

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102659

FCC REPORT

Applicant: Yulong Computer Telecommunication Scientific (Shenzhen) Co.

Ltd

Address of Applicant: Floor 21, Block A, Coolpad Building North High-Tech Industrial

Park, Nanshan District

Equipment Under Test (EUT)

Product Name: 4G Smart Phone

Model No.: C202

Trade mark: Coolpad

FCC ID: R38YLCPC202

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

Date of sample receipt: 24 Nov., 2021

Date of Test: 25 Nov., 2021 to 12 Jan., 2022

Date of report issued: 10 Feb., 2022

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 JYT 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	13 Jan., 2022	Original
01	10 Feb., 2022	Update page 5

Tested by: Mike DU Date: 10 Feb., 2022

Test Engineer

Reviewed by: Date: 10 Feb., 2022

Project Engineer

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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass
Conducted Band Edge	15.247 (d)	Appendix A – 2.4G Wi-Fi	Pass
Radiated Band Edge	15.205 & 15.209	See Section 6.6.2	Pass
Conducted Spurious Emission	15.247 (d)	Appendix A – 2.4G Wi-Fi	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

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General Information

5.1 Client Information

Applicant:	Yulong Computer Telecommunication Scientific (Shenzhen) Co. Ltd
Address:	Floor 21, Block A, Coolpad Building North High-Tech Industrial Park, Nanshan District
Manufacturer/Factory:	Mobiwire Mobiles(NongBo) Co., Ltd.
Address:	No.999 DaCheng East Road, Fenghua Zhejiang, China

5.2 General Description of E.U.T.

Product Name:	4G Smart Phone		
Model No.:	C202		
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)		
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)		
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 72.2Mbps		
Antenna Type:	Internal Antenna		
Antenna gain:	-5dBi		
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2950mAh		
AC adapter:	Model: A18A-050100U-US2		
	Input: AC100-240V, 50/60Hz, 0.2A		
	Output: DC 5.0V, 1A		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		
Remark:	There are two kinds of EUTs, single SIM card slot EUT and dual SIM card slot EUT. The EUT is the same except for the card slot. Choose to test the dual SIM card slot EUT.		

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	3 2422MHz 6 2437MHz 9 2452MHz							
Note:								
1. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel.								

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5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

Radiated Emission: 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				

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB
Radiated Emission (30MHz ~ 1GHz) for 10m SAC	4.32 dB

5.6 Additions to, deviations, or exclusions from the method

No

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5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

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

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen 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 L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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5.9 Test Instruments list

Radiated Emission(Above 1GHz):							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024		
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-044	03-07-2021	03-06-2022		
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022		
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022		
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022		
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022		
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022		
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022		
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022		
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022		
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022		
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022		
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022		
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022		
EMI Test Software	Tonscend	TS+		Version:3.0.0.1			

Radiated Emission(Below 1GHz):						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
10m SAC	ETS	RFSD-100-F/A	Q2005	04-28-2021	04-27-2024	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	04-02-2021	04-01-2022	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	04-02-2021	04-01-2022	
EMI Test Receiver	R&S	ESR 3	102800	04-08-2021	04-07-2022	
EMI Test Receiver	R&S	ESR 3	102802	04-08-2021	04-07-2022	
Low Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-05-2022	
Low Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-05-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-1	04-02-2021	04-01-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-2	04-02-2021	04-01-2022	
Test Software	R&S	EMC32		Version: 10.50.4	0	

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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 3	101189	03-03-2021	03-02-2022	
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	03-18-2021	03-17-2022	
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022	
ISN	Schwarzbeck	CAT3 8158	#96	03-03-2021	03-02-2022	
ISN	Schwarzbeck	CAT5 8158	#166	03-03-2021	03-02-2022	
ISN	Schwarzbeck	NTFM 8158	#126	03-03-2021	03-02-2022	
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	Version: 6.110919b			

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022
Test Software	MWRF-tes	MTS 8310	,	Version: 2.0.0.0	



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

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:

(4) 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 Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is -5dBi.

