

🥇 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE180903203

FCC REPORT

Applicant: Sun Cupid Technology (HK) Ltd.

Address of Applicant: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan,

Kowloon, Hong Kong.

Equipment Under Test (EUT)

Product Name: Smart phone

Model No.: N5001W, A3

Trade mark: NUU

FCC ID: 2ADINN5001W

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 10 Sep., 2018

Date of Test: 10 Sep., to 12 Oct., 2018

Date of report issued: 16 Oct., 2018

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	16 Oct., 2018	Original

Tested by: Mike 01. Date: 16 Oct., 2018

Test Engineer

Reviewed by: Date: 16 Oct., 2018

Project Engineer



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Test Summary

Test Items	Section in CFR 47	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 99% Occupied 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		
Pass: The EUT complies with the essential requirements in the standard.				

N/A: N/A: Not Applicable.





5 General Information

5.1 Client Information

Applicant:	Sun Cupid Technology (HK) Ltd.	
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.	
Manufacturer:	Sun Cupid Technology (HK) Ltd.	
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.	
Factory:	SUNCUPID (ShenZhen) Electronic Ltd	
Address:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7, China.	

5.2 General Description of E.U.T.

Product Name:	Smart phone
Model No.:	N5001W, A3
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel numbers:	11 for 802.11b/802.11g/802.11(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
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:	1.53dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2000mAh
AC adapter:	Model: HJ-0501000E1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1000mA
Remarks:	item No.: N5001W,A3 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and for different areas.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.



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Operation Fr	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				

Note:

- 1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
- Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel; 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

5.3 Test environment and test mode

Operating Environment:		
24.0 °C		
54 % RH		
1010 mbar		

Transmitting mode Keep the EUT in continuous transmitting with modulation

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, the follow list were the worst case.			
Mode Data rate			
802.11b	1Mbps		
802.11g	6Mbps		
802.11n(HT20)	6.5Mbps		
802.11n(HT40) 13.5Mbps			

5.4 Description of Support Units

The EUT has been tested as an independent unit.



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5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty	
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)	
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)	
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)	
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)	
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)	

5.6 Laboratory Facility

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

FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing 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 L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf



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5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2017	11-20-2018
EMI Test Software	AUDIX	E3	\	Version: 6.110919b	
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2017	11-20-2018
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part 15 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(b)(4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The WiFi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.53 dBi.







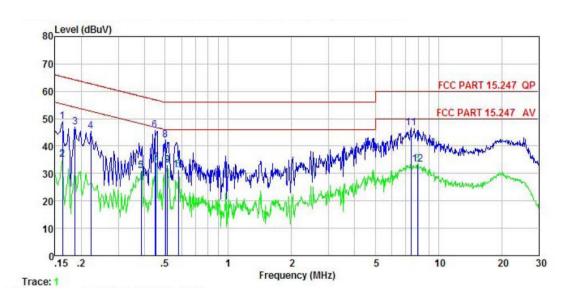
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 1	5.207		
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150 kHz to 30 MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9 kHz, VBW=30 kl			
•	Frequency range	Limit (dDu//)	
Limit:	(MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the loga	arithm of the frequency.		
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. 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). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 			
Test setup:	AUX Equipment Test table/Insula Remark: E.U.T. Equipment Under LISN: Line Impedence State Test table height=0.8m	E.U.T EMI Receiver	ilter — AC power	
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			



Measurement Data:

Product name:	Smart phone	Product model:	N5001W
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



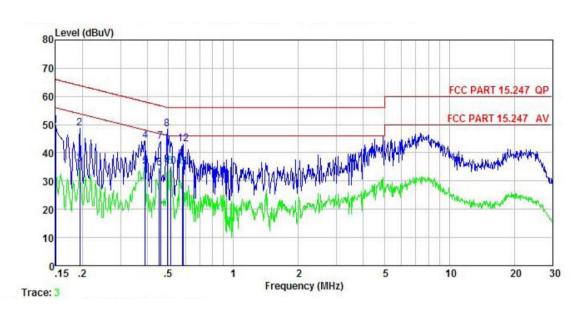
Remark	:							
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>		dBu₹	—dBu₹	<u>dB</u>	
1	0.162	38.04	0.17	10.77	48.98	65.34	-16.36	QP
1 2 3 4 5 6 7 8 9	0.162	24.28	0.17	10.77	35.22	55.34	-20.12	Average
3	0.186	36.00	0.16	10.76	46.92	64.20	-17.28	QP
4	0.222	34.55	0.14	10.76	45.45	62.74	-17.29	QP
5	0.385	20.07	0.12	10.72	30.91	48.17	-17.26	Average
6	0.447	34.88	0.12	10.74	45.74	56.93	-11.19	QP
7	0.454	23.21	0.12	10.74	34.07	46.80	-12.73	Average
8	0.502	31.27	0.12	10.76	42.15	56.00	-13.85	QP
9	0.513	22.24	0.12	10.76	33.12	46.00	-12.88	Average
10	0.582	20.48	0.12	10.76	31.36	46.00	-14.64	Average
11	7.407	35.43	0.26	10.82	46.51	60.00	-13.49	QP
12	7.935	22.29	0.27	10.85	33.41	50.00	-16.59	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product name:	Smart phone	Product model:	N5001W
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



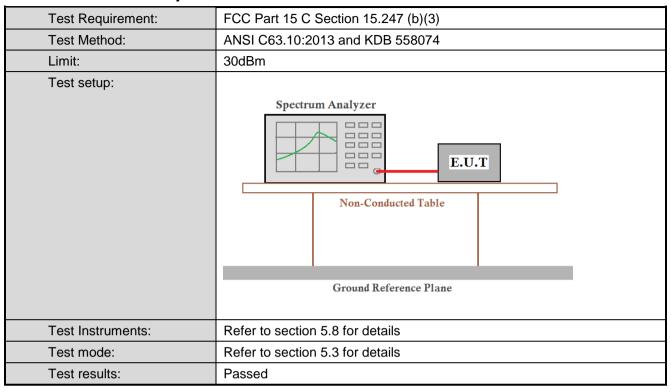
Remark	:	Read	LISN	Cable		Limit	Over	
	Freq		Factor	Loss	Level	Line		Remark
	MHz	dBu∜	dB	dB	dBu₹	dBu∜	<u>dB</u>	
1	0.150	37.87	0.99	10.78	49.64	66.00	-16.36	QP
2 3 4 5 6 7 8 9	0.194	36.90	0.93	10.76	48.59	63.84	-15.25	QP
3	0.194	24.21	0.93	10.76	35.90	53.84	-17.94	Average
4	0.389	32.67	0.97	10.72	44.36	58.08	-13.72	QP
5	0.389	23.49	0.97	10.72	35.18	48.08	-12.90	Average
6	0.454	22.85	0.97	10.74	34.56	46.80	-12.24	Average
7	0.459	32.21	0.97	10.74	43.92	56.71	-12.79	QP
8	0.494	36.66	0.97	10.76	48.39	56.10	-7.71	QP
9	0.494	23.88	0.97	10.76	35.61	46.10	-10.49	Average
10	0.513	23.46	0.97	10.76	35.19	46.00	-10.81	Average
11	0.582	23.28	0.97	10.76	35.01	46.00	-10.99	Average
12	0.585	31.50	0.97	10.76	43.23	56.00	-12.77	QP

