

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102004

FCC REPORT (WIFI)

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35

SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: BD2d

Trade mark: TECNO

FCC ID: 2ADYY-BD2D

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

Date of sample receipt: 28 Sep., 2021

Date of Test: 29 Sep., to 18 Oct., 2021

Date of report issued: 18 Oct., 2021

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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	18 Oct., 2021	Original

Tested by: Janet Wei Date: 18 Oct., 2021
Test Engineer

Reviewed by: Date: 18 Oct., 2021

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	45 247 (4)	Appendix A – 2.4G Wi-Fi	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	15 205 8 15 200	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. N/A: Not Applicable.
- 3. 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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5 General Information

5.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone		
Model No.:	BD2d		
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)		
	2422MHz~2452MHz: 802.11n(HT40)		
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)		
	7: 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:	-2.5dBi		
Power supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4850mAh		
AC adapter:	Model: A8-501000		
	Input: AC100-240V, 50/60Hz, 200mA		
	Output: DC 5.0V, 1.0A		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

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;
- 2. 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.

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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				
802.11n(HT40)	13.5Mbps				

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
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 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

5.6 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 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.

• 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





5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

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

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.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	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
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	11-27-2020	11-26-2021
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	

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	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022	
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	11-27-2020	11-26-2021	
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021	
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021	
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021	
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	11-26-2021
Temperature Humidity Chamber	ZhongZhi	CZ-C-150D	ZH16491 11-01-2020 10-31-		10-31-2021
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 -2.5 dBi.

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6.2 Conducted Emission

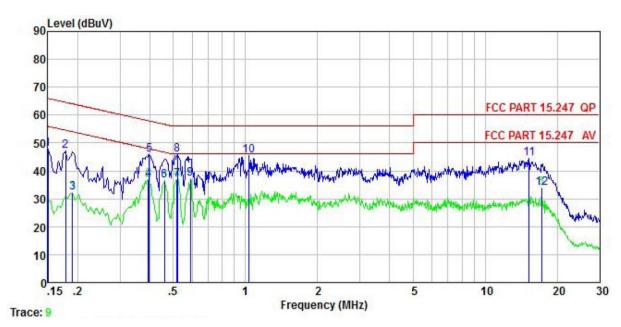
Test Requirement:	FCC Part 15 C Section 15.2	207							
Test Frequency Range:	150 kHz to 30 MHz								
Class / Severity:	Class B	Class B							
Receiver setup:	RBW=9 kHz, VBW=30 kHz								
Limit:	Fraguenov rango (MHz)	Limit (d	dBuV)						
	Frequency range (MHz)	Quasi-peak	Average						
	0.15-0.5	66 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:	Mobile Phone	Product model:	BD2d
Test by:	Janet	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%



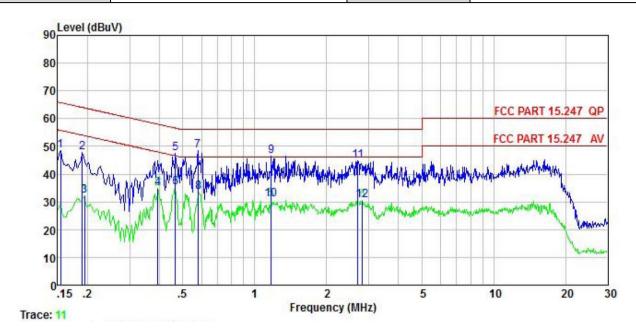
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	₫B	₫B	₫B	dBu₹	dBu∜	dB	
1	0.150	37.70	10.22	-0.05	0.01	47.88	66.00	-18.12	QP
2	0.178	36.95	10.23	-0.12	0.01	47.07	64.59	-17.52	QP
3	0.190	21.99	10.23	-0.14	0.03	32.11	54.02	-21.91	Average
4	0.393	26.06	10.28	0.38	0.04	36.76	47.99	-11.23	Average
1 2 3 4 5 6 7 8	0.398	35.10	10.28	0.40	0.04	45.82	57.90	-12.08	QP
6	0.459	26.16	10.29	-0.06	0.03	36.42	46.71	-10.29	Average
7	0.518	27.04	10.29	-0.36	0.03	37.00	46.00	-9.00	Average
8	0.521	35.92	10.29	-0.36	0.03	45.88	56.00	-10.12	QP
9	0.589	27.33	10.29	-0.37	0.02	37.27	46.00	-8.73	Average
10	1.037	34.72	10.32	0.42	0.06	45.52	56.00	-10.48	QP
11	15.226	30.21	10.77	3.53	0.14	44.65	60.00	-15.35	QP
12	17.199	20.46	10.83	2.37	0.15	33.81	50.00	-16.19	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 + Aux Factor + Cable Loss.



