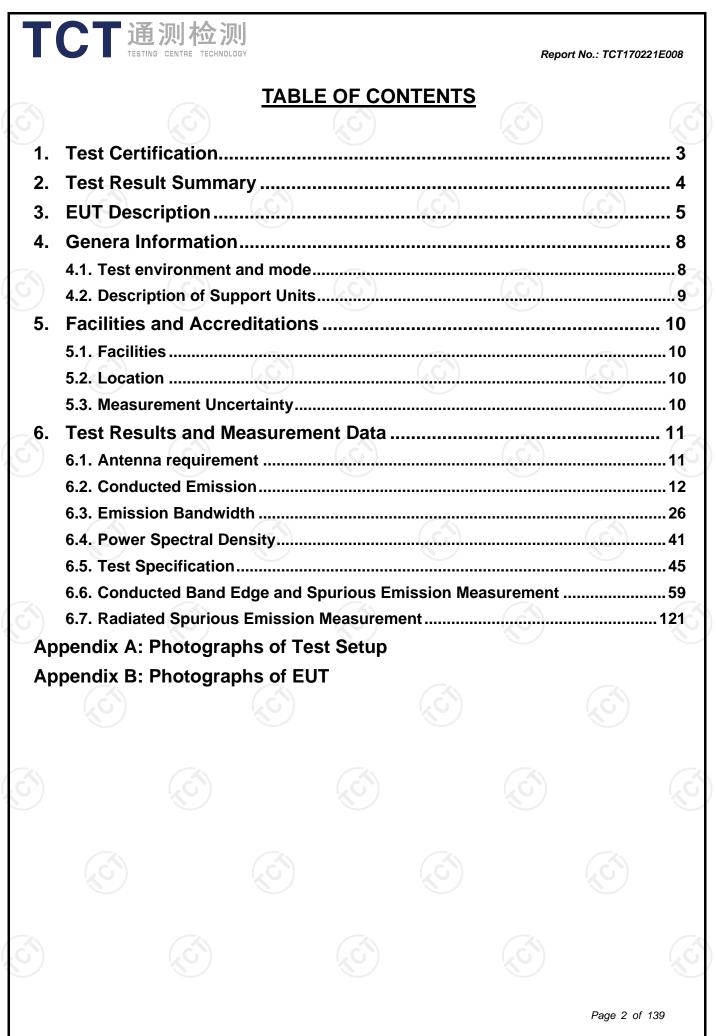
Issued for:

Doodle Labs (SG) Pte Ltd 150 Kampong Ampat, KA Centre, Suite #05-03, Singapore 368324

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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1. Test Certification

Product:	Wi-Fi® Radio Transceiver			
Model No.:	ACM-DB-3			
Additional Model No.:	DLM168			
Applicant:	Doodle Labs (SG) Pte Ltd			
Address:	150 Kampong Ampat, KA Centre, Suite #05-03, Singapore 368324			
Manufacturer:	Doodle Labs (SG) Pte Ltd			
Address:	150 Kampong Ampat, KA Centre, Suite #05-03, Singapore 368324			
Date of Test:	Jan. 14, 2016 – Feb. 24, 2017			
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 IC RSS-Gen(Issue 4, Nov. 2014) IC RSS-247(Issue 1, May 2015)			

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.

Than Tested By: Date: Feb. 24, 2017 Beryl Zhao **Reviewed By:** Feb. 27, 2017 Date: Joe Zhou omsm Approved By: Feb. 27, 2017 Date: Tomsin Page 3 of 139 Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

2. Test Result Summary

Requirement	CFR 47 Section	IC Rule	Result	
Antenna requirement	§15.203/§15.24 7 (c)	RSS-247, 5.4(6)	PASS	
AC Power Line Conducted Emission	§15.207	RSS-GEN, 8.8;	PASS	
Output Power	§15.247 (b)(3) §2.1046	RSS-247, 5.4 (4);	PASS	
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	RSS-GEN, 6.6; RSS-247, 5.2 (1);	PASS	
99% Bandwidth	§2.1049	RSS-Gen 4.6.1	PASS	
Power Spectral Density	§15.247 (e)	RSS-247, 5.2 (2);	PASS	
Band Edge	1§5.247(d)	RSS-GEN, 8.9; RSS-247, 5.5;	PASS	
Spurious Emission	§15.205/§15.20 9 §2.1053	RSS-247, 5.5;	PASS	

Note:

1. PASS: Test item meets the requirement.

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

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

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

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3. EUT Description

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. LOT Description			
Product Name:	Wi-Fi® Radio Transceiver		
Product Type:	WLAN(3TX, 3RX)		
Radio Type:	3x3 MIMO		
Model :	ACM-DB-3		
Additional Model:	DLM168		
Trade Mark:	N/A		
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:	R-SMA antenna		
Antenna Gain:	All are 3dBi		
Power Supply:	DC 3.3V		
Model difference :	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.		
Items	Description		
Beamforming Function	With beamforming		

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	$\begin{pmatrix} & G \end{pmatrix}$	

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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)

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

802.<u>11n (HT40)</u>

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

Antenna and Band width

Antenna			Three	e (TX)
Band width mode		20MHz		40MHz
IEEE 802.11b		V		X
IEEE 802.11g	8	V	S	x
IEEE 802.11n		V		V

Note: "V" means support, "x" means not support.

IEEE 802.11n Spec.

Protocol	Number of Transmit Chains (NTX)	Data Rate/MCS
802.11n(HT20)	3	MCS0-23
802.11n(HT40)	3	MCS0-23

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 mod	e:	Keep the EUT in continuous transmitting
		by select channel and modulations (The
		value of duty cycle is 98.46%)

The sample above 1GHz was placed 1.5m (0.8m below 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	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

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
Intel NUC	D54250WYKH	G6YK4390029 U	DOC	Intel

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.

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

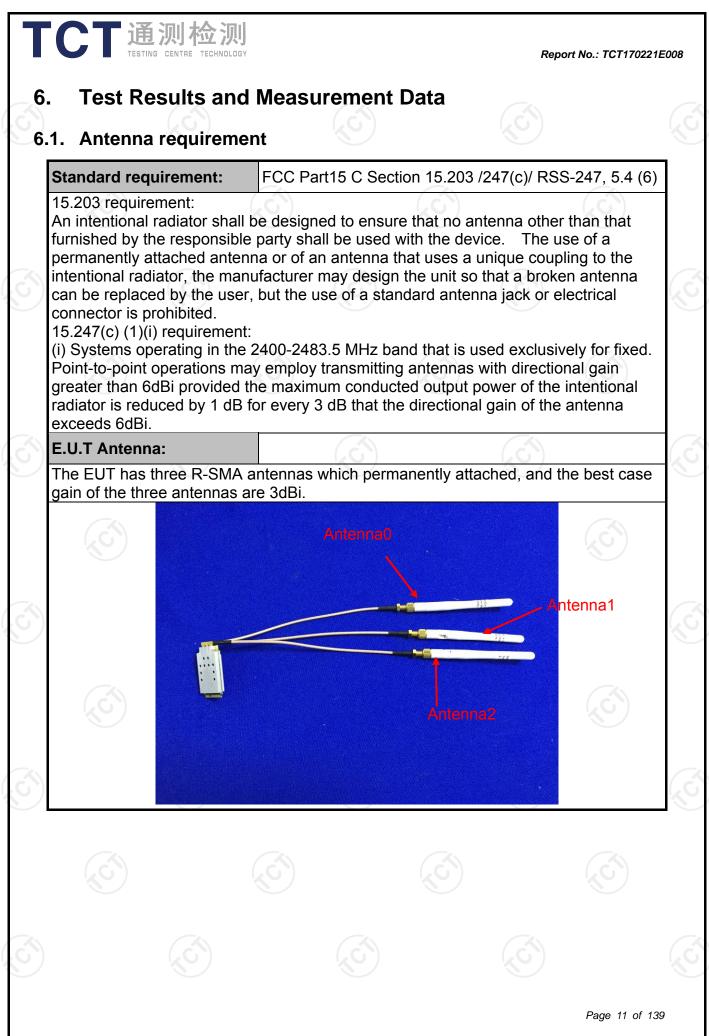
Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China Tel: 86-755-36638142

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 %.

		NALL.	
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	(S)
6	Temperature	±0.1°C	
7	Humidity	±1.0%	





Test Requirement:	FCC Part15 C Section	on 15.207/RSS-GE	N, 8.8				
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
_imits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 0.5-5 0.5-5 56 4 5-30 60 5						
	Refere	nce Plane					
Test Setup:	40cm E.U.T AC po Test table/Insulation pla Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne I EMI Receiver]— AC power				
Test Mode:	TX Mode						
Test Procedure:	 The E.U.T and simulators are connected to the mai power through a line impedance stabilization networ (L.I.S.N.). This provides a 50ohm/50uH couplin impedance for the measuring equipment. The peripheral devices are also connected to the mai power through a LISN that provides a 50ohm/50ul coupling impedance with 50ohm termination. (Pleas refer to the block diagram of the test setup an photographs). Both sides of A.C. line are checked for maximur conducted interference. In order to find the maximur emission, the relative positions of equipment and all of the interface cables must be changed according t ANSI C63.10: 2013 on conducted measurement. 						