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.3 Conducted Output Power

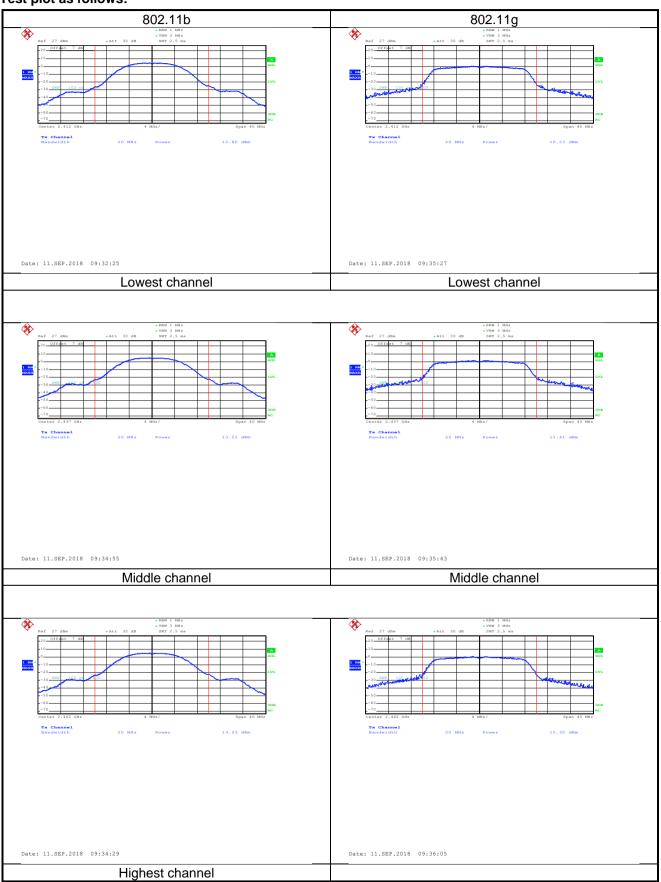


Measurement Data:

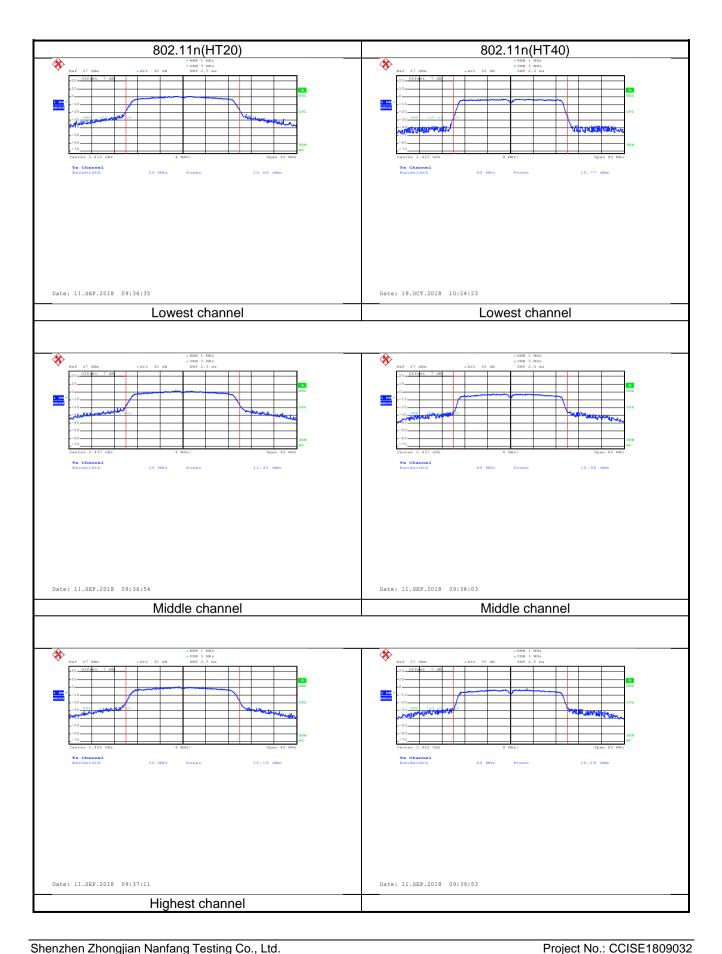
Toot CH	Ma	Limit(dDm)	Dogult			
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm)	Result
Lowest	12.80	10.23	10.66	10.77		
Middle	13.21	11.41	11.32	10.94	30.00	Pass
Highest	13.25	10.30	10.19	10.18		



Test plot as follows:









6.4 Occupy Bandwidth

	_			
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10:2013 and KDB 558074			
Limit:	>500kHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

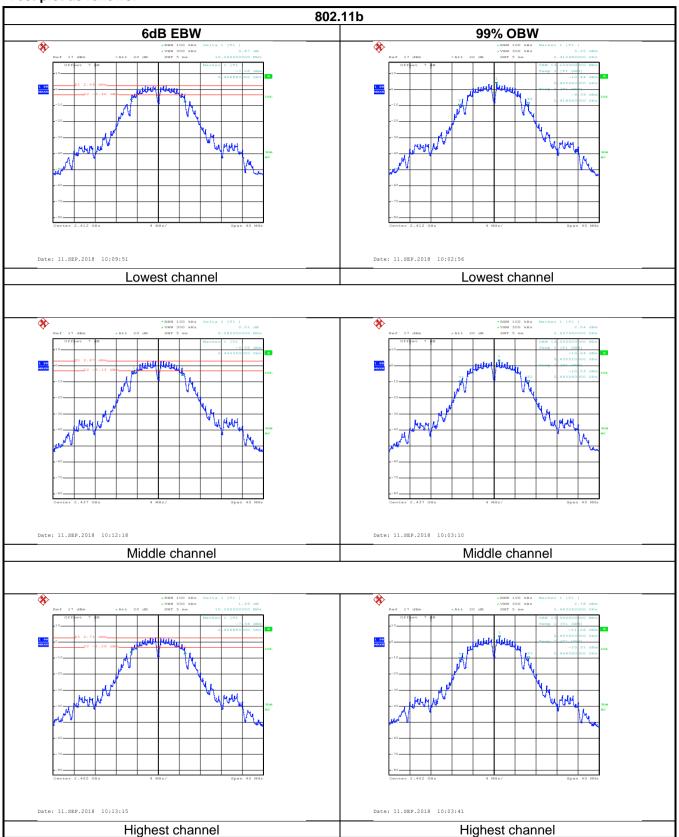
Measurement Data:

Test CH		6dB Emission B	Limit/IrLI¬\	Dogult		
Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(kHz)	Result
Lowest	10.24	15.28	15.28	35.52		
Middle	9.28	15.28	15.28	35.52	>500	Pass
Highest	10.24	15.84	15.28	35.52		
Test CH		99% Occupy Ba	andwidth (MHz)		Limit/kU=\	Result
Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(kHz)	Resuit
Lowest	13.12	16.48	17.60	36.00		
Middle	13.04	16.48	17.68	36.00	N/A	N/A
Highest	13.04	16.48	17.60	35.84		