Product name:	Mobile Phone	Product model:	BD2d
Test by:	Janet	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%



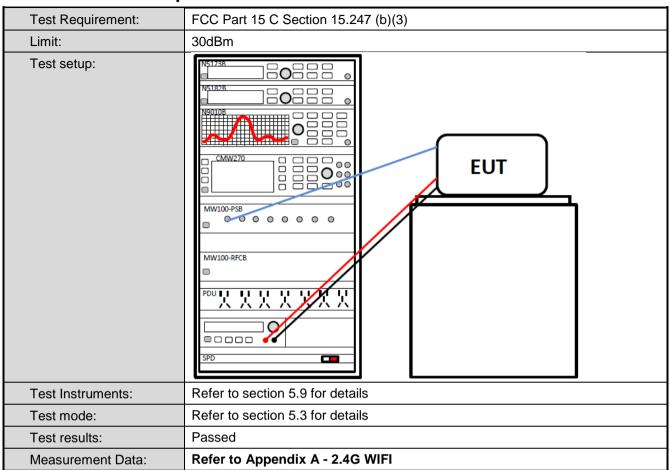
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
_	MHz	dBu₹	<u>dB</u>	<u>d</u> B	dB	dBu₹	—dBu₹	<u>dB</u>	
1	0.154	38.44	10.19	0.01	0.01	48.65	65.78	-17.13	QP
2	0.190	37.45	10.21	0.00	0.03	47.69	64.02	-16.33	QP
3	0.194	21.86	10.22	0.00	0.03	32.11	53.84	-21.73	Average
4	0.393	24.58	10.27	-0.06	0.04	34.83	47.99	-13.16	Average
1 2 3 4 5 6 7 8 9	0.466	37.06	10.28	0.00	0.03	47.37	56.58	-9.21	QP
6	0.466	24.89	10.28	0.00	0.03	35.20	46.58	-11.38	Average
7	0.579	38.21	10.29	0.03	0.02	48.55	56.00	-7.45	QP
8	0.582	23.21	10.29	0.03	0.02	33.55	46.00	-12.45	Average
9	1.172	35.98	10.31	0.10	0.09	46.48	56.00	-9.52	QP
10	1.172	20.49	10.31	0.10	0.09	30.99	46.00	-15.01	Average
11	2.707	34.16	10.33	0.27	0.11	44.87	56.00	-11.13	QP
12	2.824	19.85	10.34	0.29	0.09	30.57	46.00	-15.43	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 + Aux Factor + Cable Loss.