6.2. Conducted Emission

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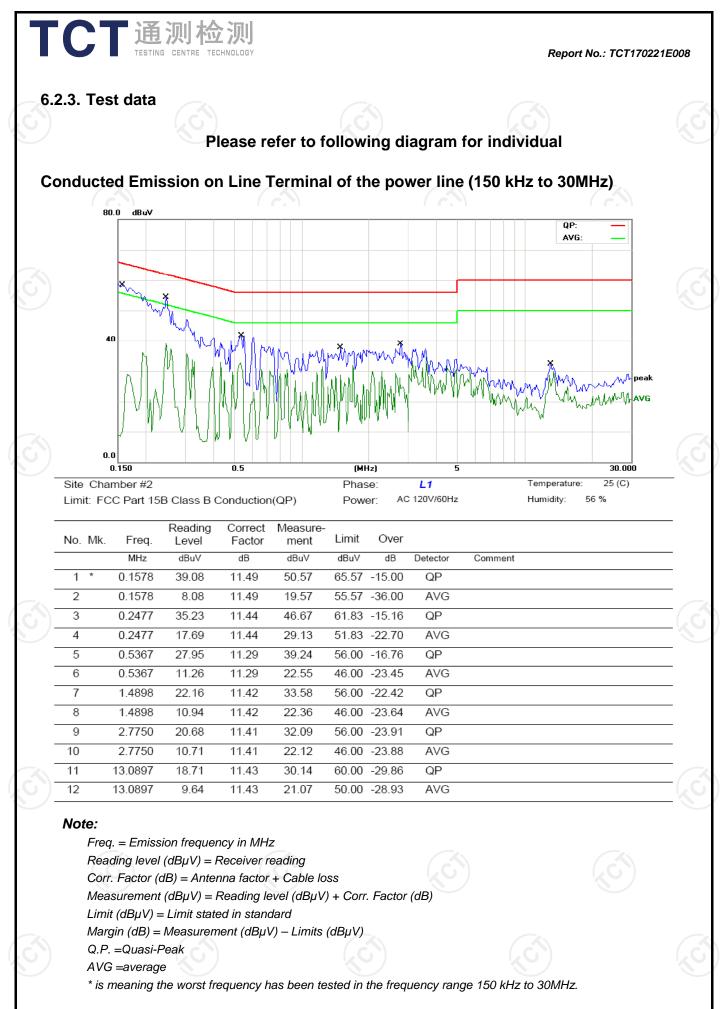
6.2.2. Test Instruments

TCT 通测检测 TESTING CENTRE TECHNOLOGY

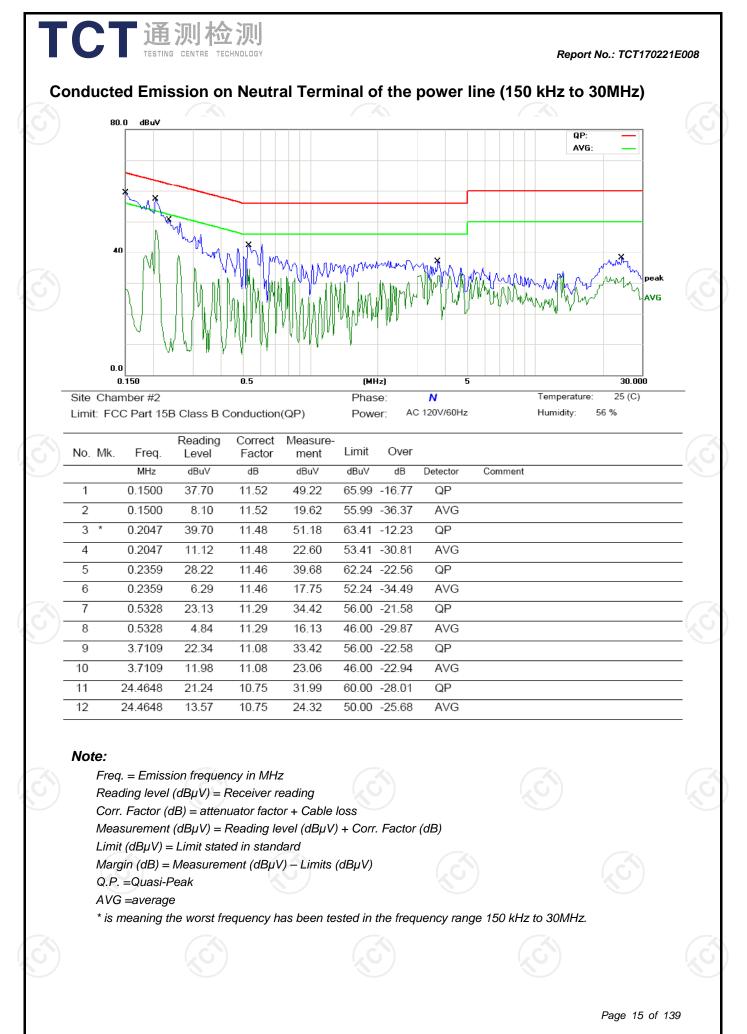
Hotline: 400-6611-140 Tel: 86-755-27673339

Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESCS30	100139	Sep. 11, 2016					
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 16, 2016					
Coax cable	тст	CE-05	N/A	Sep. 11, 2016					
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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2.5. Test Specification					
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)/RSS-247, 5.4 (4)				
Test Method:	KDB558074 and 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 v03r05. 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				

6.2.6. Test Instruments

Equipment	uipment Manufacturer		Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016	
RF cable	тст	RE-06	N/A	Sep. 12, 2016	
Antenna Connector	тст	RFC-01	N/A	Sep. 12, 2016	

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

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6.2.7. Test Data

Configuration IEEE 802.11b/ Antenna 0+Antenna 1+ Antenna 2							
Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result		
	Ant0	Ant1	Ant2	Total			
Lowest	17.83	17.78	17.07	22.34	28.20	PASS	
Middle	21.34	21.9	21.71	26.43	28.20	PASS	
Highest 17.50 18.12 15.92 22.05					28.20	PASS	

Configuration IEEE 802.11g/ Antenna 0+Antenna 1+ Antenna 2

Test channel		um Cond utput Po	•	Limit (dBm)	Result	
	Ant0	Ant1	Ant2	Total	(•)	. to built
Lowest	14.77	15.59	13.99	19.60	28.20	PASS
Middle	20.41	21.75	21.62	26.07	28.20	PASS
Highest	14.69	16.08	13.90	19.76	28.20	PASS

Configuration IEEE 802.11n(HT20)/ Antenna 0+Antenna 1+ Antenna 2							
Test channel		um Cond Jutput Po	•	Limit (dBm)	Result		
	Ant0	Ant1	Ant2	Total			
Lowest	14.73	15.47	13.79	19.49	28.20	PASS	
Middle	21.22	21.69	21.55	26.26	28.20	PASS	
Highest	14.62	15.97	13.70	28.20	PASS		

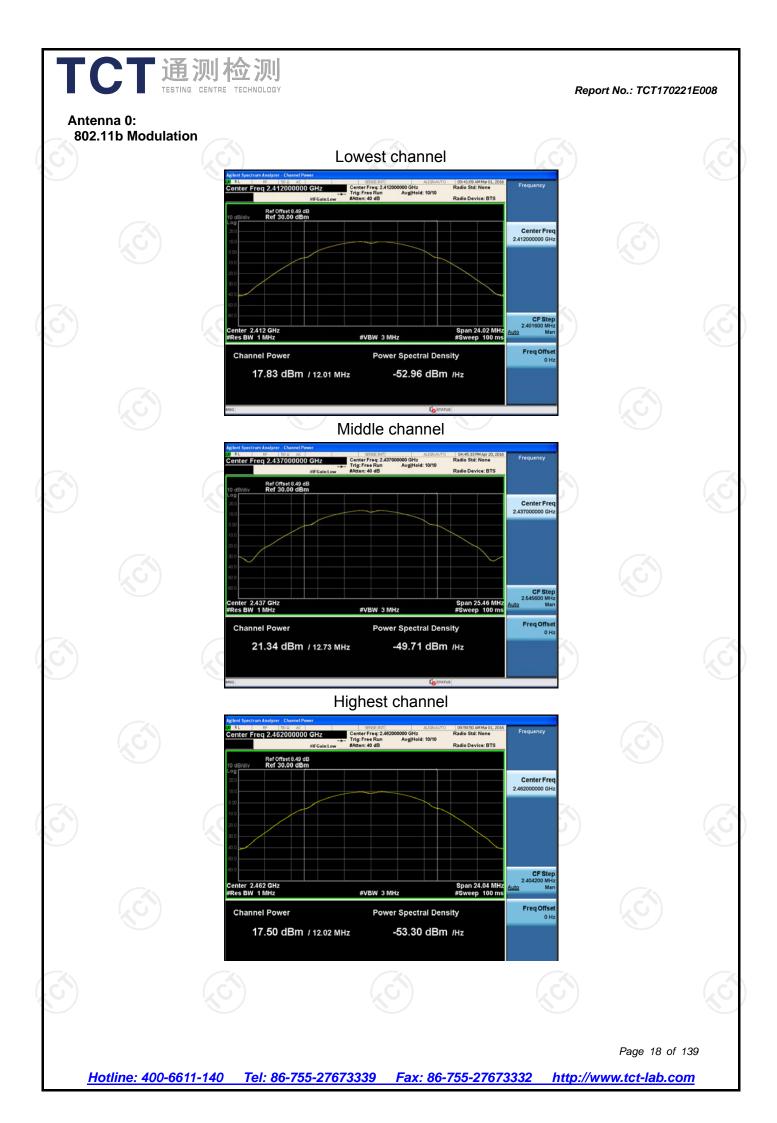
Configuration IEEE 802.11n(HT40)/ Antenna 0+Antenna 1+ Antenna 2