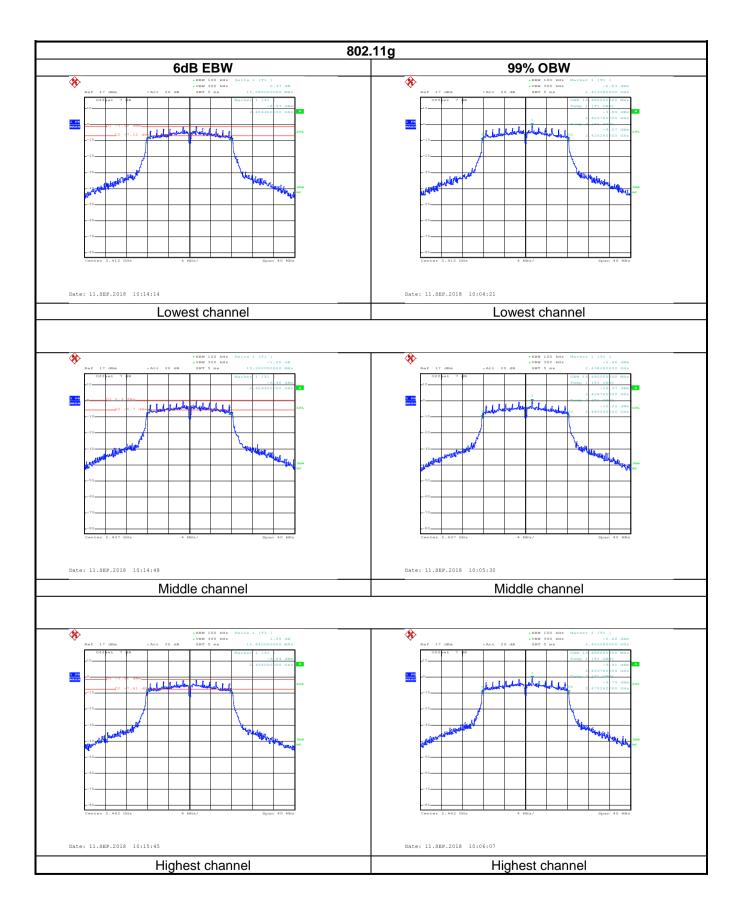


Test plot as follows:

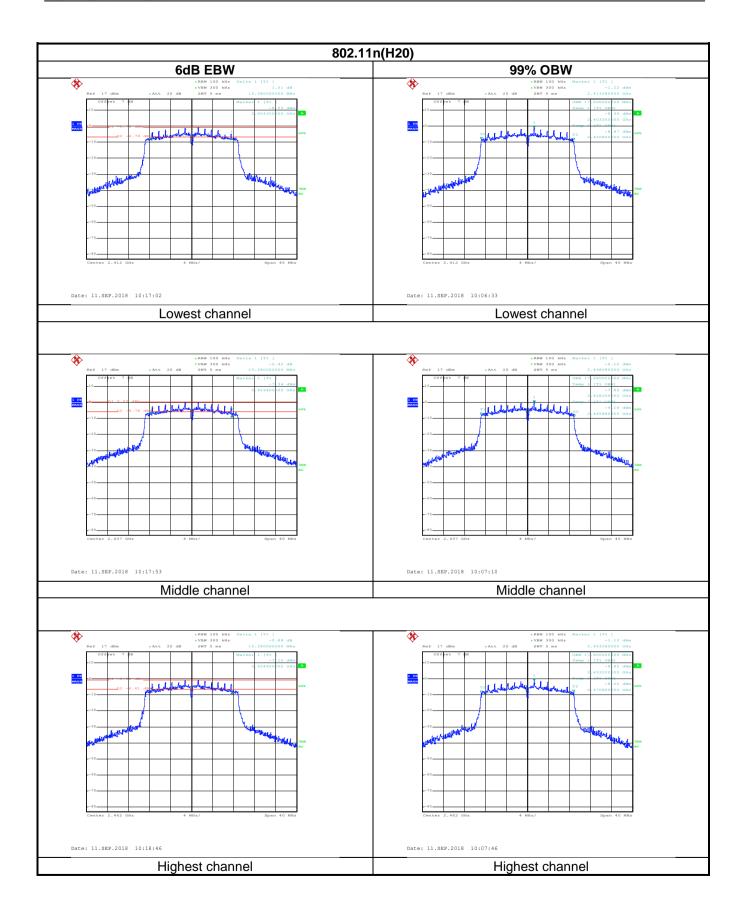




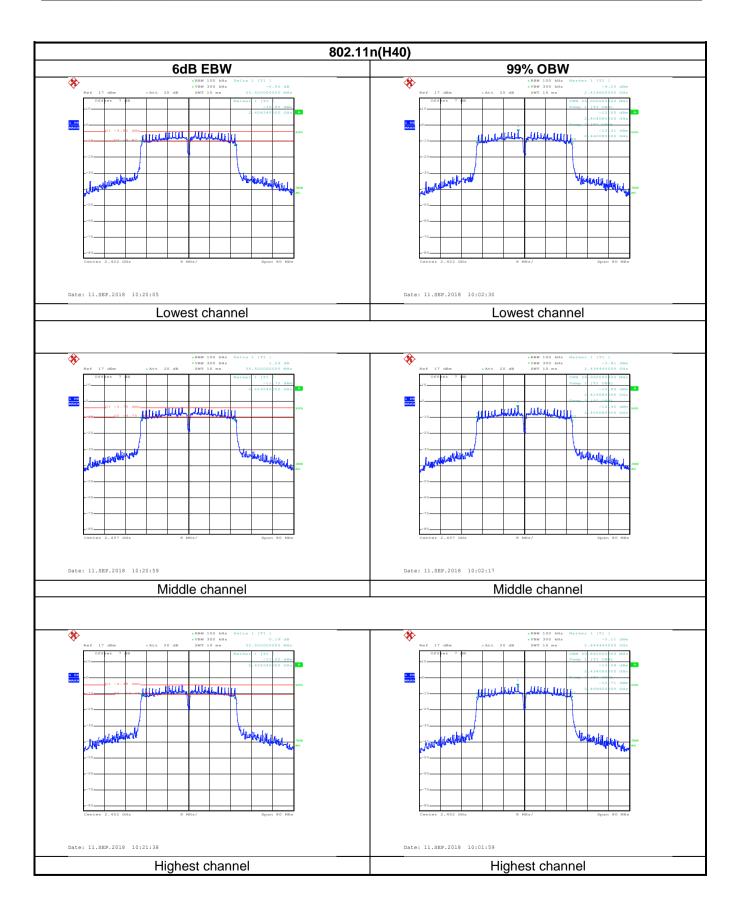














6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)			
Test Method:	ANSI C63.10:2013 and KDB 558074			
Limit:	8dBm			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

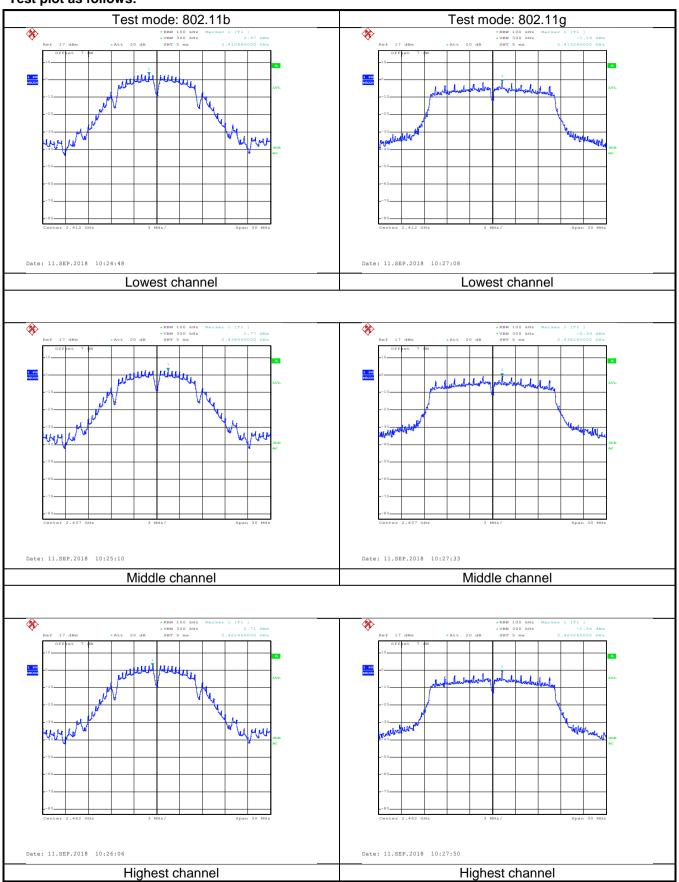
Measurement Data:

Test CH		Power Spectra	al Density (dBm)	Limit(dDm)	Dogult	
rest CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm)	Result
Lowest	2.97	-1.19	-1.11	-4.69		
Middle	2.77	-0.39	0.33	-3.80	8.00	Pass
Highest	2.71	-1.36	-1.03	-4.70		

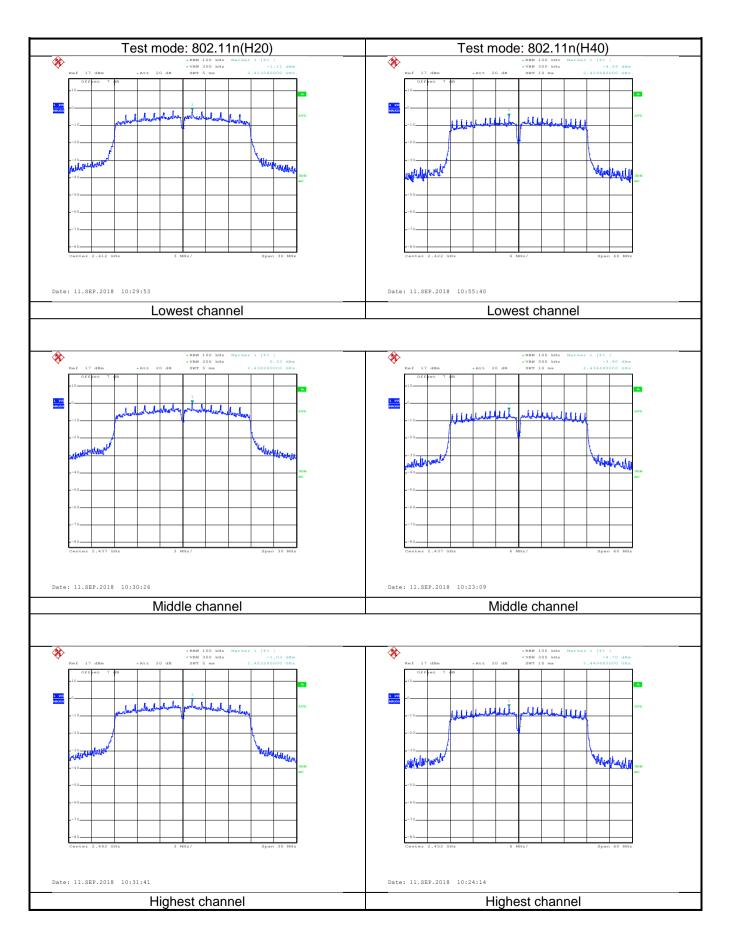




Test plot as follows:











6.6 Band Edge

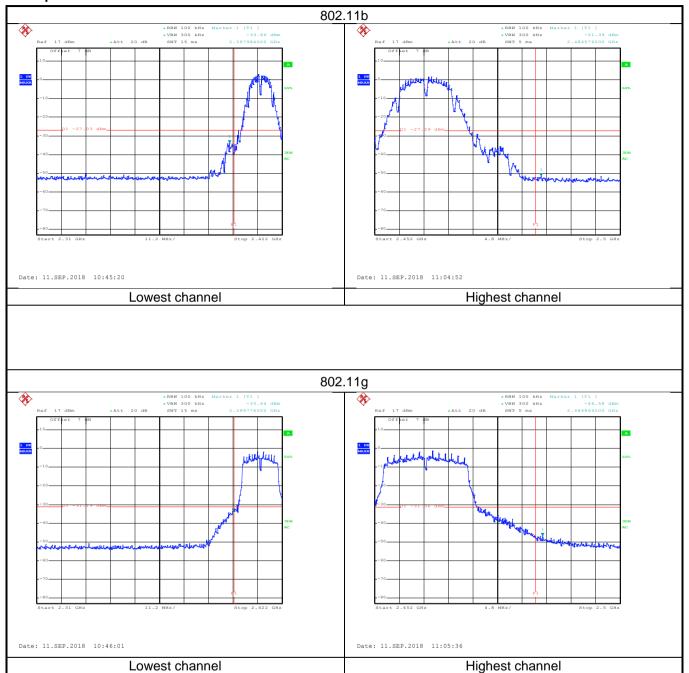
6.6.1 Conducted Emission Method

0.0.1 Conducted Linission	Metriou				
Test Requirement:	FCC Part 15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB 558074				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				



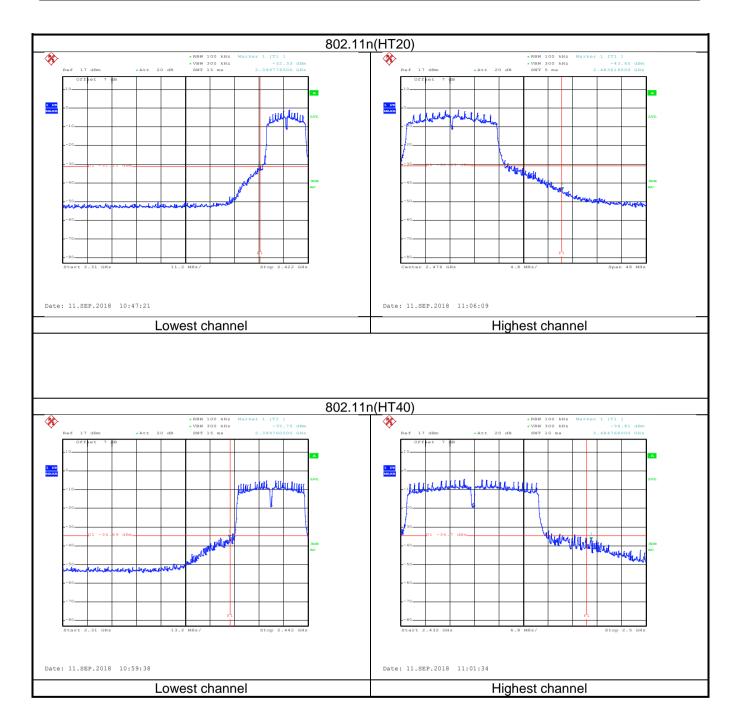


Test plot as follows:













6.6.2 Radiated Emission Method

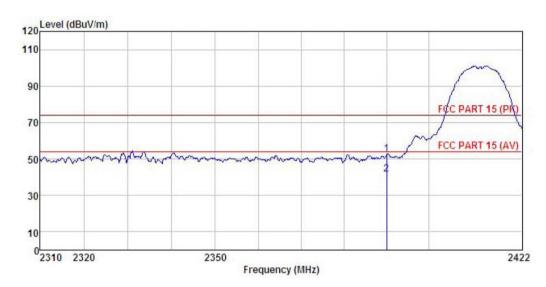
0.0.2	Radiated Emission Me	etnoa							
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
	Test Method:	ANSI C63.10: 2	ANSI C63.10: 2013 and KDB 558074						
	Test Frequency Range:	2.3GHz to 2.5G	2.3GHz to 2.5GHz						
	Test Distance:	3m							
	Receiver setup:	Frequency	Detecto		RBW		'BW	Remark	
		Above 1GHz	Peak RMS		1MHz 1MHz		MHz MHz	Peak Value Average Val	
	Limit:	Frequenc		Lin	nit (dBuV/m @		VII IZ	Remark	iue
	Little.	Above 1GI			54.00		A۱	/erage Value	
					74.00			Peak Value	
	Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 							
	Test setup:	150cm	AE EU1	1	3m Ground Reference Plane	n Antenna	Antenna Tov	ver V	
	Test Instruments:	Refer to section	5.8 for de	etails	S				
	Test mode:	Refer to section	5.3 for de	etails	S				
	Test results:	Passed							





802.11b mode:

Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



REMARI	к :	Read	Antenna	Cable	Dreamn		Limit	Over	
	Freq		Factor						Remark
	MHz	dBu₹	<u>dB</u> /m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000	20.54 9.44	27.37 27.37	4.69 4.69			74.00 54.00		Peak Average

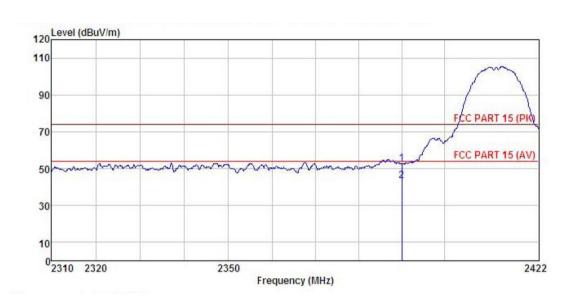
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



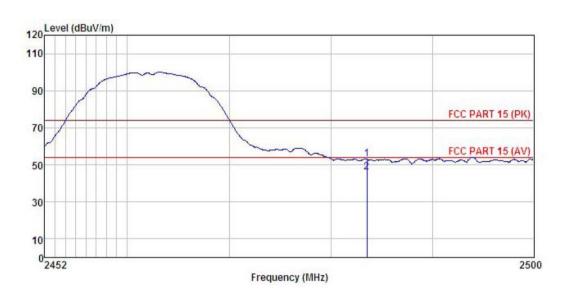
REMARI	:)	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu∜	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000	20.60 11.25		4.69 4.69	0.00 0.00		74.00 54.00		Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



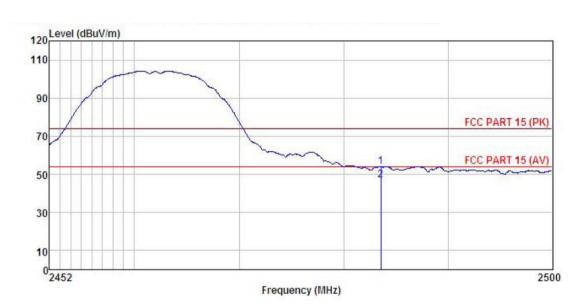
REMARK	:	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u> /m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500	20.60 13.51		4.81 4.81	0.00 0.00		74.00 54.00		Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W		
Test By:	Mike	Test mode:	802.11b Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



REMAR			Antenna Factor						Remark
	MHz	dBu∜	dB/m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500					54.03 46.86			

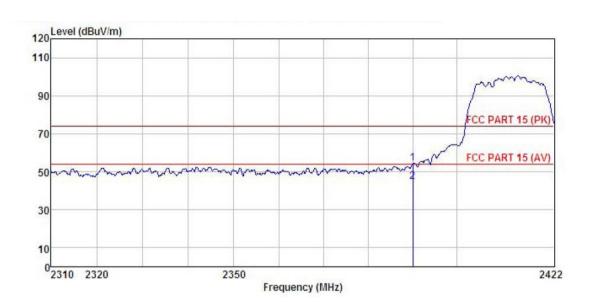
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

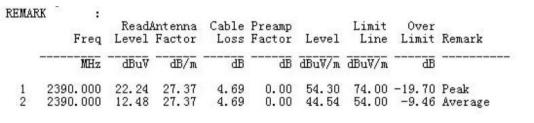




802.11g mode:

<u> </u>				
Product Name:	Smart phone	Product Model:	N5001W	
Test By:	Mike	Test mode: 802.11g Tx mode		
Test Channel:	Lowest channel	Polarization:	Vertical	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	





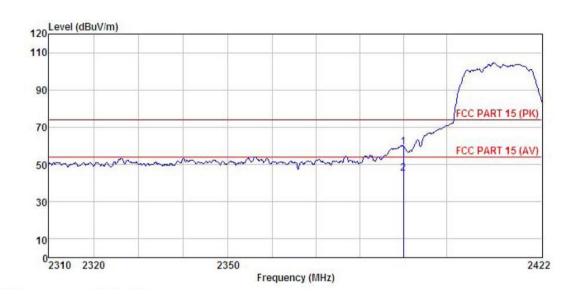
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



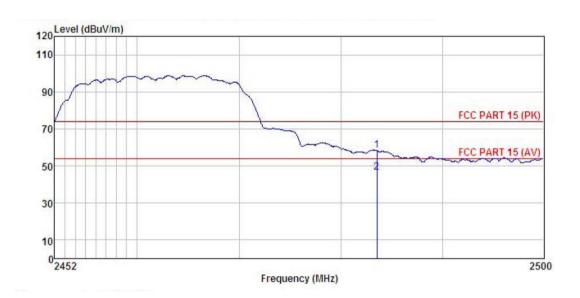
REMARI	к - :	D J	A., 4	C-11-	D		7:-:4	0	
	Freq		Antenna Factor					Over Limit	Remark
	MHz	dBu∀	$-\frac{dB}{m}$	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000			270	0.00 0.00			-14.54 -8.74	Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



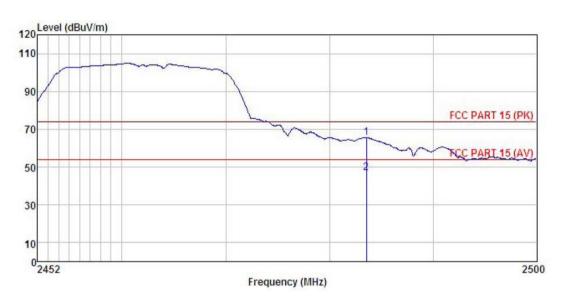
REMARK	:	Road	Ant enna	Cabla	Dreamn		Limit	Over	
	Freq		Factor						Remark
-	MHz	dBu∜	dB/m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	dB	
	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W		
Test By:	Mike	Test mode:	802.11g Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



REMARI	к :	Read	Antenna	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	dB/m	<u>dB</u>	<u>d</u> B	dBuV/m	$\overline{dBuV/m}$	<u>d</u> B	
1 2	2483.500 2483.500						74.00 54.00		

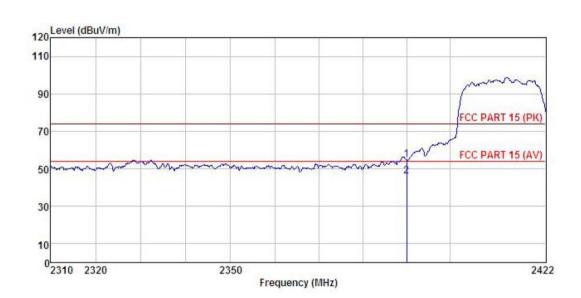
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