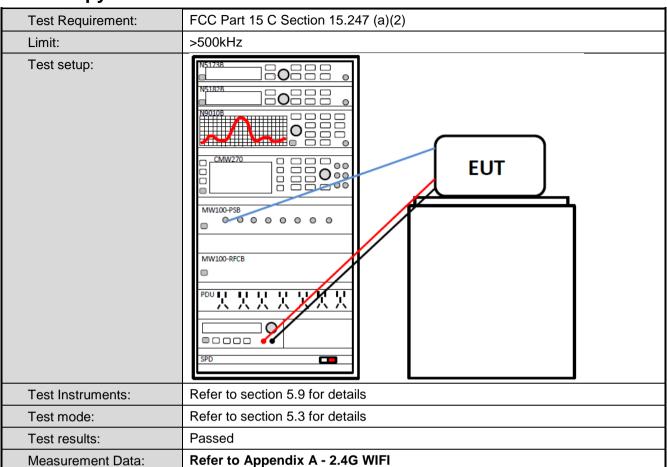


6.3 Conducted Output Power



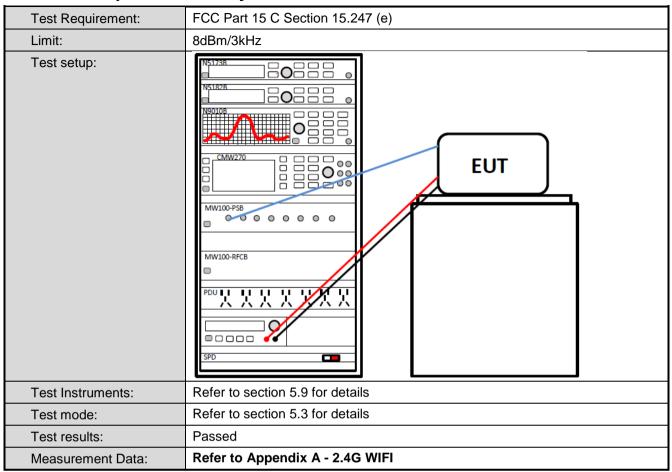


6.4 Occupy Bandwidth





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:	NS182B NS18B NS182B NS18B NS182B NS18B NS1B NS18B NS18B NS18B NS1B NS1B NS1B NS1B NS1B NS1B NS1B NS1					
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					



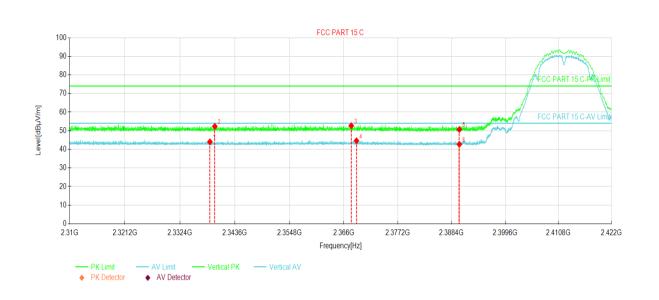
6.6.2 Radiated Emission Method

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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



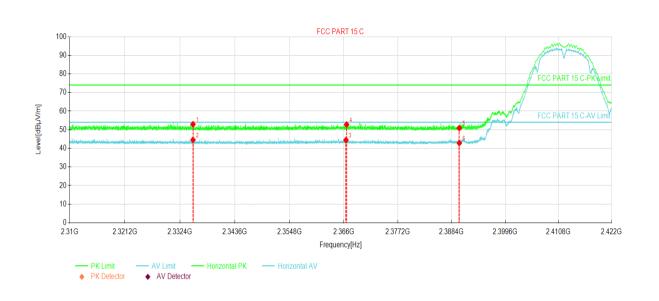
NO.₽	Freq.⊌	Reading⊬	Level⊬	Factor	Limit⊬	Margin⊬	Trace	Polarity∂
NO.₽	[MHz]∂	[dBµV/m]₽	[dBµV/m]₽	[dB]∂	[dBµV/m]∂	[dB] <i>₀</i>	Hace	Polarity
1₽	2338.49	37.12₽	44.03₽	6.91₽	54.00₽	9.97₽	AV₄⋾	Vertical₽
2 4 ³	2339.49	45.41₽	52.32₽	6.91₽	74.00₽	21.68₽	PK₽	Vertical₽
3₽	2367.55	45.67₽	52.67₽	7.00₽	74.00₽	21.33₽	PK₽	Vertical₽
4 0	2368.63	37.57₽	44.58₽	7.01₽	54.00₽	9.42₽	AV₽	Vertical₽
5₽	2390.01	43.58₽	50.66₽	7.08₽	74.00₽	23.34	PK₽	Vertical₽
6₽	2390.01	35.63₽	42.71₽	7.08₽	54.00₽	11.29₽	AV₄⋾	Vertical₽