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6.2 Conducted Emission

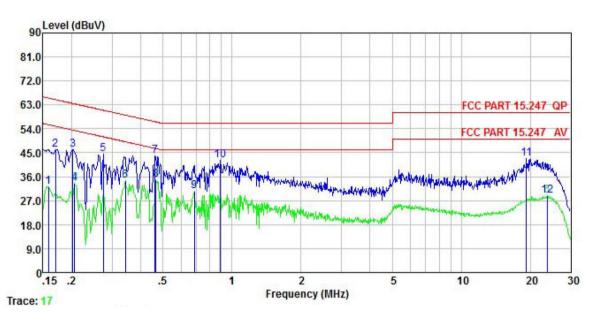
Test Requirement:	FCC Part 15 C Section 15.2	207					
Test Frequency Range:	150 kHz to 30 MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9 kHz, VBW=30 kHz						
Limit:	Fraguenov rango (MHz)	Limit (d	dBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarit	hm of the frequency.					
Test procedure	line impedance stabiliz 50ohm/50uH coupling 2. The peripheral devices LISN that provides a 50 termination. (Please re photographs). 3. Both sides of A.C. line interference. In order to positions of equipment	LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).					
Test setup:	LISN	st	er — AC power				
Test Instruments:	Refer to section 5.9 for deta	ails					
Test mode:	Refer to section 5.3 for deta	ails					
Test results:	Passed						

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Measurement Data:

Product name:	4G Smart Phone	Product model:	C202
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℃ Huni: 55%



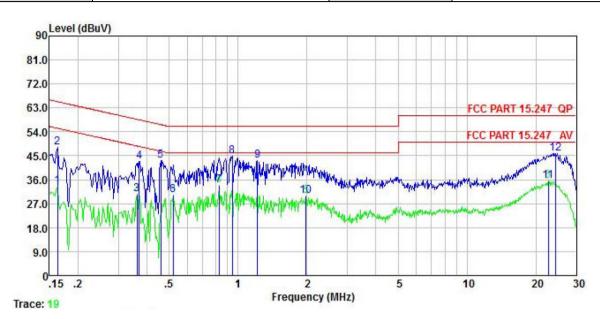
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u>	dB	dBu₹	dBu∇	<u>dB</u>	
1	0.158	32.32	0.04	0.01	32.37	55.56	-23.19	Average
2	0.170	46.27	0.04	0.01	46.32	64.94	-18.62	QP
3	0.202	46.22	0.04	0.04	46.30	63.54	-17.24	QP
4 5	0.206	33.30	0.04	0.04	33.38	53.36	-19.98	Average
5	0.274	44.56	0.04	0.02	44.62	60.98	-16.36	QP
6	0.343	34.60	0.04	0.02	34.66	49.13	-14.47	Average
7	0.461	43.73	0.04	0.03	43.80	56.67	-12.87	QP
8	0.466	34.68	0.04	0.03	34.75	46.58	-11.83	Average
9	0.686	30.33	0.04	0.03	30.40	46.00	-15.60	Average
10	0.890	41.94	0.05	0.04	42.03	56.00	-13.97	QP
11	19.224	42.29	0.31	0.15	42.75	60.00	-17.25	QP
12	23.636	28.38	0.35	0.17	28.90	50.00	-21.10	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:	4G Smart Phone	Product model:	C202
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℃ Huni: 55%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>		dBu∀	dBu∜	<u>dB</u>	
1 2 3 4 5	0.162	33.33	0.05	0.01	33.39			Average
2	0.162	48.19	0.05	0.01	48.25	65.34	-17.09	QP
3	0.361	30.47	0.04	0.02	30.53	48.69	-18.16	Average
4	0.369	42.77	0.04	0.03	42.84	58.52	-15.68	QP
5	0.459	43.21	0.04	0.03	43.28		-13.43	
6	0.521	30.19	0.04	0.03	30.26			Average
7	0.826	33.93	0.04	0.03	34.00			Average
8	0.943	44.59	0.05	0.04	44.68		-11.32	
8 9	1.216	43.05	0.05	0.10	43.20		-12.80	4 DO 7 76 CO.
10	1.980	29.58	0.06	0.21	29.85			Average
11	22.655	34.98	0.33	0.16	35.47			Average
12	24.400	45.39	0.35	0.18	45.92		-14.08	

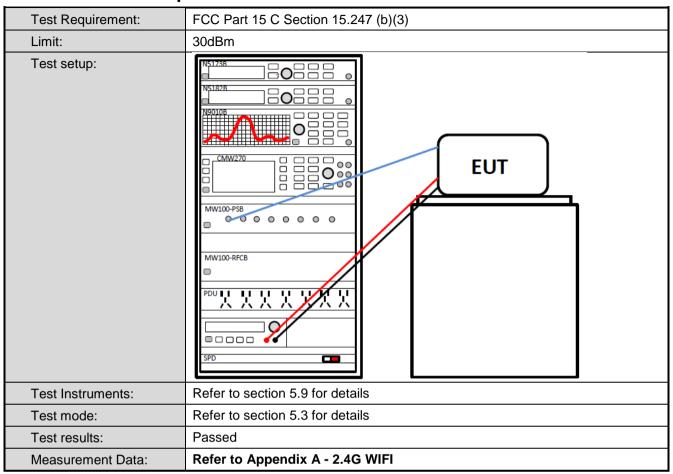
Notes:

- 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.