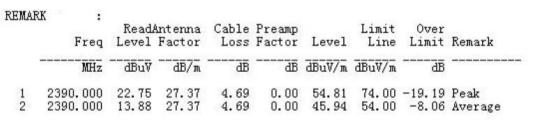




802.11n(HT20):

••=····(···=•)·						
Product Name:	Smart phone	Product Model:	N5001W			
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode			
Test Channel:	Lowest channel	Polarization:	Vertical			
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%			





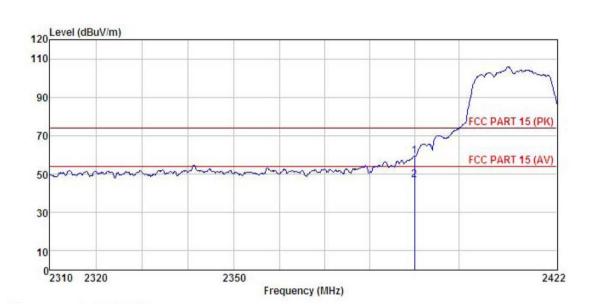
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



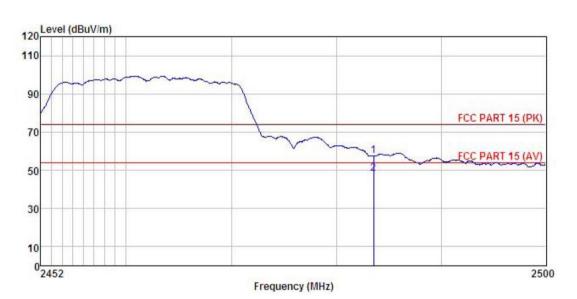
REMARK		Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
=	MHz	—dBuV	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	āB	
	2390.000 2390.000						74.00 54.00		Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



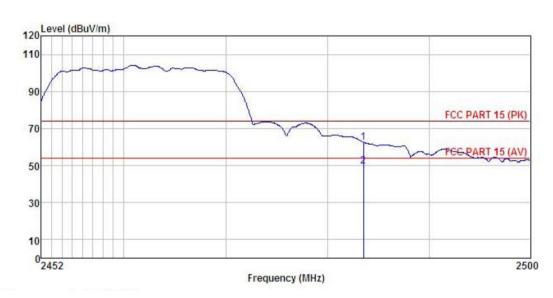
REMARK	:	Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq		Factor						Remark
-	MHz	dBu∜	dB/m	dB	<u>ab</u>	dBuV/m	dBuV/m	<u>dB</u>	
	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W		
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



REMARK	•	Read	Ant enna	Cable	Preamo		Limit	Over	
	Freq		Factor				Line	Limit	Remark
·-	MHz	dBu∜	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1.00	2483.500 2483.500		27.57 27.57	4.81 4.81	0.00 0.00			-11.43 -4.38	Peak Average

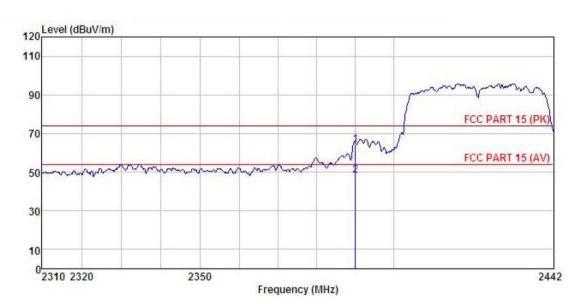
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





802.11n(HT40):

Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



REMARK	K :	Read	Ant enna	Cable	Preamo		Limit	Over	
	Freq						Line	Limit	Remark
-	MHz	dBu₹	$\overline{dB}/\overline{m}$	<u>dB</u>	<u>ab</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2390.000 2390.000			4.69 4.69			74.00 54.00		Peak Average

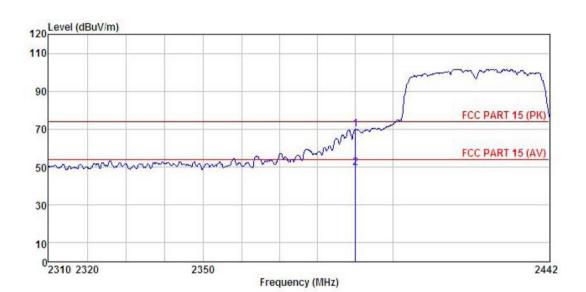
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



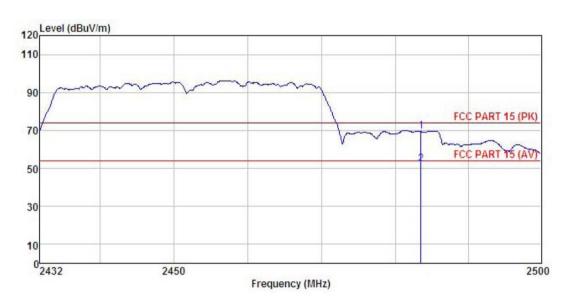
REMARK	:	Road	Antenna	Cabla	Dreamn		Limit	Over	
	Freq		Factor						Remark
	MHz	dBu∜	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2390.000 2390.000	The state of the s	27.37 27.37	4.69 4.69	Y CONTRACTOR OF THE PARTY OF TH		74.00 54.00		Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



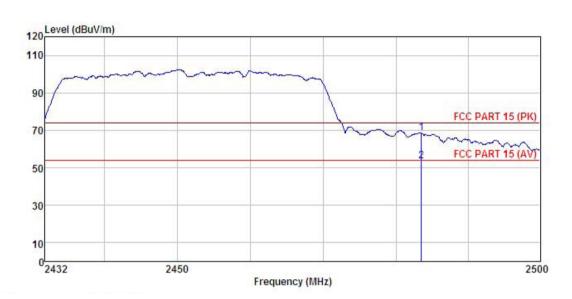
REMARK	:	Read	Antenna	Cable	Preamn		Limit	Over	
	Freq		Factor						Remark
7	MHz	dBu∜	dB/m	<u>dB</u>	<u>dB</u>	dBuV/m	dBu√/m	<u>dB</u>	
1 2	2483.500 2483.500			4.81 4.81			74.00 54.00		Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W		
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



REMARK	:	Pood	Antenna	Coblo	Drooms		Limit	Over	
	Freq		Factor						Remark
-	MHz	dBu∀	<u>dB</u> /m	<u>dB</u>	dB	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2483.500 2483.500		27.57 27.57	4.81 4.81					Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