Remark:

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq. <i></i> [MHz]∂	Reading⊮ [dBµV/m]⊮	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊬	Trace∂	Polarity₀
1₽	2335.04	46.02₽	52.92₽	6.90₽	74.00₽	21.08₽	PK₽	Horizontal₽
2↔	2335.04	37.61₽	44.51₽	6.90₽	54.00₽	9.49₽	AV₽	Horizontal₽
3₽	2366.46	37.43₽	44.43₽	7.00₽	54.00₽	9.57₽	AV₽	Horizontal₽
4₽	2366.58	45.75₽	52.75₽	7.00₽	74.00₽	21.25₽	PK₽	Horizontal₽
5₽	2390.01	43.81₽	50.89₽	7.08₽	74.00₽	23.11₽	PK₽	Horizontal₽
6₽	2390.01	35.77₽	42.85₽	7.08₽	54.00₽	11.15₽	AV₽	Horizontal₽

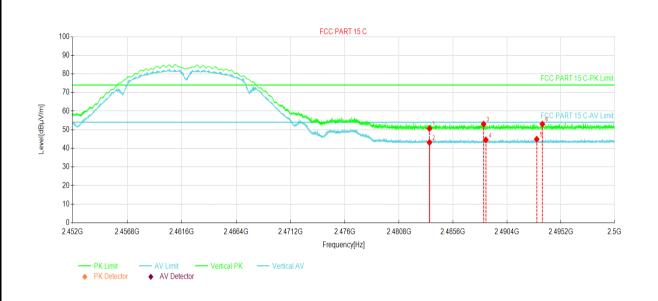
Remark:

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.⊌	Reading⊬	Level⊬	Factor	Limit⊬	Margin	Trace	Polarity∂
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB] <i>₀</i>	Hace	Polanty
1₽	2483.50	42.94₽	50.63₽	7.69₽	74.00₽	23.37₽	PK₽	Vertical₽
2₽	2483.50	35.46₽	43.15₽	7.69₽	54.00₽	10.85₽	AV₽	Vertical₽
3₽	2488.31	45.31₽	53.03₽	7.72₽	74.00₽	20.97₽	PK₽	Vertical₽
4₽	2488.51	36.83₽	44.55₽	7.72₽	54.00₽	9.45₽	AV₄⊃	Vertical₽
5₽	2493.05	37.14₽	44.89₽	7.75₽	54.00₽	9.11∂	AV₄⊃	Vertical₽
6₽	2493.55	45.26₽	53.02₽	7.76₽	74.00₽	20.98₽	PK₽	Vertical₽

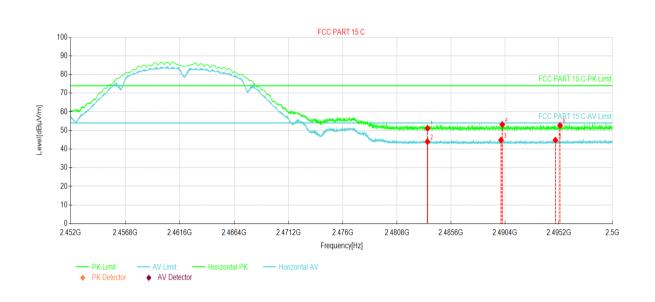
Remark

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	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	43.46₽	51.15₽	7.69₽	74.00₽	22.85₽	PK₽	Horizontal₽
2 43	2483.50	36.31₽	44.00₽	7.69₽	54.00₽	10.00₽	AV₽	Horizontal₽
3₽	2490.04	37.09₽	44.82₽	7.73₽	54.00₽	9.18₽	AV₽	Horizontal₽
4 0	2490.16	45.44₽	53.17₽	7.73₽	74.00₽	20.83₽	PK₽	Horizontal₽
5₽	2494.89	37.03	44.79₽	7.76₽	54.00₽	9.21₽	AV₄⊃	Horizontal₽
6₽	2495.31	44.92₽	52.69₽	7.77₽	74.00₽	21.31₽	PK₽	Horizontal₽