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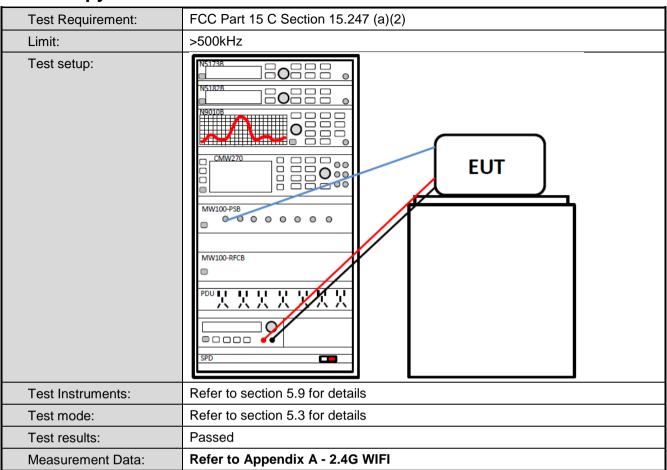


6.3 Conducted Output Power



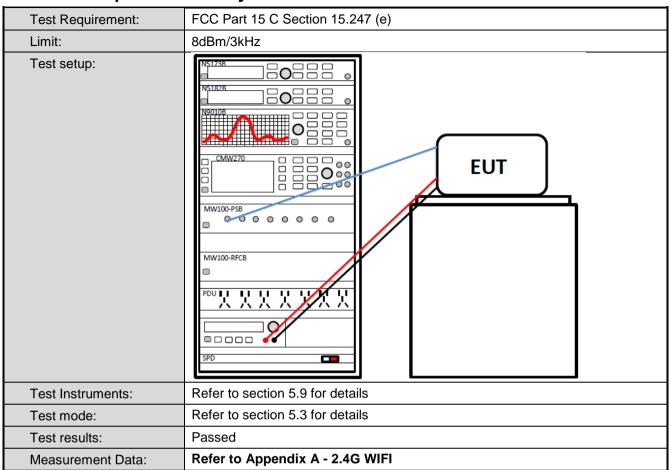


6.4 Occupy Bandwidth





6.5 Power Spectral Density





6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)				
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 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 under this paragraph shall be 30 dB instead of 20 dB.				
Test setup:	NS173B				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				
Measurement Data:	Refer to Appendix A - 2.4G WIFI				



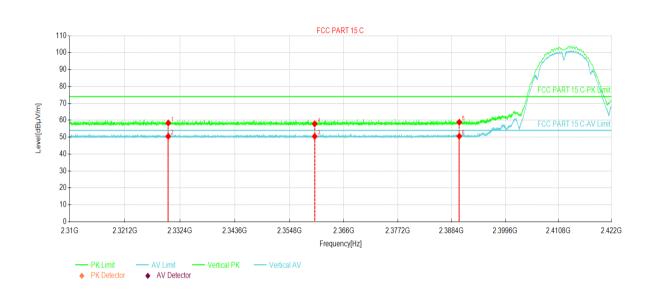
6.6.2 Radiated Emission Method

determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.	Took Description		otion 15 200	and 15 205							
Test Distance: Receiver setup: Frequency Detector RBW VBW Remark	•										
Receiver setup: Frequency											
Above 1GHz RMS 1MHz 3MHz Average Value RMS 1MHz 1 3MHz Average Value Frequency Limit (dBuV/m@3m) Remark Above 1GHz 74.00 Average Value 74.00 Peak Value 74.00 Peak Value 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-high tantenna tower. 3. 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. 4. 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 36 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test setup: Refer to section 5.9 for details Refer to section 5.3 for details	Test Distance:										
Limit: Frequency Limit (dBuV/m @3m) Remark Above 1GHz 54.00 Average Value 54.00 Average Value 54.00 Average Value Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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 stoth the measurement. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test setup: Refer to section 5.9 for details Refer to section 5.3 for details	Receiver setup:	Frequency									
Limit: Frequency		Above 1GHz									
Above 1GHz Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test Instruments: Refer to section 5.9 for details Refer to section 5.3 for details	Limit:	Frequency				11 12					
Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test Instruments: Refer to section 5.9 for details Refer to section 5.3 for details				,	,	A۱	verage Value				
the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned 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. 5. 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, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Refer to section 5.9 for details Refer to section 5.3 for details											
Test Instruments: Refer to section 5.9 for details Test mode: Refer to section 5.3 for details		 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, quasi-peak or 									
Test mode: Refer to section 5.3 for details	Test setup:	150km	(Turntable)	Ground Raference Plane							
	Test Instruments:	Refer to section 5	.9 for details			-					
Test results: Passed	Test mode:	Refer to section 5	.3 for details								
	Test results:	Passed									