6.7 Spurious Emission

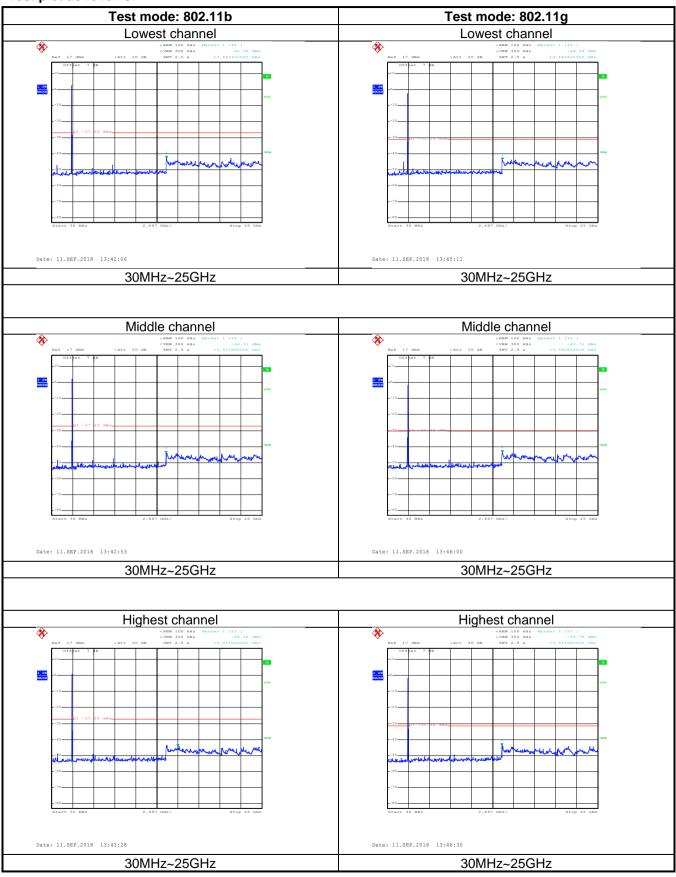
6.7.1 Conducted Emission Method

power that is produced by the intentional radiator shall be at le below that in the 100 kHz bandwidth within the band that cont highest level of the desired power, based on either an RF con radiated measurement. If the transmitter complies with the con power limits based on the use of RMS averaging over a time is permitted under paragraph(b)(3) of this section, the attenuation under this paragraph shall be 30 dB instead of 20 dB. Test setup:	frequency It least 20 dB Intains the Inducted or a Inducted Inducted Interval, as					
Limit: In any 100 kHz bandwidth outside the frequency band in whice spread spectrum intentional radiator is operating, the radio free power that is produced by the intentional radiator shall be at least level of the desired power, based on either an RF contradiated measurement. If the transmitter complies with the contradiated measurement. If the transmitter complies with the contradiated measurement on the use of RMS averaging over a time in permitted under paragraph(b)(3) of this section, the attenuation under this paragraph shall be 30 dB instead of 20 dB. Test setup:	frequency It least 20 dB Intains the Inducted or a Inducted Inducted Interval, as					
spread spectrum intentional radiator is operating, the radio free power that is produced by the intentional radiator shall be at least on the specific below that in the 100 kHz bandwidth within the band that conting highest level of the desired power, based on either an RF contradiated measurement. If the transmitter complies with the contradiated measurement. If the transmitter complies with the contradiated measurement are of RMS averaging over a time in permitted under paragraph(b)(3) of this section, the attenuation under this paragraph shall be 30 dB instead of 20 dB. Test setup:	frequency It least 20 dB Intains the Inducted or a Inducted Inducted Interval, as					
·	spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required					
Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments: Refer to section 5.8 for details						
Test mode: Refer to section 5.3 for details						
Test results: Passed						



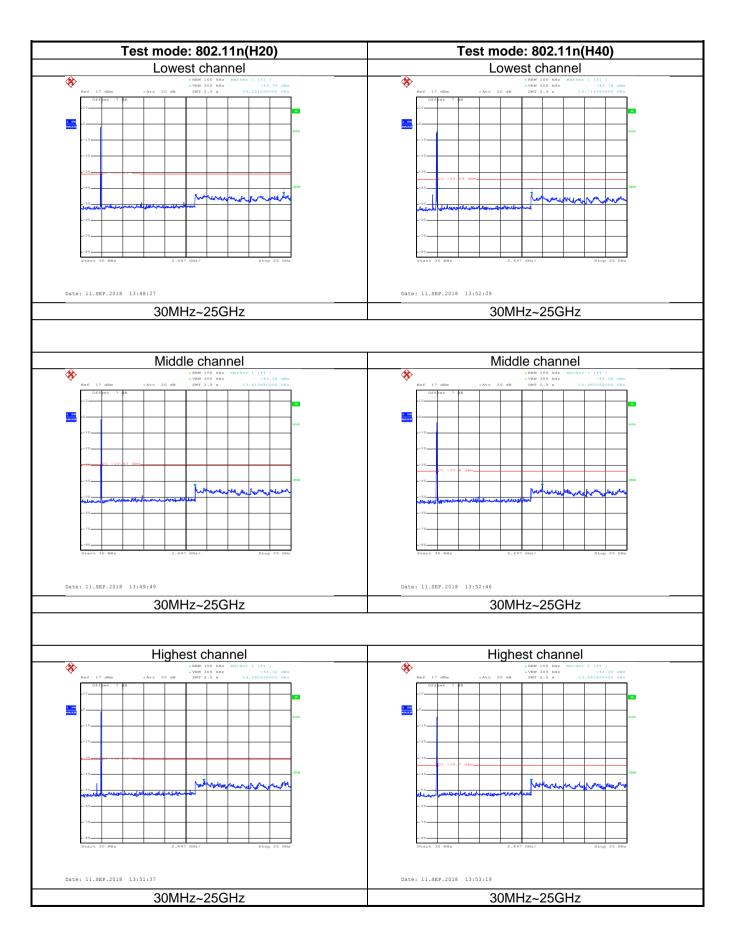


Test plot as follows:













6.7.2 Radiated Emission Method

6.7.2 Radiated I	Emission Me	Method							
Test Requirer	ment:	FCC Part 15 C S	ection 15.2	9 and 15.205					
Test Method:		ANSI C63.10:201	13						
Test Frequen	cy Range:	9kHz to 25GHz							
Test Distance	:	3m							
Receiver setu	ıp:	Frequency	Detector	ector RBW V		/BW Remark			
		30MHz-1GHz	Quasi-pea				Quasi-peak Value		
		Above 1GHz	Peak RMS	1MHz 1MHz		MHz MHz	Peak Value		
Limit:		Frequency		imit (dBuV/m @		VIDZ	Average Value Remark		
Littiit.		30MHz-88MH		40.0	OIII)	Q	uasi-peak Value		
		88MHz-216MH		43.5			uasi-peak Value		
		216MHz-960M	Hz	46.0			uasi-peak Value		
		960MHz-1GH	z	54.0		Q	uasi-peak Value		
		Above 1GHz		54.0		,	Average Value		
				74.0			Peak Value		
		 The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 							
Test setup:		Below 1GHz EUT Turn Table Ground P	nin,	lm					





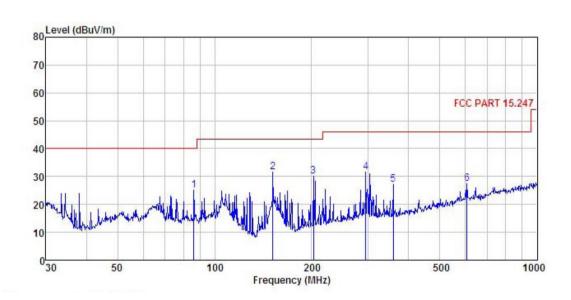
	Above 1GHz
	Horn Anianna Antenna Tower Ground Reference Plane Test Receiver Amptifier Controller
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.