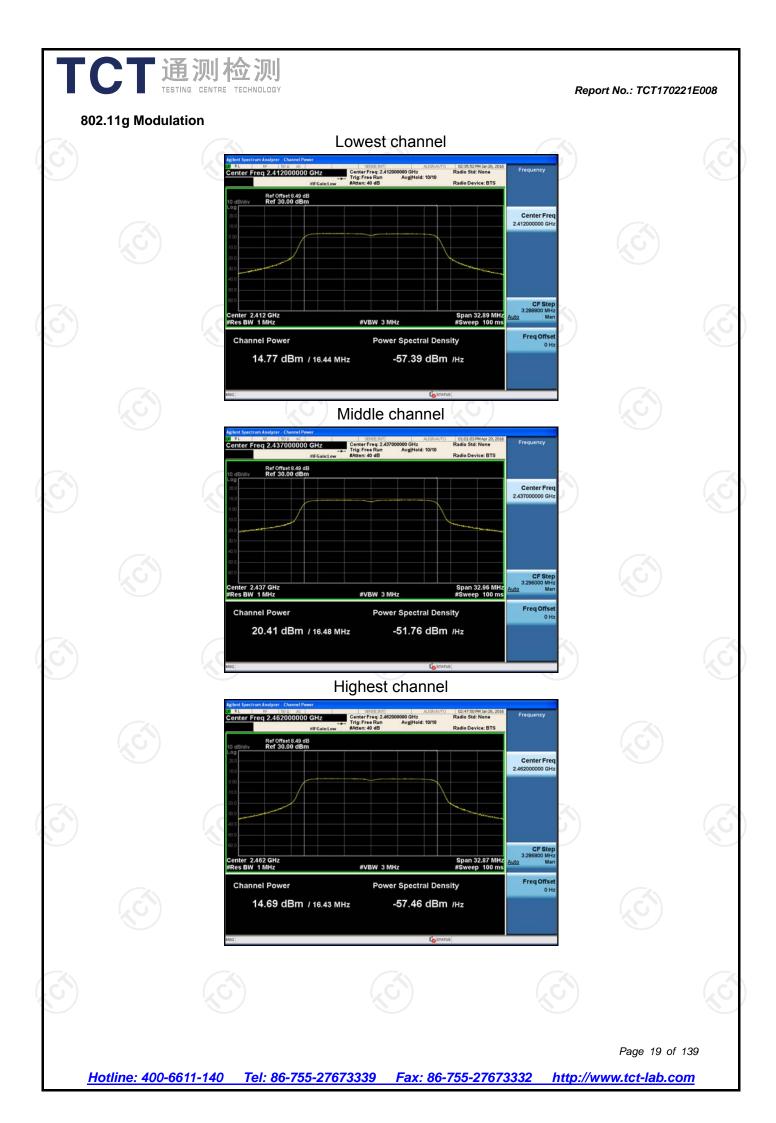
Test channel		um Cond Putput Po	•	Limit (dBm)	Result		
	Ant0	Ant1	Ant2	Total			
Lowest	9.74	9.86	9.57	14.50	28.20	PASS	
Middle	20.76	21.34	21.18	25.87	28.20	PASS	
Highest	9.97	10.25	9.79	14.78	28.20	PASS	

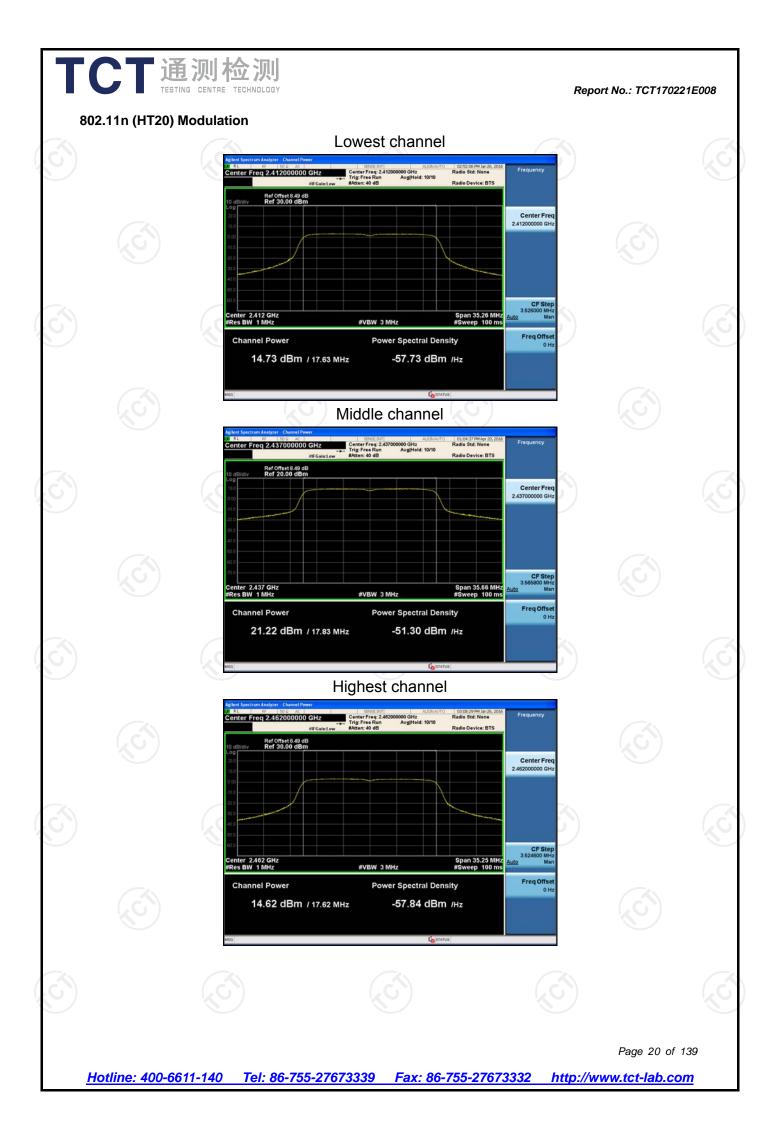
Note: G_{ANT}=3dBi, Array Gain=10log(N_{ANT}/N_{SS})=4.8dBi

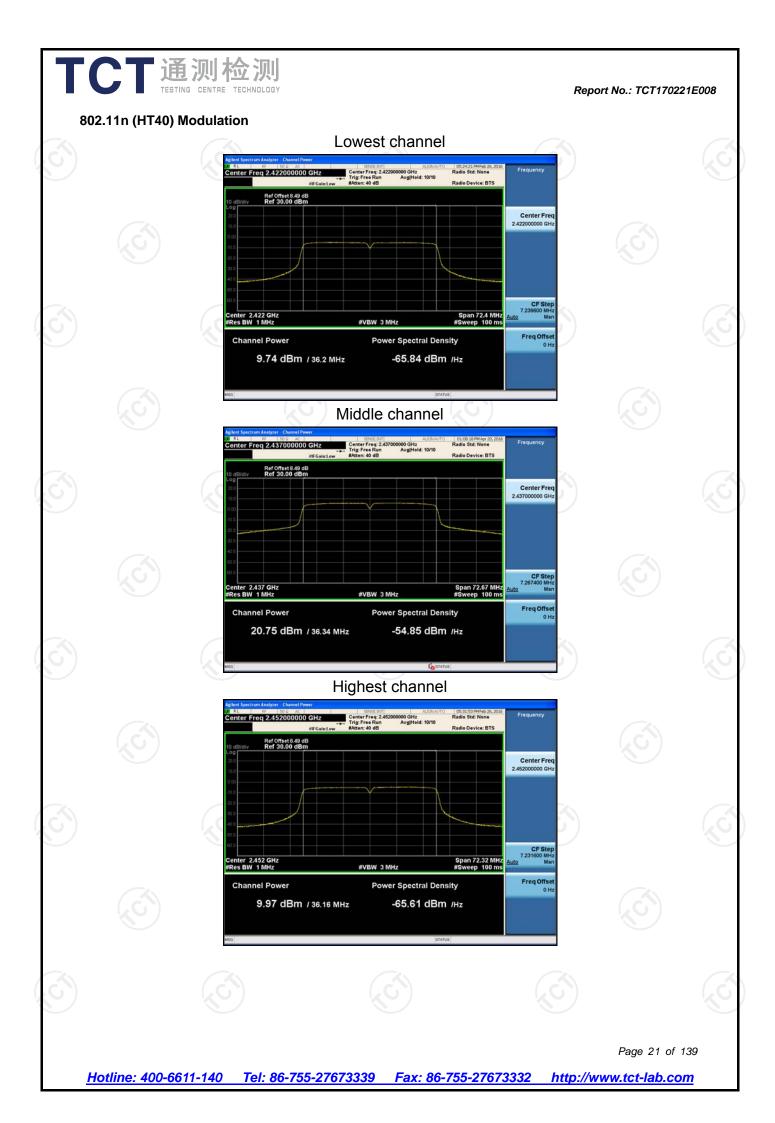
Directional Gain=G_{ANT} + Array Gain=7.8dBi, So limit=30-(7.8-6)=28.2dBm

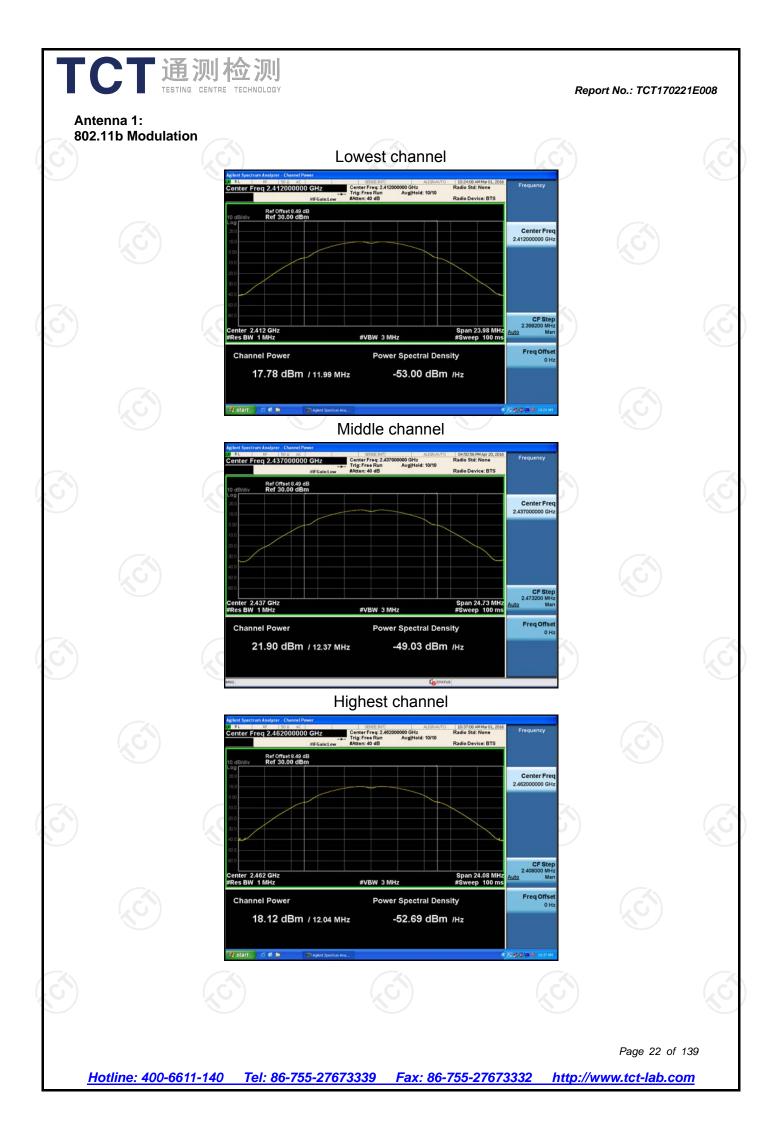
Test plots as follows:

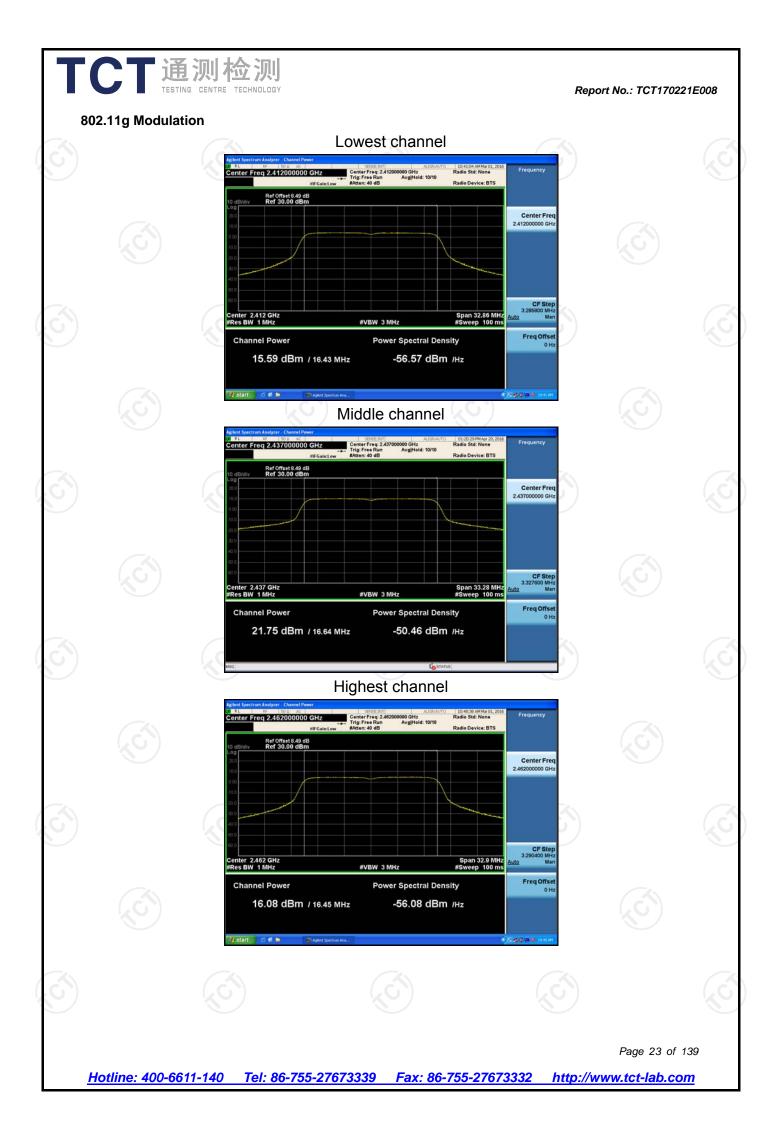


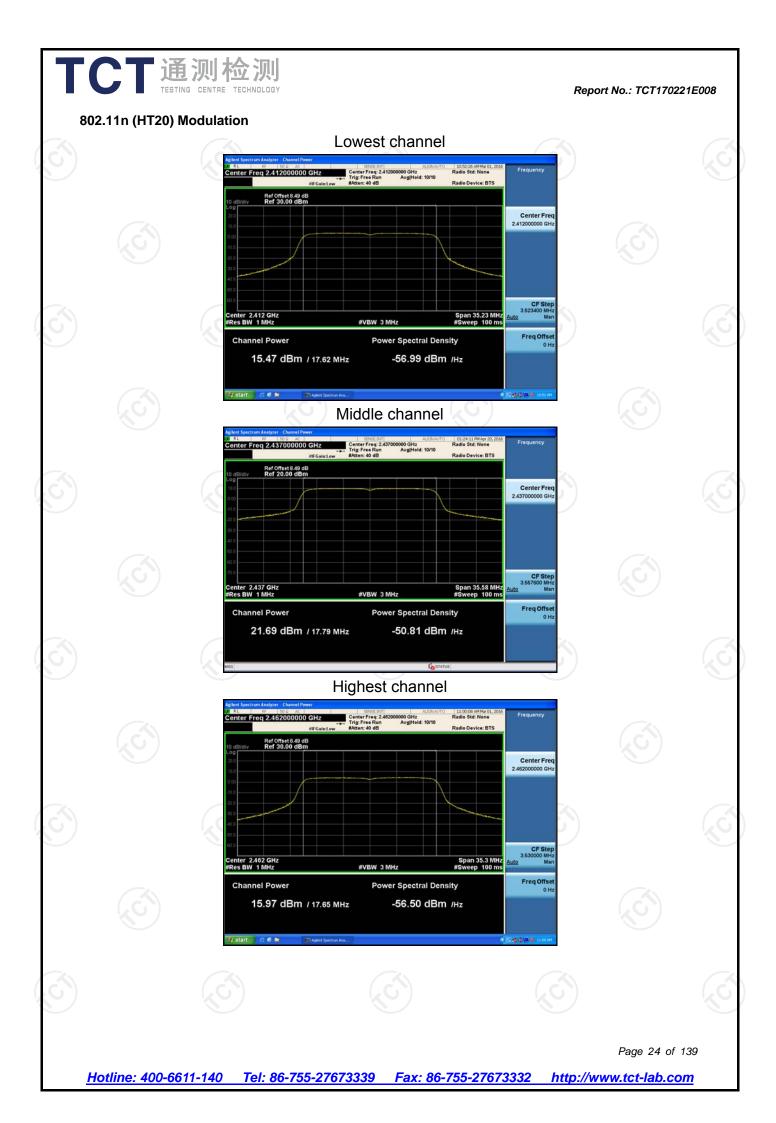


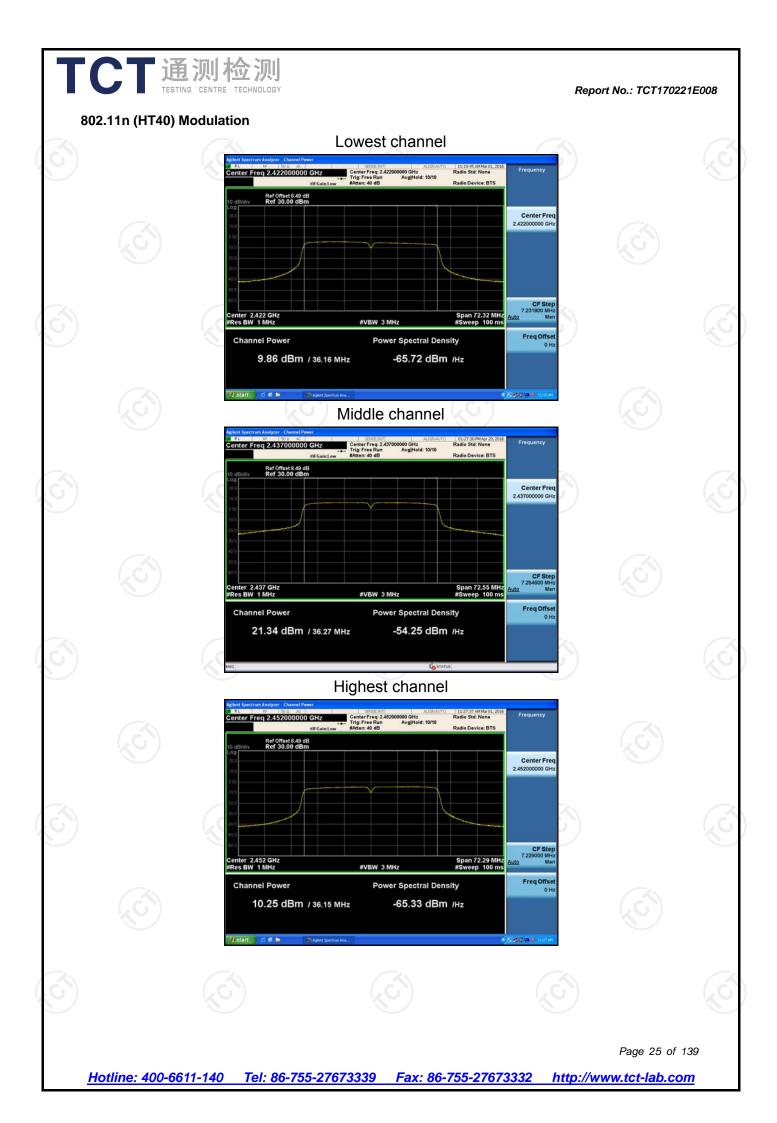


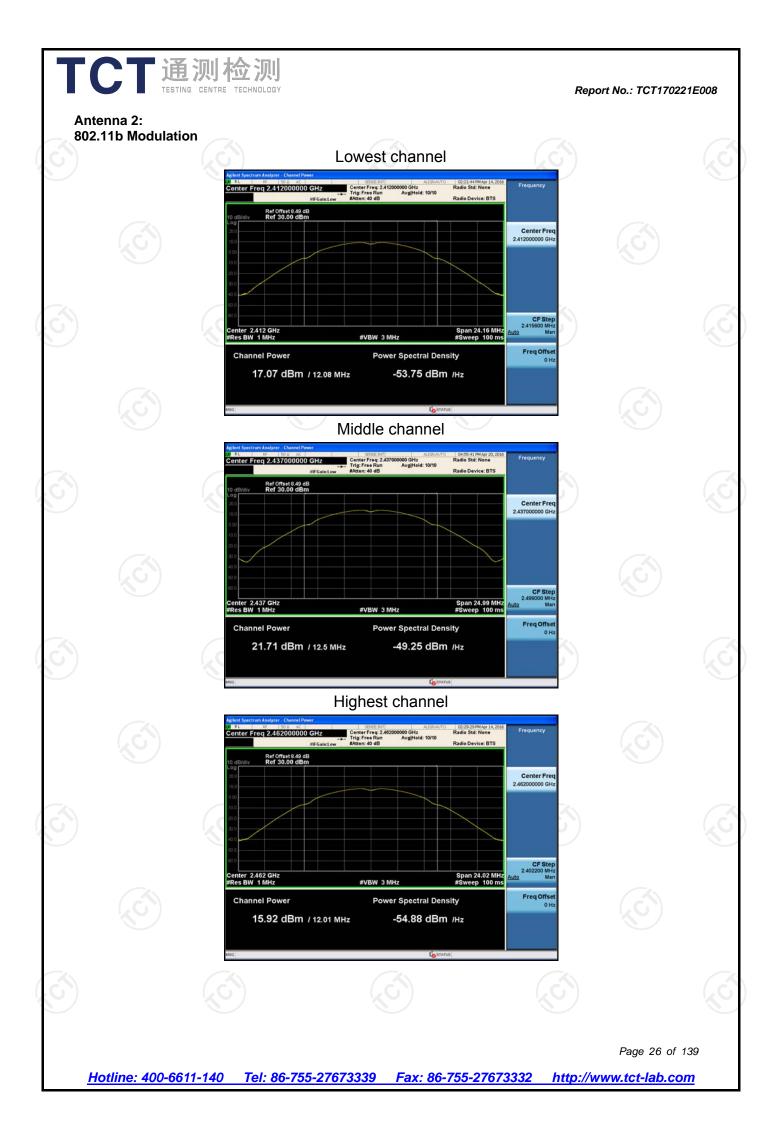


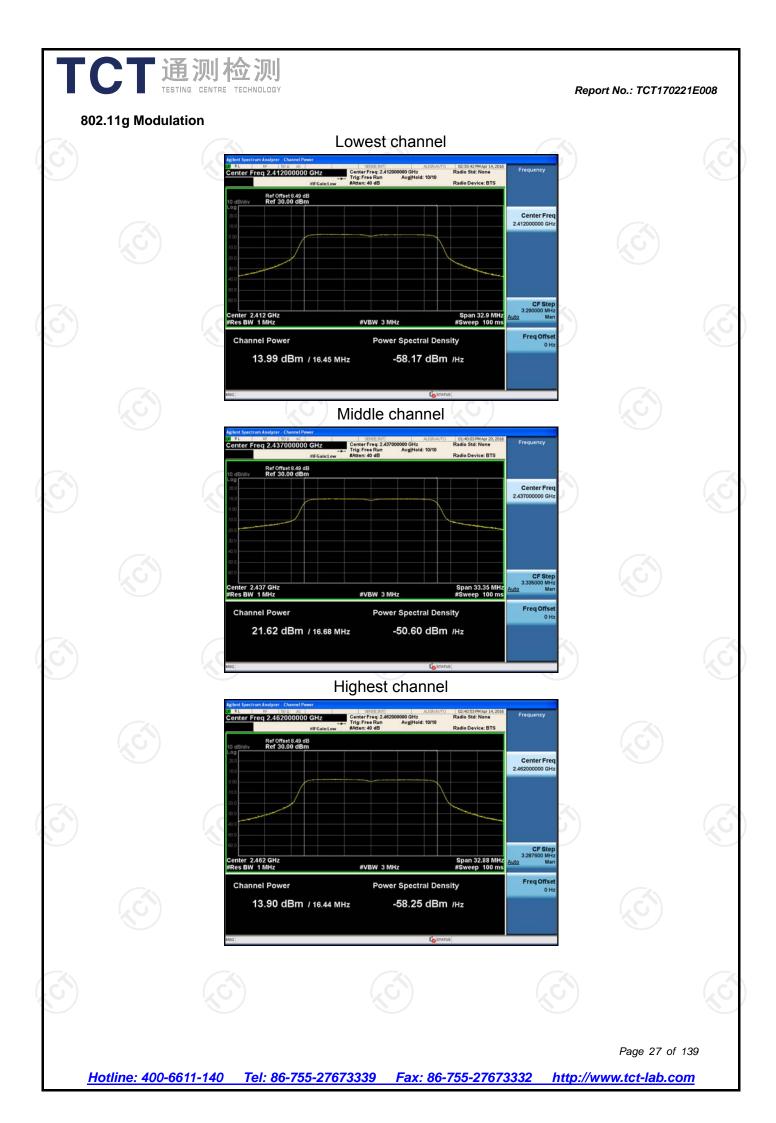


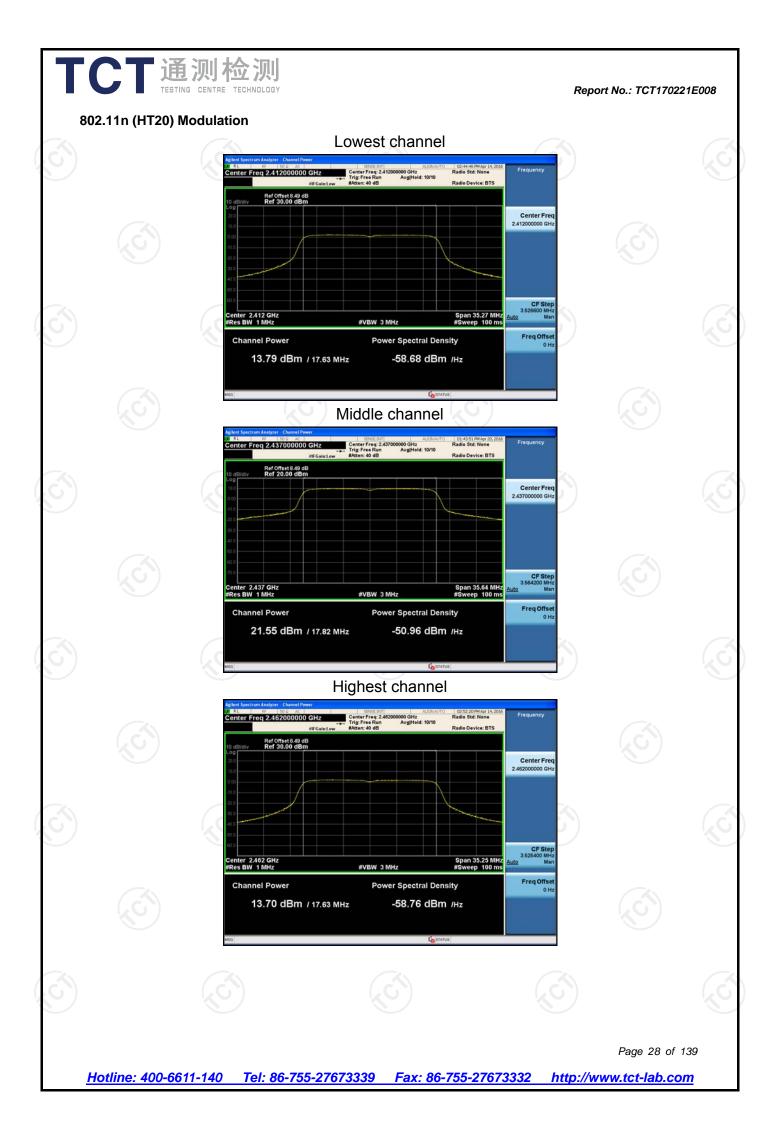


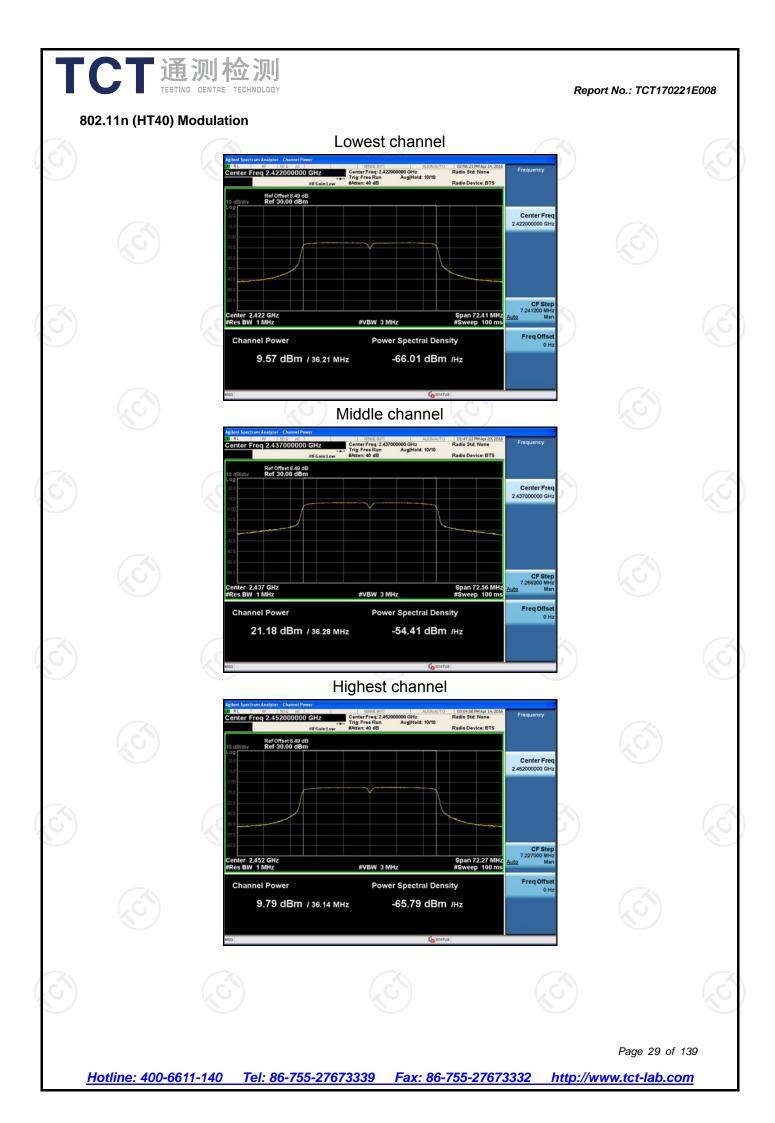












CT通测检测 3. Emission Bandwid 3.1. Test Specification	IJ Report No.: TCT170221E
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)/RSS-GEN, 6.6; RSS-247, 5.2(1)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05. 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. Set the spectrum to test 99%OBW. Measure and record the results in the test report.
Test Result:	PASS