802.11b mode:

Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.96	58.37	35.41	74.00	15.63	PK	Vertical
2	2330.00	15.07	50.48	35.41	54.00	3.52	AV	Vertical
3	2360.00	14.85	50.48	35.63	54.00	3.52	AV	Vertical
4	2360.00	22.23	57.86	35.63	74.00	16.14	PK	Vertical
5	2390.00	23.01	58.85	35.84	74.00	15.15	PK	Vertical
6	2390.00	14.76	50.60	35.84	54.00	3.40	AV	Vertical

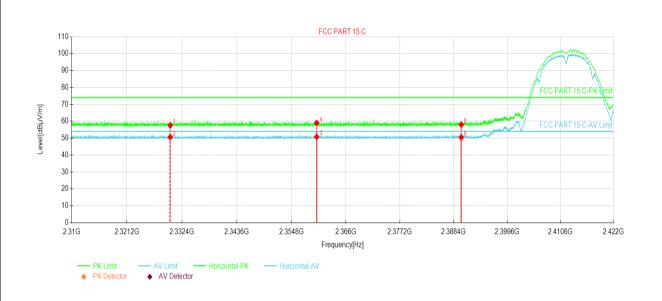
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.21	57.62	35.41	74.00	16.38	PK	Horizontal
2	2330.00	15.20	50.61	35.41	54.00	3.39	AV	Horizontal
3	2360.00	15.18	50.81	35.63	54.00	3.19	AV	Horizontal
4	2360.00	23.32	58.95	35.63	74.00	15.05	PK	Horizontal
5	2390.00	22.14	57.98	35.84	74.00	16.02	PK	Horizontal
6	2390.00	14.61	50.45	35.84	54.00	3.55	AV	Horizontal

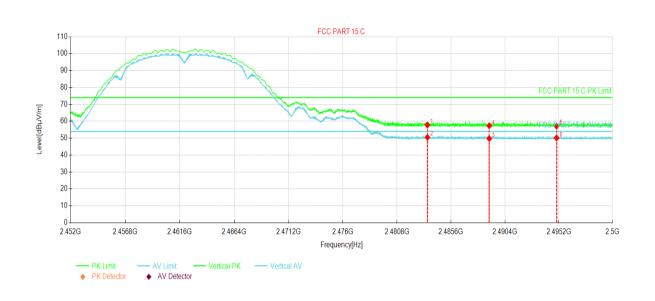
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.07	57.79	35.72	74.00	16.21	PK	Vertical
2	2483.50	14.79	50.51	35.72	54.00	3.49	AV	Vertical
3	2489.00	14.07	49.78	35.71	54.00	4.22	AV	Vertical
4	2489.00	21.62	57.33	35.71	74.00	16.67	PK	Vertical
5	2495.00	21.38	57.07	35.69	74.00	16.93	PK	Vertical
6	2495.00	14.44	50.13	35.69	54.00	3.87	AV	Vertical

Remark

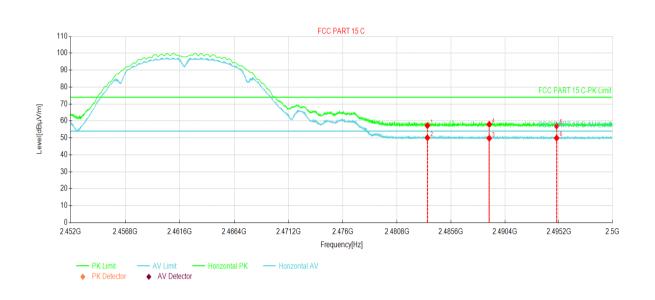
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	21.50	57.22	35.72	74.00	16.78	PK	Horizontal
2	2483.50	14.36	50.08	35.72	54.00	3.92	AV	Horizontal
3	2489.00	14.10	49.81	35.71	54.00	4.19	AV	Horizontal
4	2489.00	22.30	58.01	35.71	74.00	15.99	PK	Horizontal
5	2495.00	21.40	57.09	35.69	74.00	16.91	PK	Horizontal
6	2495.00	14.23	49.92	35.69	54.00	4.08	AV	Horizontal

Remark:

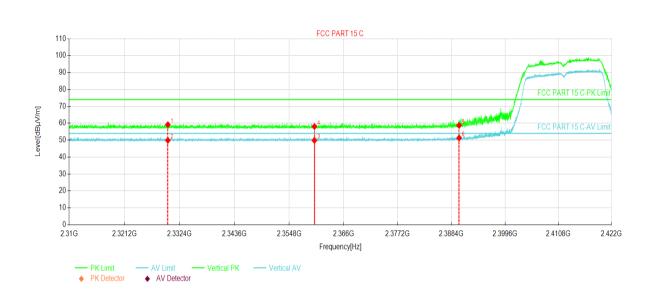
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11g mode:

Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V	Environment:	Temp: 24℃ Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	23.77	59.18	35.41	74.00	14.82	PK	Vertical
2	2330.00	14.51	49.92	35.41	54.00	4.08	AV	Vertical
3	2360.00	14.25	49.88	35.63	54.00	4.12	AV	Vertical
4	2360.00	22.45	58.08	35.63	74.00	15.92	PK	Vertical
5	2390.00	22.89	58.73	35.84	74.00	15.27	PK	Vertical
6	2390.00	15.50	51.34	35.84	54.00	2.66	AV	Vertical

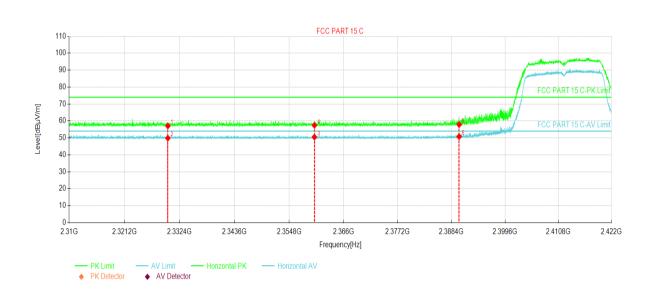
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	21.67	57.08	35.41	74.00	16.92	PK	Horizontal
2	2330.00	14.47	49.88	35.41	54.00	4.12	AV	Horizontal
3	2360.00	14.87	50.50	35.63	54.00	3.50	AV	Horizontal
4	2360.00	21.82	57.45	35.63	74.00	16.55	PK	Horizontal
5	2390.00	22.02	57.86	35.84	74.00	16.14	PK	Horizontal
6	2390.00	14.97	50.81	35.84	54.00	3.19	AV	Horizontal

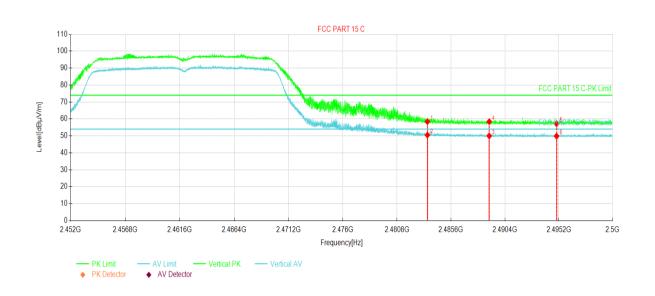
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202	
Test By:	Mike	Test mode:	802.11g Tx mode	
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%	



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.65	58.37	35.72	74.00	15.63	PK	Vertical
2	2483.50	14.79	50.51	35.72	54.00	3.49	AV	Vertical
3	2489.00	14.28	49.99	35.71	54.00	4.01	AV	Vertical
4	2489.00	22.71	58.42	35.71	74.00	15.58	PK	Vertical
5	2495.00	21.49	57.18	35.69	74.00	16.82	PK	Vertical
6	2495.00	14.18	49.87	35.69	54.00	4.13	AV	Vertical

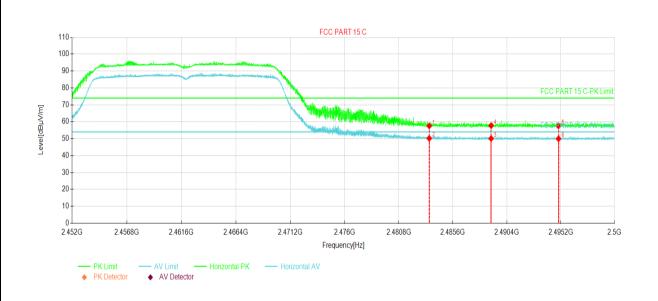
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	21.83	57.55	35.72	74.00	16.45	PK	Horizontal
2	2483.50	14.48	50.20	35.72	54.00	3.80	AV	Horizontal
3	2489.00	14.38	50.09	35.71	54.00	3.91	AV	Horizontal
4	2489.00	22.02	57.73	35.71	74.00	16.27	PK	Horizontal
5	2495.00	21.87	57.56	35.69	74.00	16.44	PK	Horizontal
6	2495.00	14.29	49.98	35.69	54.00	4.02	AV	Horizontal