Remark:

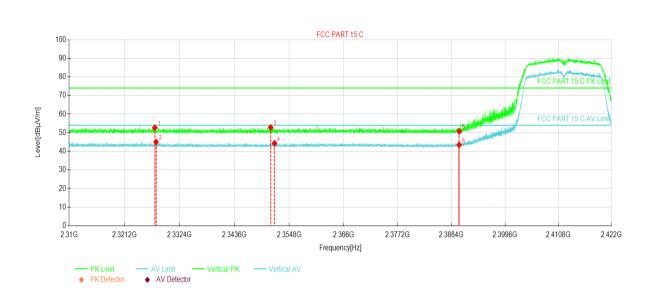
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11g mode:

Product Name:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



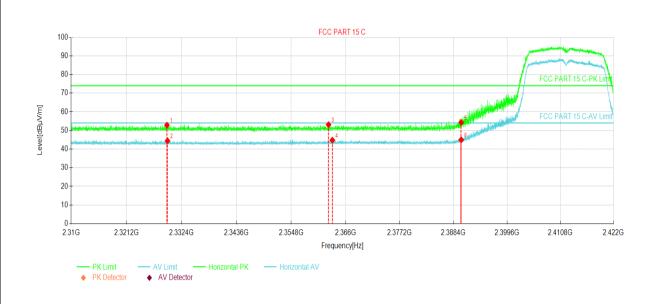
NO.₽	Freq.⊌ [MHz]⊌	Reading⊮ [dBµV/m]⊮	Level⊬ [dBµV/m]⊮	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace	Polarity
1₽	2327.34	45.83₽	52.70₽	6.87₽	74.00₽	21.30	PK₽	Vertical <i></i> ₽
2₽	2327.59	38.13₽	45.00₽	6.87₽	54.00₽	9.00₽	AV₽	Vertical₽
3₽	2350.99	45.86₽	52.81₽	6.95₽	74.00₽	21.19	PK₽	Vertical₽
4₽	2351.79	37.32₽	44.27₽	6.95₽	54.00₽	9.73₽	AV₽	Vertical₽
5₽	2390.01	43.63₽	50.71₽	7.08₽	74.00₽	23.29₽	PK₽	Vertical₽
6₽	2390.01	36.40₽	43.48₽	7.08₽	54.00₽	10.52₽	AV₽	Vertical₽

Remark

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



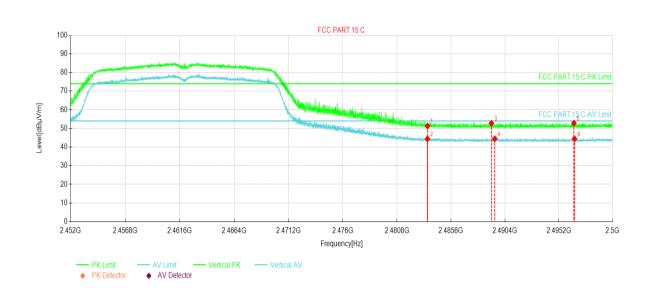
NO.₽	Freq.⊲ [MHz]∂	Reading√ [dBµV/m]√	Level⊬ [dBµV/m]₽	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace∂	Polarity∂
1₽	2329.40	45.94₽	52.82₽	6.88₽	74.00₽	21.18₽	PK₽	Horizontal₽
2↔	2329.51	37.55₽	44.43₽	6.88₽	54.00₽	9.57₽	AV₽	Horizontal₽
3₽	2362.50	46.08₽	53.07₽	6.99₽	74.00₽	20.93₽	PK₽	Horizontal₽
4₽	2363.28	37.79₽	44.78₽	6.99₽	54.00₽	9.22₽	AV₽	Horizontal₽
5₽	2390.01	47.19₽	54.27₽	7.08₽	74.00₽	19.73₽	PK₽	Horizontal₽
6₽	2390.01	37.87₽	44.95₽	7.08₽	54.00₽	9.05₽	AV₽	Horizontal∉