6.3.2. Test Instruments

RF Test Room										
Equipment	Manufacturer	Manufacturer Model Se		Calibration Due						
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016						
RF cable	тст	RE-06	N/A	Sep. 12, 2016						
Antenna Connector	тст	RFC-01	N/A	Sep. 12, 2016						

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

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Antenna 0:		(χO^{*})	(<u>k</u> G')	
Test sharped	6dB Emission Bandwidth (MHz)			
Test channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	7.07	16.52	17.54	36.47
Middle	7.55	15.73	17.02	36.40
Highest	7.09	16.35	17.58	36.41
Limit:	>500k			
Test Result:	PASS			

Antenna 1:

Test channel	6dB Emission Bandwidth (MHz)			
Test channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	7.04	16.47	17.59	36.33
Middle	7.10	16.52	17.54	36.39
Highest	7.05	16.47	17.63	36.35
Limit:	>500k			
Test Result:	PASS			

Antenna 2:

Test channel	6dB Emission Bandwidth (MHz)			
Test channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	7.09	16.32	17.69	36.54
Middle	7.06	16.42	17.65	35.67
Highest	7.56	16.51 📉	17.61	36.39
Limit:	>500k			
Test Result:	PASS			



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Antenna 0:

Test channel	99% Emission Bandwidth (MHz)			
rest channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	12.01	16.44	17.63	36.20
Middle	12.73	16.48	17.83	36.34
Highest	12.02	16.43	17.62	36.16
Limit:	>500k			
Test Result:	PASS			

Antenna 1:

Test channel	99% Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	11.99	16.43	17.62	36.16
Middle	12.37	16.64	17.79	36.27
Highest	12.04	16.45	17.65	36.15
Limit:	>500k			
Test Result:	PASS			

Antenna 2:

Test channel	99% Emission Bandwidth (MHz)			
lest channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	12.08	16.45	17.63	36.21
Middle	12.50	16.68	17.82	36.28
Highest	12.01	16.44	17.63	36.14
Limit:		>500k		(\mathbf{c})
Test Result:	PASS			

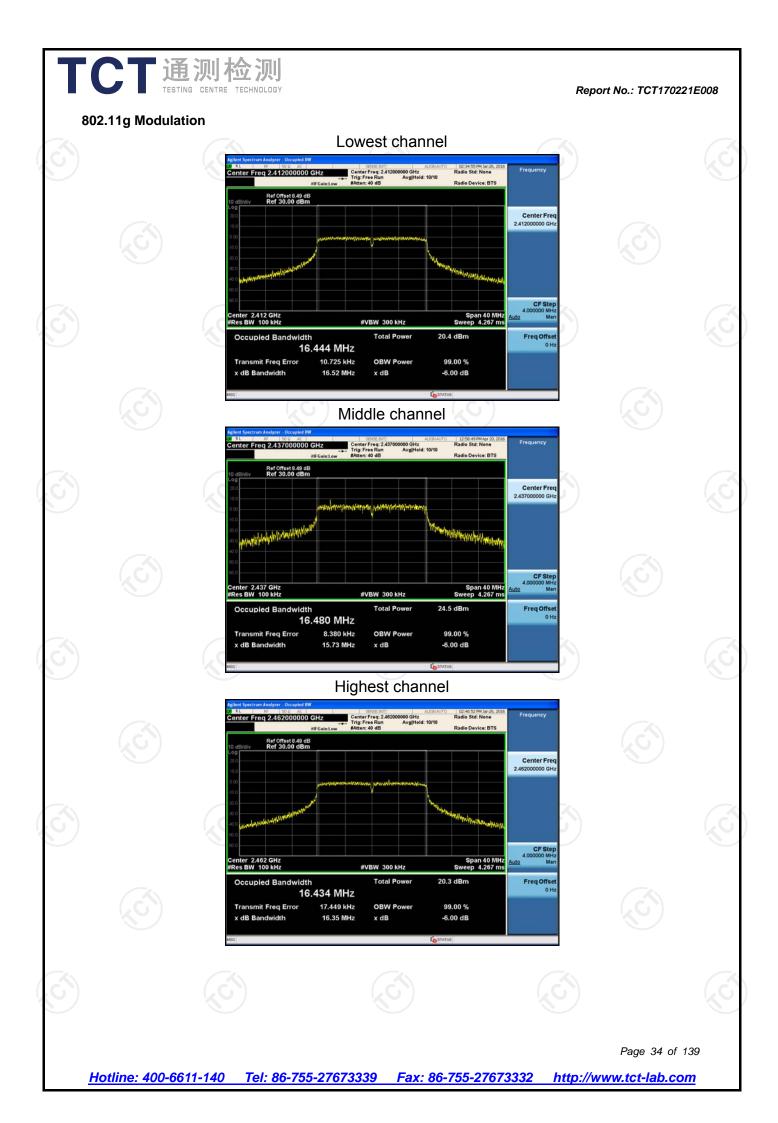
Test plots as follows:

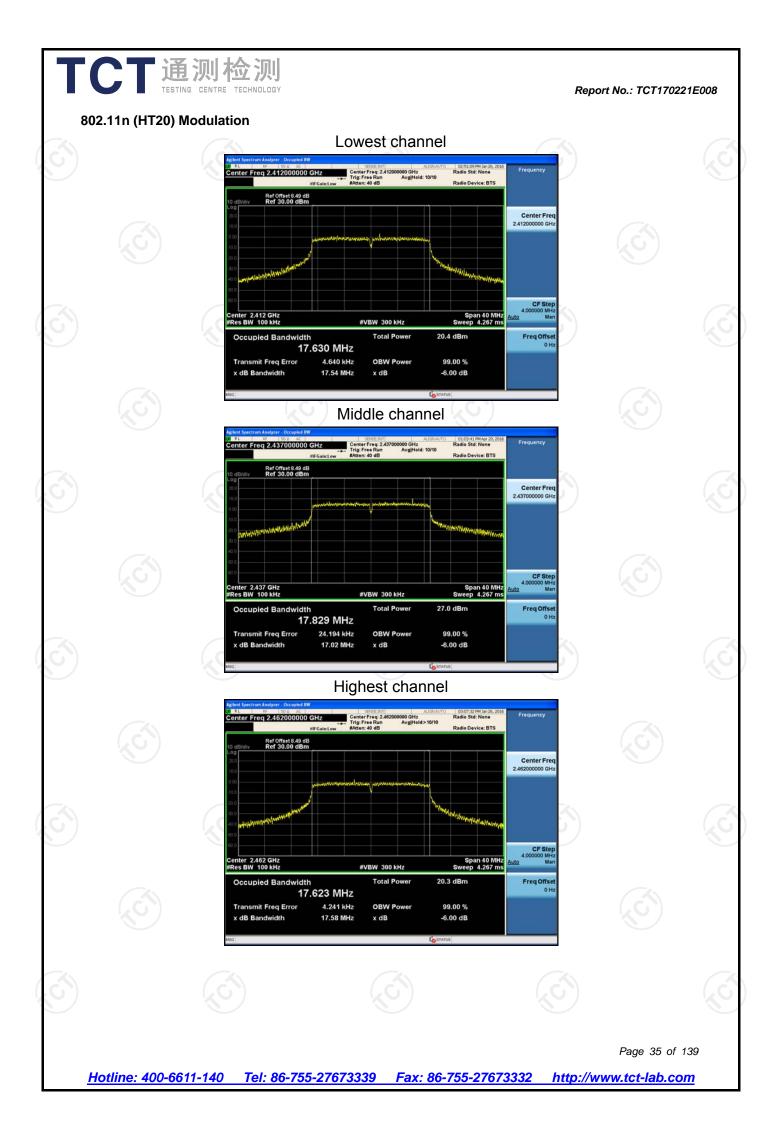


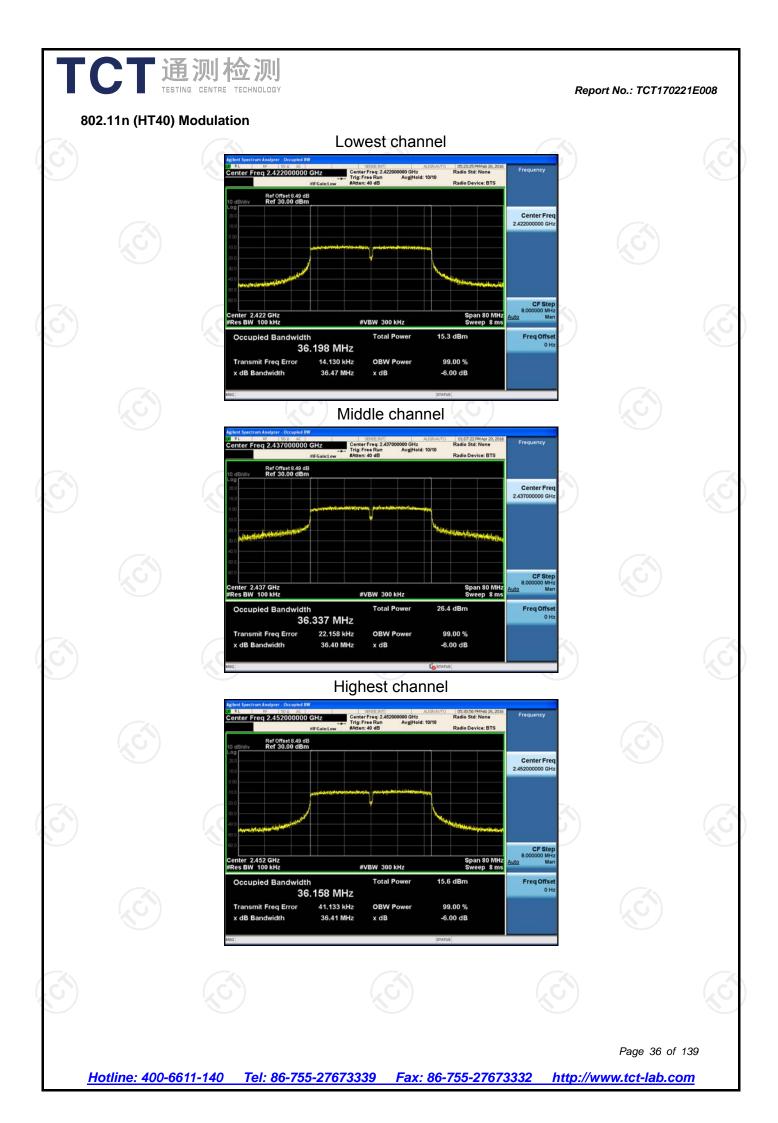


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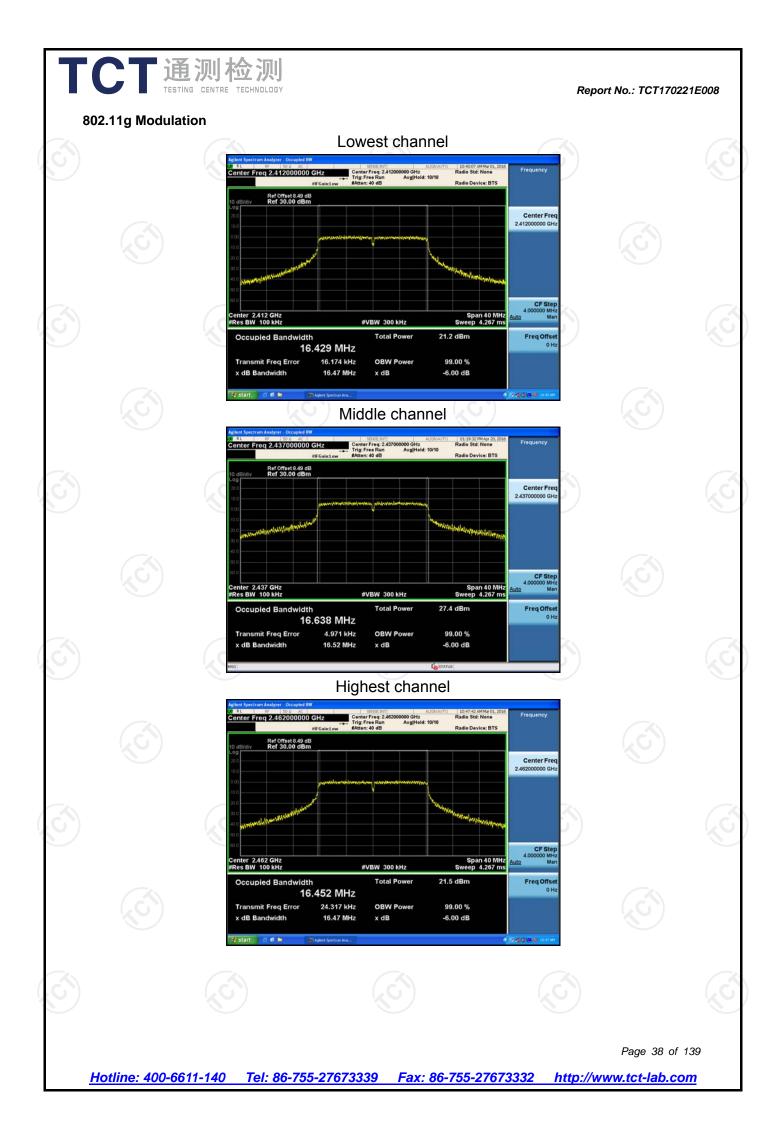