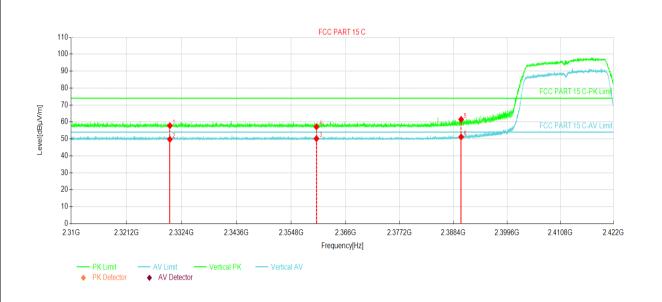
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



802.11n(HT20):

Product Name:	4G Smart Phone	Product Model:	C202	
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode	
Test Channel:	Lowest channel	Polarization:	Vertical	
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%	



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.39	57.80	35.41	74.00	16.20	PK	Vertical
2	2330.00	14.36	49.77	35.41	54.00	4.23	AV	Vertical
3	2360.00	14.53	50.16	35.63	54.00	3.84	AV	Vertical
4	2360.00	21.53	57.16	35.63	74.00	16.84	PK	Vertical
5	2390.00	25.68	61.52	35.84	74.00	12.48	PK	Vertical
6	2390.00	15.33	51.17	35.84	54.00	2.83	AV	Vertical

Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



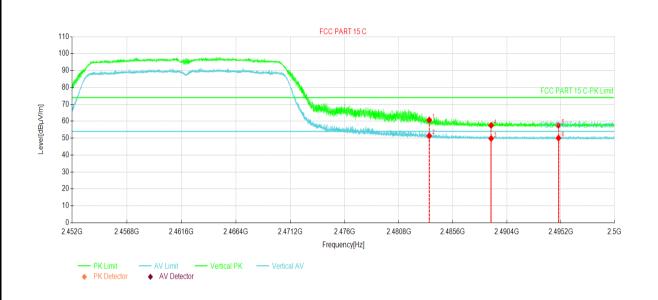
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	23.21	58.62	35.41	74.00	15.38	PK	Horizontal
2	2330.00	14.78	50.19	35.41	54.00	3.81	AV	Horizontal
3	2360.00	15.02	50.65	35.63	54.00	3.35	AV	Horizontal
4	2360.00	23.29	58.92	35.63	74.00	15.08	PK	Horizontal
5	2390.00	24.10	59.94	35.84	74.00	14.06	PK	Horizontal
6	2390.00	15.56	51.40	35.84	54.00	2.60	AV	Horizontal

Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V	Environment:	Temp: 24℃ Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	25.01	60.73	35.72	74.00	13.27	PK	Vertical
2	2483.50	15.66	51.38	35.72	54.00	2.62	AV	Vertical
3	2489.00	14.11	49.82	35.71	54.00	4.18	AV	Vertical
4	2489.00	21.85	57.56	35.71	74.00	16.44	PK	Vertical
5	2495.00	21.87	57.56	35.69	74.00	16.44	PK	Vertical
6	2495.00	14.38	50.07	35.69	54.00	3.93	AV	Vertical

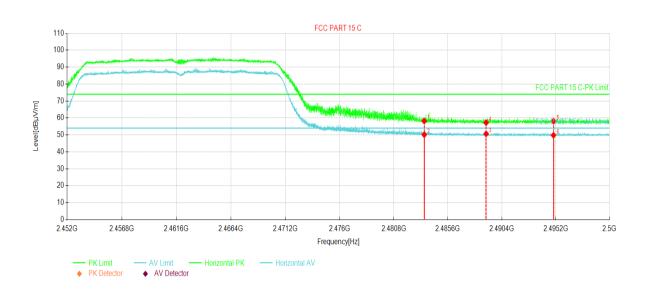
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.46	58.18	35.72	74.00	15.82	PK	Horizontal
2	2483.50	14.40	50.12	35.72	54.00	3.88	AV	Horizontal
3	2489.00	14.93	50.64	35.71	54.00	3.36	AV	Horizontal
4	2489.00	21.51	57.22	35.71	74.00	16.78	PK	Horizontal
5	2495.00	22.44	58.13	35.69	74.00	15.87	PK	Horizontal
6	2495.00	14.09	49.78	35.69	54.00	4.22	AV	Horizontal

Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)				
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 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 under this paragraph shall be 30 dB instead of 20 dB.				
Test setup:	NS182B NS18B NS182B NS18B NS182B NS18B N				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				
Measurement Data:	Refer to Appendix A - 2.4G WIFI				