Measurement Data (worst case):

Below 1GHz:

Product Name:	Smart phone	Product Model:	N5001W		
Test By:	Mike	Test mode:	Wi-Fi Tx mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



REMARK	: Freq		Antenna Factor		Preamp Factor		Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u> /m	₫B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	86.200	43.51	9.30	1.91	29.59	25.13	40.00	-14.87	QP
2	151.597	49.60	8.68	2.53	29.21	31.60	43.50	-11.90	QP
3	202.810	44.47	11.61	2.87	28.81	30.14	43.50	-13.36	QP
4	294.114	43.63	13.57	2.92	28.46	31.66	46.00	-14.34	QP
5	357.929	37.97	14.75	3.10	28.59	27.23		-18.77	
1 2 3 4 5 6	605.659	33.15	19.27	3.93	28.92	27.43	46.00	-18.57	QP

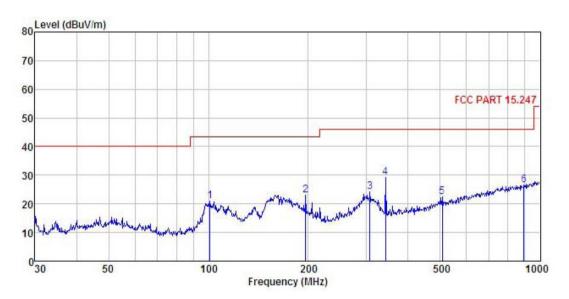
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Smart phone	Product Model:	N5001W		
Test By:	Mike	Test mode:	Wi-Fi Tx mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



EMARK	:	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu∜			dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	100.934	36.67	11.76	1.95	29.52	20.86	43.50	-22.64	QP
2	196.510	37.69	11.40	2.84	28.85	23.08	43.50	-20.42	QP
3	306.754	35.95	13.74	2.96	28.47	24.18	46.00	-21.82	QP
4	341.979	40.19	14.45	3.07	28.54	29.17	46.00	-16.83	QP
5	506.479	30.25	17.57	3.65	28.97	22.50	46.00	-23.50	QP
1 2 3 4 5	893.857	28.46	22.18	3.77	27.89	26.52	46.00	-19.48	QP

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Above 1GHz

ADOVE 1GHZ				802.11b						
			Toot ob							
				annel: Lowe						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	tector: Peak Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4824.00	49.58	30.94	6.81	41.82	45.51	74.00	-28.49	Vertical		
4824.00	50.39	30.94	6.81	41.82	46.32	74.00	-27.68	Horizontal		
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4824.00	39.65	30.94	6.81	41.82	35.58	54.00	-18.42	Vertical		
4824.00	41.93	30.94	6.81	41.82	37.86	54.00	-16.14	Horizontal		
				annel: Midd						
		T T		tector: Peak	Value		T			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4874.00	49.39	31.20	6.85	41.84	45.60	74.00	-28.40	Vertical		
4874.00	49.34	31.20	6.85	41.84	45.55	74.00	-28.45	Horizontal		
			Dete	ctor: Averaç	je Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4874.00	40.72	31.20	6.85	41.84	36.93	54.00	-17.07	Vertical		
4874.00	39.67	31.20	6.85	41.84	35.88	54.00	-18.12	Horizontal		
			Toot ob	onnoli High	not obonnol					
				annel: Highe tector: Peak						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4924.00	48.53	31.46	6.89	41.86	45.02	74.00	-28.98	Vertical		
4924.00	48.32	31.46	6.89	41.86	44.81	74.00	-29.19	Horizontal		
				ctor: Averag	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4924.00	39.14	31.46	6.89	41.86	35.63	54.00	-18.37	Vertical		
4924.00 Remark:	39.37	31.46	6.89	41.86	35.86	54.00	-18.14	Horizontal		

Remark:

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





				802.11g				
			Test ch	annel: Lowe				
				tector: Peak				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	49.58	30.94	6.81	41.82	45.51	74.00	-28.49	Vertical
4824.00	50.39	30.94	6.81	41.82	46.32	74.00	-27.68	Horizontal
			Dete	ctor: Averaç	ge Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	39.65	30.94	6.81	41.82	35.58	54.00	-18.42	Vertical
4824.00	41.93	30.94	6.81	41.82	37.86	54.00	-16.14	Horizontal
- 								
			T	NA' 1-1				
				annel: Mido				
				tector: Peak	value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	49.36	31.20	6.85	41.84	45.57	74.00	-28.43	Vertical
4874.00	49.26	31.20	6.85	41.84	45.47	74.00	-28.53	Horizontal
			Dete	ctor: Averaç	ge Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	40.73	31.20	6.85	41.84	36.94	54.00	-17.06	Vertical
4874.00	39.43	31.20	6.85	41.84	35.64	54.00	-18.36	Horizontal
			T (. l.		(.]]			
				annel: Highe				
Ī	Dood	Antonno		tector: Peak	value		<u> </u>	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	48.56	31.46	6.89	41.86	45.05	74.00	-28.95	Vertical
4924.00	48.47	31.46	6.89	41.86	44.96	74.00	-29.04	Horizontal
			Dete	ctor: Averaç	ge Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	39.16	31.46	6.89	41.86	35.65	54.00	-18.35	Vertical
4924.00	39.26	31.46	6.89	41.86	35.75	54.00	-18.25	Horizontal
Remark:								

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





				802.11n(HT	20)					
				annel: Lowe						
			De	tector: Peak	Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4824.00	49.53	36.06	6.81	41.82	50.58	74.00	-23.42	Vertical		
4824.00	50.06	36.06	6.81	41.82	51.11	74.00	-22.89	Horizontal		
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4824.00	39.35	36.06	6.81	41.82	40.40	54.00	-13.60	Vertical		
4824.00	40.12	36.06	6.81	41.82	41.17	54.00	-12.83	Horizontal		
			Test ch	annel: Mido	lle channel					
			De	tector: Peak	Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4874.00	49.83	36.32	6.85	41.84	51.16	74.00	-22.84	Vertical		
4874.00	49.32	36.32	6.85	41.84	50.65	74.00	-23.35	Horizontal		
			Dete	ctor: Averag	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4874.00	37.85	36.32	6.85	41.84	39.18	54.00	-14.82	Vertical		
4874.00	39.46	36.32	6.85	41.84	40.79	54.00	-13.21	Horizontal		
			Test ch	annel: Highe	est channel					
			De	tector: Peak	Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4924.00	48.57	36.58	6.89	41.86	50.18	74.00	-23.82	Vertical		
4924.00	48.52	36.58	6.89	41.86	50.13	74.00	-23.87	Horizontal		
			Dete	ctor: Averaç	e Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4924.00	37.24	36.58	6.89	41.86	38.85	54.00	-15.15	Vertical		
4924.00	38.26	36.58	6.89	41.86	39.87	54.00	-14.13	Horizontal		
Remark [.]		L.								

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





				802.11n(HT	40)			
				annel: Lowe				
				tector: Peak				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	49.53	36.06	6.81	41.82	50.58	74.00	-23.42	Vertical
4844.00	50.11	36.06	6.81	41.82	51.16	74.00	-22.84	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	39.34	36.06	6.81	41.82	40.39	54.00	-13.61	Vertical
4844.00	40.09	36.06	6.81	41.82	41.14	54.00	-12.86	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	49.81	36.32	6.85	41.84	51.14	74.00	-22.86	Vertical
4874.00	49.37	36.32	6.85	41.84	50.70	74.00	-23.30	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	37.89	36.32	6.85	41.84	39.22	54.00	-14.78	Vertical
4874.00	39.42	36.32	6.85	41.84	40.75	54.00	-13.25	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	48.64	36.45	6.87	41.85	50.11	74.00	-23.89	Vertical
4904.00	48.53	36.45	6.87	41.85	50.00	74.00	-24.00	Horizontal
			Dete	ctor: Averaç	ge Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	38.46	36.45	6.87	41.85	39.93	54.00	-14.07	Vertical
4904.00	38.51	36.45	6.87	41.85	39.98	54.00	-14.02	Horizontal
Remark [,]								

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.