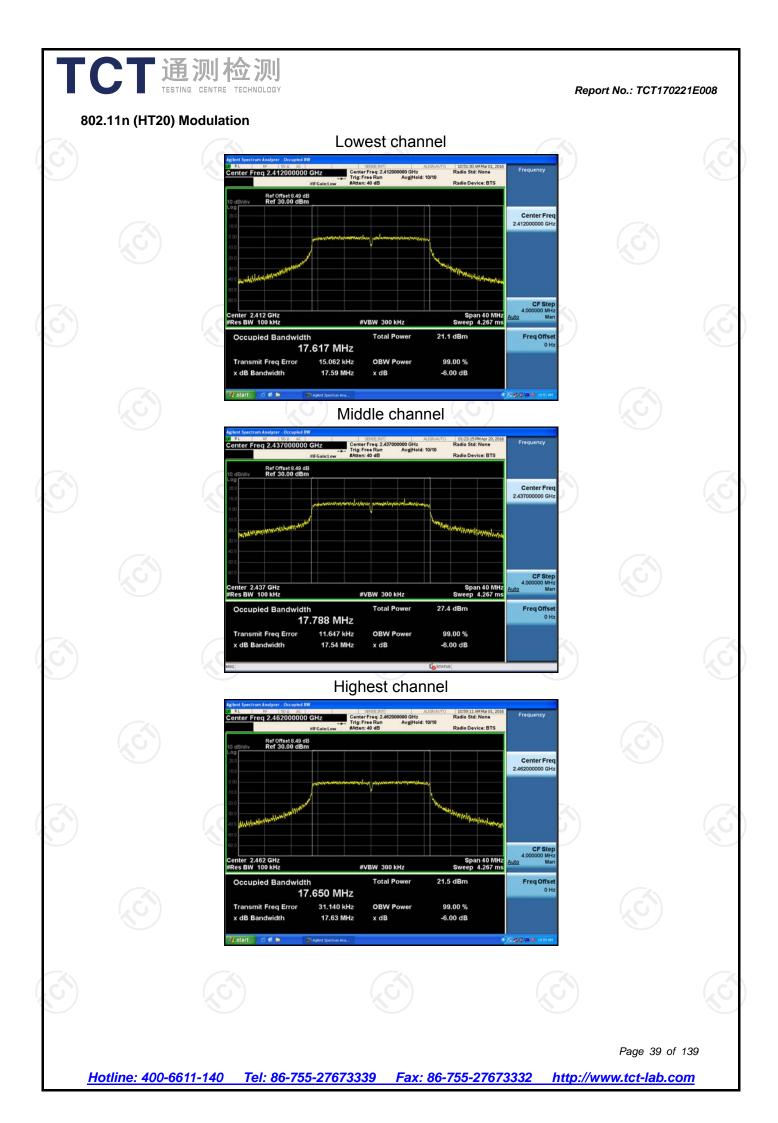


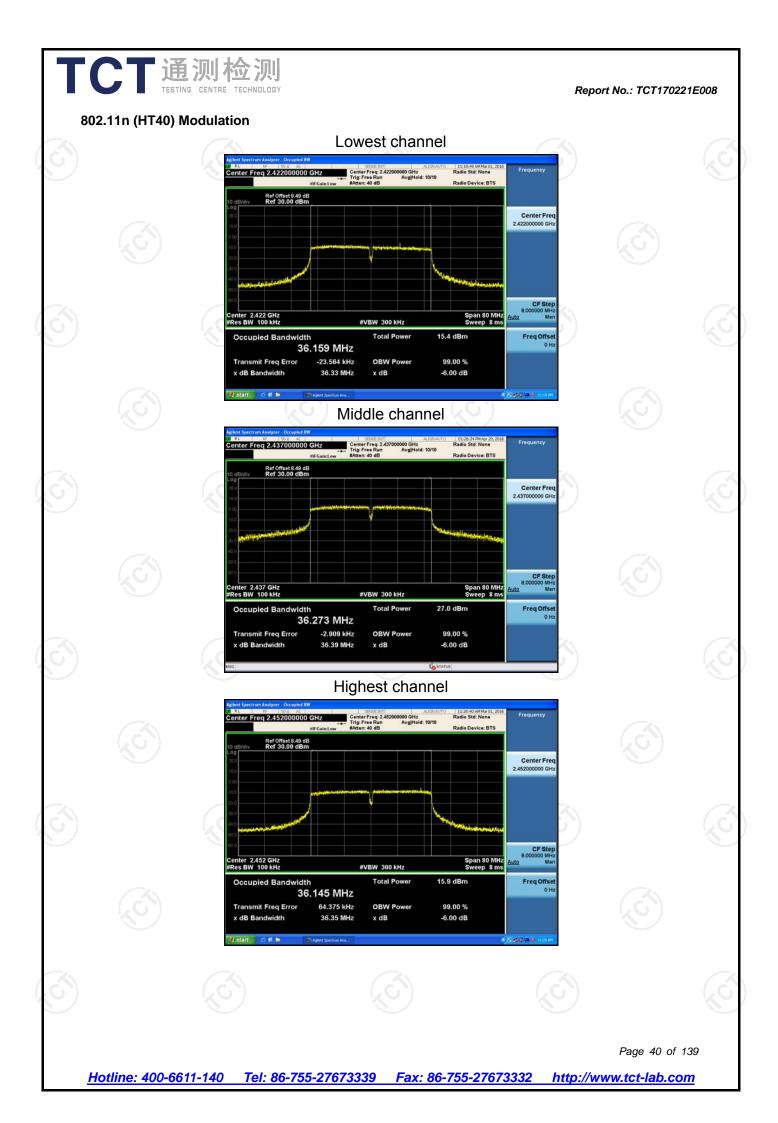




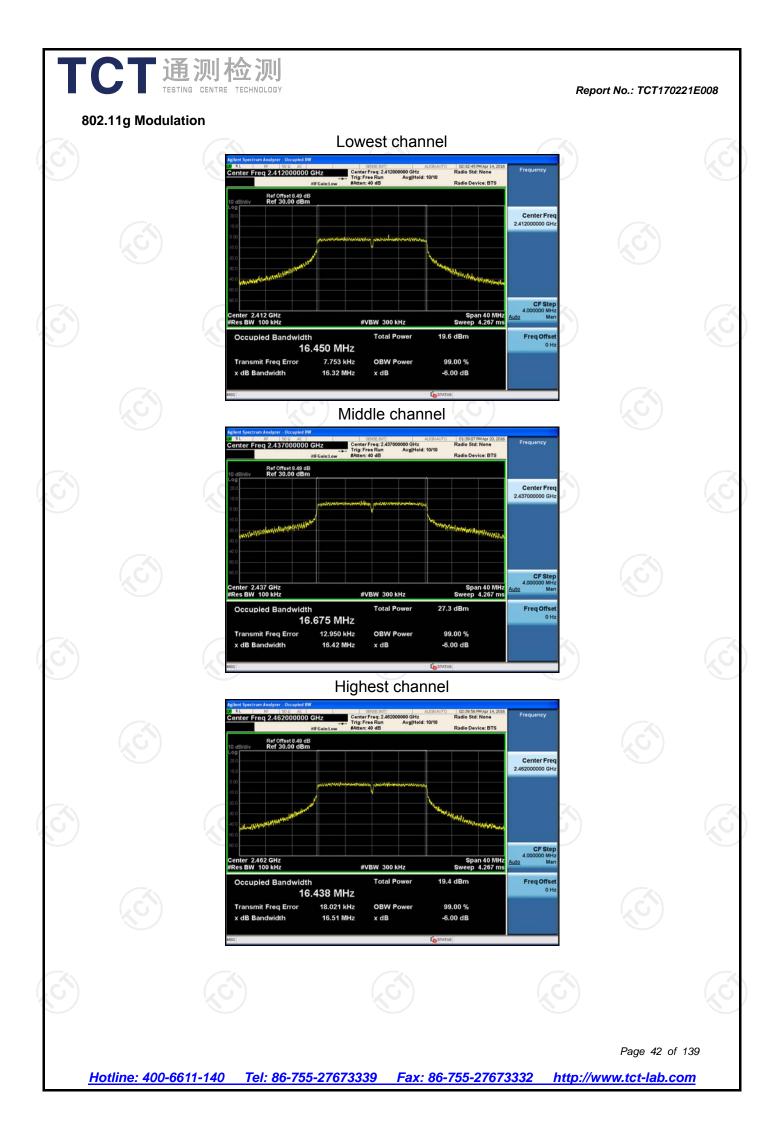


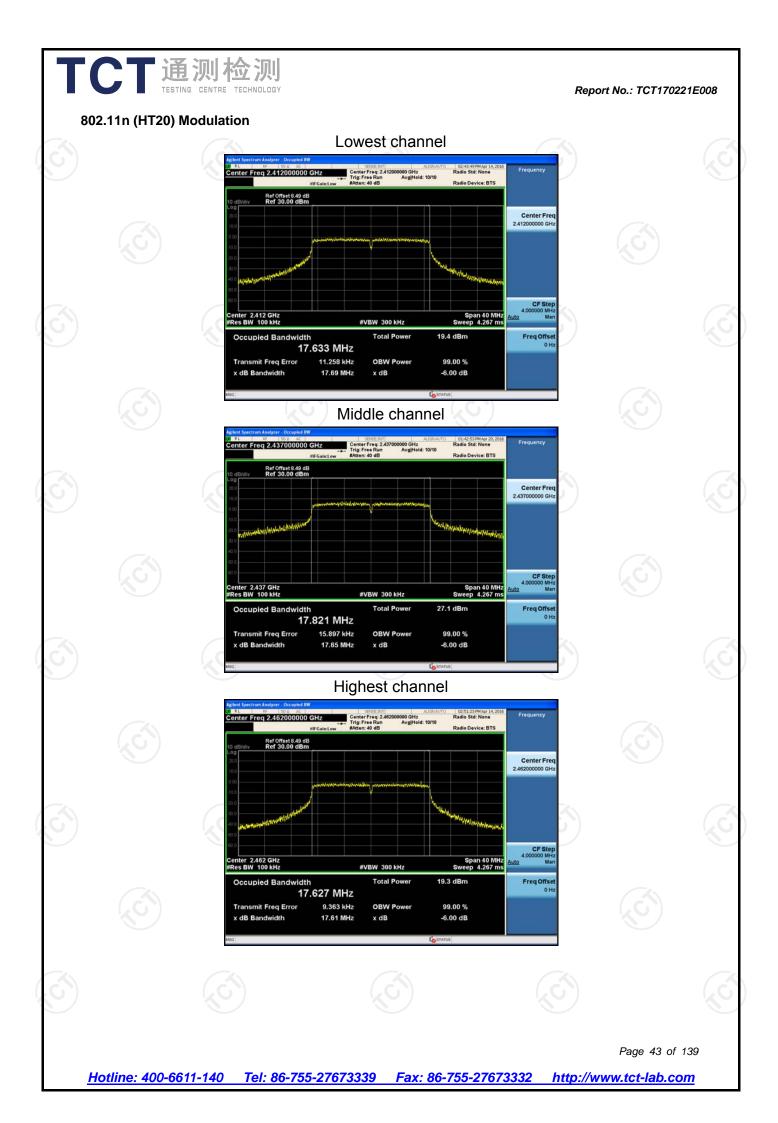


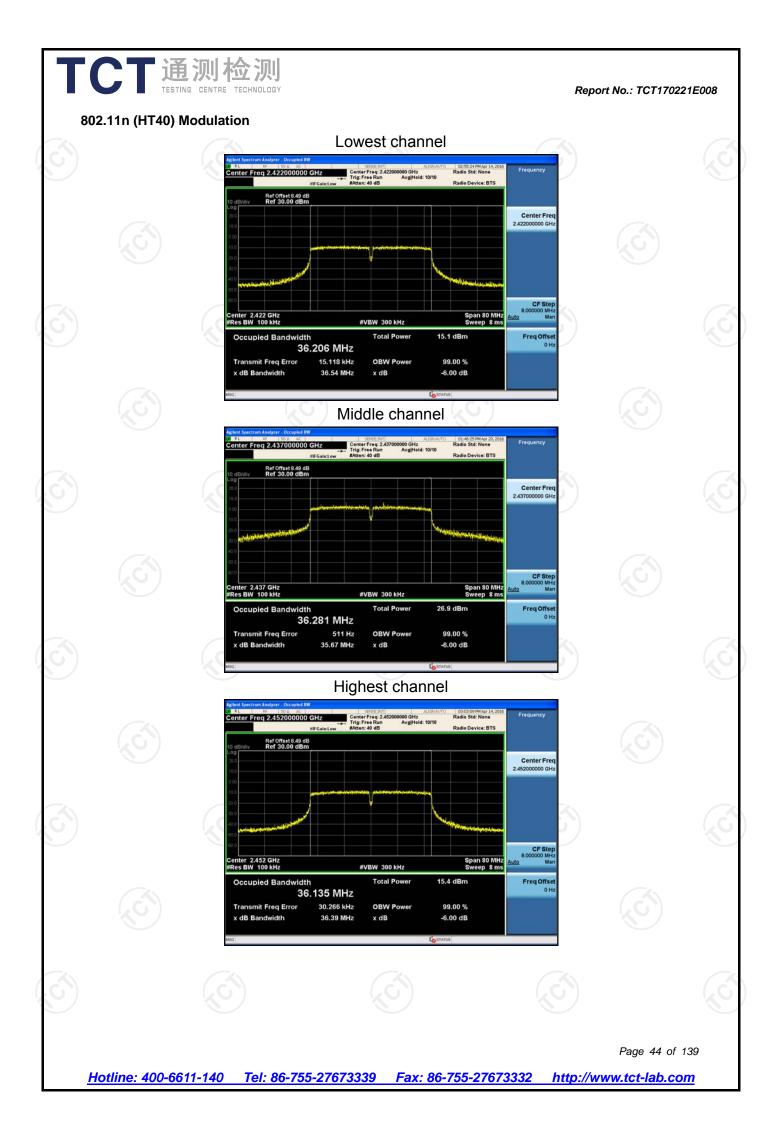












6.4. Power Spectral Density

6.5. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 15.247 (e)/RSS-247, 5.2(2)
Test Method:	KDB558074, KDB662911
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
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 v03r05 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

6.5.1. Test Instruments

	RF Test Room										
	Equipment	Manufacturer	Model Serial Numb		r Calibration Due						
	Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016						
	RF cable	тст	RE-06	N/A	Sep. 12, 2016						
)	Antenna Connector	тст	RFC-01	N/A	Sep. 12, 2016						

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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).

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6.5.2. Test data

Configuration IEEE 802.11b/ Antenna 0, Antenna 1, Antenna 2

Test channel	AVG	Power Sp (dBm/	pectral D (3kHz)	Limit (dBm)	Result	
	Ant0	Ant1	Ant2	Total		
Lowest	-7.79	-6.91	-7.44	-2.59	6.2dBm/3kHz	PASS
Middle	-3.77	-3.31	-4.37	0.98	6.2dBm/3kHz	PASS
Highest	-7.30	-6.13	-8.67	-2.47	6.2dBm/3kHz	PASS

Configuration IEEE 802.11g/ Antenna 0, Antenna 1, Antenna 2

Test channel	AVG		pectral De 3kHz)	Limit (dBm)	Result			
	Ant0	Ant1	Ant2	Total				
Lowest	-13.97	-13.11	-15.53	-9.32	6.2dBm/3kHz	PASS		
Middle	-9.18	-7.26	-8.08	-3.33	6.2dBm/3kHz	PASS		
Highest	-14.49	-12.85	-15.88	-9.46	6.2dBm/3kHz	PASS		
					V I			

Configuration IEEE 802.11n (HT20)/ Antenna 0, Antenna 1, Antenna 2

Test channel	AVG	Power Sp (dBm/	oectral Do 3kHz)	Limit (dBm)	Result			
	Ant0	Ant1	Ant2	Total	(a)			
Lowest	-14.68	-14.20	-16.55	-10.26	6.2dBm/3kHz	PASS		
Middle	-8.06	-8.89	-8.00	-3.53	6.2dBm/3kHz	PASS		
Highest	-14.83	-13.40	-13.10	-8.94	6.2dBm/3kHz	PASS		

Configuration IEEE 802.11n (HT40)/ Antenna 0, Antenna 1, Antenna 2

Test channel	AVG	Power Sp (dBm/	oectral Do 3kHz)	Limit (dBm)	Result	
	Ant0	Ant1	Ant2	Total		
Lowest	-25.13	-24.82	-24.22	-19.94	6.2dBm/3kHz	PASS
Middle	-14.19	-13.63	-13.47	-8.98	6.2dBm/3kHz	PASS
Highest	-24.18	-24.23	-24.83	-19.63	6.2dBm/3kHz	PASS

Note: G_{ANT} =3dBi, Array Gain=10log(N_{ANT}/N_{SS})=4.8dBi

Directional Gain=G_{ANT} + Array Gain=7.8dBi, So limit=8-(7.8-6)=6.2dBm/3kHz

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