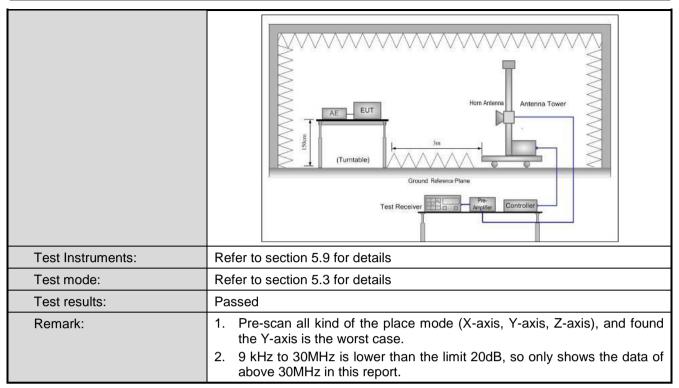
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6.7.2 Radiated Emission Method

6.7.2 Radiated Emission Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Frequency Range:	9kHz to 25GHz								
Test Distance:	3m or 10m								
Receiver setup:	Frequency	Detec	tor	RBW	V	BW	Remark		
	30MHz-1GHz	Quasi-p	oeak	120KHz	300	OKHz	Quasi-peak Value		
	Above 1GHz	Pea	k	1MHz	31	ИHz	Peak Value		
	Above 10112	RMS		1MHz		ИHz	Average Value		
Limit:	Frequency		Limit	(dBuV/m @10)m)		Remark		
	30MHz-88MH	+		30.0			uasi-peak Value		
	88MHz-216MH			33.5			uasi-peak Value		
	216MHz-960M			36.0			uasi-peak Value		
	960MHz-1GH	1Z	Limi	44.0	\	Q	uasi-peak Value		
	Frequency		LIIIII	t (dBuV/m @3i 54.0	111)		Remark Average Value		
	Above 1GHz	<u>z</u>		74.0		· '	Peak Value		
Test Procedure:	1. The EUT wa	as place	d on		a rot	tating	table 0.8m(below		
Test setup:	(below 1GHz 360 degrees 2. The EUT was away from the top of a vide 3. The antenna ground to det horizontal and measuremen 4. For each sus and then the and the rota to maximum reasonable 5. The test-rece Specified Bar 6. If the emission limit specified the EUT would 10dB margin average method with the substitution of the subs	c) or 3 met to determ s set 10 ne interfer rariable-ha height is termine the d vertical at. pected er antenna table was ading. siver system on level of d, then test ld be reported.	ter chaster chaster chaster chaster the meters rence-reight a varied ne max polarizmission was turned turned the Elsting coorted. (e) re-tes	mber(above e position of to be position of to be position of to be position of the position of	1GHz the hid z) or enna, the ter to of the ante as arre s from ees to Dete Mode wo oed are e emis ne us	z). The ghest ranged of the positions are considered the positions are considered to the posit	ters(above 1GHz) was mounted on neters above the trength. Both e set to make the to its worst case ter to 4 meters legrees to find the ction and dB lower than the beak values of that did not have ak, quasi-peak or		
. oct octop.	Below 1GHz EUT Turn Table Ground Pla Above 1GHz	0.8m	4m			Searc Anter	nna :		



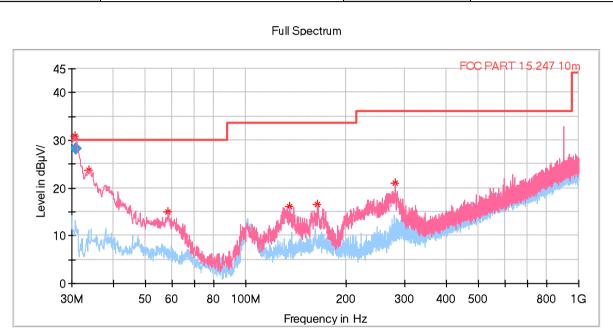




Measurement Data (worst case):

Below 1GHz:

Product Name:	4G Smart Phone	Product Model:	C202
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%



Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.776000	30.79	30.00	-0.79	100.0	V	16.0	-17.5
33.686000	23.72	30.00	6.28	100.0	V	337.0	-16.9
58.324000	14.95	30.00	15.05	100.0	V	150.0	-16.2
135.633000	16.09	33.50	17.41	100.0	V	255.0	-16.0
164.345000	16.49	33.50	17.01	100.0	V	55.0	-15.8
280.745000	21.12	36.00	14.88	100.0	V	333.0	-14.2

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.919000	28.22	30.00	1.78	125.0	٧	41.0	-17.4

Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Above 1GHz

Above 1GHz						
			802.11b			
		Test ch	annel: Lowest ch	nannel		
	_	De	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	54.37	-9.46	44.91	74.00	29.09	Vertical
4824.00	53.46	-9.46	44.00	74.00	30.00	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	46.40	-9.46	36.94	54.00	17.06	Vertical
4824.00	47.37	-9.46	37.91	54.00	16.09	Horizontal
		T	I Million	1		
			annel: Middle ch			
	I 6	Dei	tector: Peak Valu		NA	1
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	54.12	-9.11	45.01	74.00	28.99	Vertical
4874.00	53.31	-9.11	44.20	74.00	29.80	Horizontal
	_	Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	46.53	-9.11	37.42	54.00	16.58	Vertical
4874.00	47.25	-9.11	38.14	54.00	15.86	Horizontal
			annel: Highest c			
		Det	tector: Peak Valu		T	T
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	54.49	-8.74	45.75	74.00	28.25	Vertical
4924.00	53.64	-8.74	44.90	74.00	29.10	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	46.56	-8.74	37.82	54.00	16.18	Vertical
4924.00	47.58	-8.74	38.84	54.00	15.16	Horizontal

Remark:

^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





			802.11g			
		Test ch	annel: Lowest ch	nannel		
		Det	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	54.26	-9.46	44.80	74.00	29.20	Vertical
4824.00	53.31	-9.46	43.85	74.00	30.15	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	46.45	-9.46	36.99	54.00	17.01	Vertical
4824.00	47.46	-9.46	38.00	54.00	16.00	Horizontal

	Test ch	annel: Middle ch	nannel		
	Det	tector: Peak Valu	ie		
Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
54.43	-9.11	45.32	74.00	28.68	Vertical
53.29	-9.11	44.18	74.00	29.82	Horizontal
	Dete	ctor: Average Va	alue		
Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
46.59	-9.11	37.48	54.00	16.52	Vertical
47.53	-9.11	38.42	54.00	15.58	Horizontal
	(dBuV) 54.43 53.29 Read Level (dBuV) 46.59	Read Level (dBuV) Factor(dB) 54.43 -9.11 53.29 -9.11 Dete Read Level (dBuV) Factor(dB) 46.59 -9.11	Detector: Peak Value	(dBuV) Factor(dB) (dBuV/m) (dBuV/m) 54.43 -9.11 45.32 74.00 53.29 -9.11 44.18 74.00 Detector: Average Value Read Level (dBuV) Level (dBuV/m) Limit Line (dBuV/m) (dBuV/m) -9.11 37.48 54.00	Detector: Peak Value Read Level (dBuV)

		Test ch	annel: Highest c	hannel					
		De	tector: Peak Valu	ie					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4924.00	54.33	-8.74	45.59	74.00	28.41	Vertical			
4924.00	53.42	-8.74	44.68	74.00	29.32	Horizontal			
	Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4924.00	46.38	-8.74	37.64	54.00	16.36	Vertical			
4924.00	47.25	-8.74	38.51	54.00	15.49	Horizontal			

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Final Level = Receiver Read level + Factor.

The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





			802.11n(HT20)			
			annel: Lowest ch			
_	T =	Det	tector: Peak Valu		1	1
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	54.42	-9.46	44.96	74.00	29.04	Vertical
4824.00	53.57	-9.46	44.11	74.00	29.89	Horizontal
		Dete	ctor: Average Va	llue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	46.34	-9.46	36.88	54.00	17.12	Vertical
4824.00	47.29	-9.46	37.83	54.00	16.17	Horizonta
		Toot ob	annel: Middle ch	annal		
	D II I	Dei	tector: Peak Valu		Marain	Τ
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	54.26	-9.11	45.15	74.00	28.85	Vertical
4874.00	53.37	-9.11	44.26	74.00	29.74	Horizonta
		Dete	ctor: Average Va	llue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	46.45	-9.11	37.34	54.00	16.66	Vertical
4874.00	47.31	-9.11	38.20	54.00	15.80	Horizonta
		Test ch	annel: Highest ch	nannel		
			tector: Peak Valu			
Frequency	Read Level		Level	Limit Line	Margin	Τ
(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarization
4924.00	54.63	-8.74	45.89	74.00	28.11	Vertical
	53.71	-8.74	44.97	74.00	29.03	Horizonta
4924.00			ctor: Average Va	ılue		
		Dete	oton, , tronago vo			
	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00 Frequency			Level		_	Polarizatio Vertical

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The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





8 EUT Constructional Details

Reference to the test report No.: JYTSZB-R12-2102662.

-----End of report-----