Remark:

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



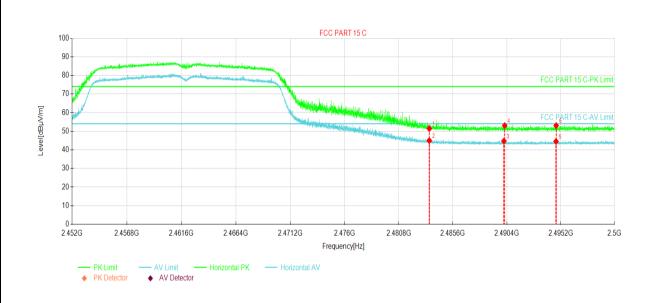
NO.₽	Freq. [MHz]∂	Reading√ [dBµV/m]√	Level. [dBµV/m].	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊮	Trace	Polarity∉
1₽	2483.50	43.59₽	51.28₽	7.69₽	74.00₽	22.72₽	PK₽	Vertical₽
2₊⋾	2483.50	36.72₽	44.41₽	7.69₽	54.00₽	9.59₽	AV₽	Vertical₽
3₊□	2489.18	45.03₽	52.76₽	7.73₽	74.00₽	21.24₽	PK₽	Vertical₽
4₽	2489.49	36.75₽	44.48₽	7.73₽	54.00₽	9.52₽	AV₽	Vertical₽
5₽	2496.55	45.07₽	52.85₽	7.78₽	74.00₽	21.15₽	PK₽	Vertical₽
6₽	2496.60	36.64₽	44.42₽	7.78₽	54.00₽	9.58₽	AV₽	Vertical₽

Remark

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	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	43.75₽	51.44₽	7.69₽	74.00₽	22.56₽	PK₽	Horizontal₽
2↩	2483.50	37.27₽	44.96₽	7.69₽	54.00₽	9.04₽	AV₽	Horizontal₽
3₽	2490.13	36.99₽	44.72₽	7.73₽	54.00₽	9.28₽	AV₽	Horizontal₽
4₽	2490.20	45.30₽	53.03₽	7.73₽	74.00₽	20.97₽	PK₽	Horizontal₽
5₽	2494.78	36.78₽	44.54₽	7.76₽	54.00₽	9.46₽	AV₽	Horizontal₽
6₽	2494.79	45.27₽	53.03₽	7.76₽	74.00₽	20.97₽	PK₽	Horizontal₽

Remark:

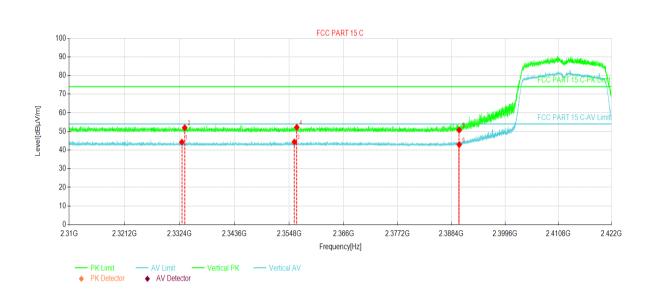
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT20):

Product Name:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.√ [MHz]∂	Reading [dBµV/m]	Level- [dBµV/m]-	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]∉	Trace∂	Polarity
1₽	2332.84	37.35₽	44.24₽	6.89₽	54.00₽	9.76₽	AV₽	Vertical₽
2₽	2333.43	45.11₽	52.00₽	6.89₽	74.00₽	22.00₽	PK₽	Vertical₽
3₽	2355.87	37.39₽	44.35₽	6.96₽	54.00₽	9.65₽	AV₽	Vertical₽
4 0	2356.36	45.22₽	52.19₽	6.97₽	74.00₽	21.81₽	PK₽	Vertical₽
5₽	2390.01	43.62₽	50.70₽	7.08₽	74.00₽	23.30₽	PK₽	Vertical₽
6₽	2390.01	35.85₽	42.93₽	7.08₽	54.00₽	11.07₽	AV₽	Vertical₽

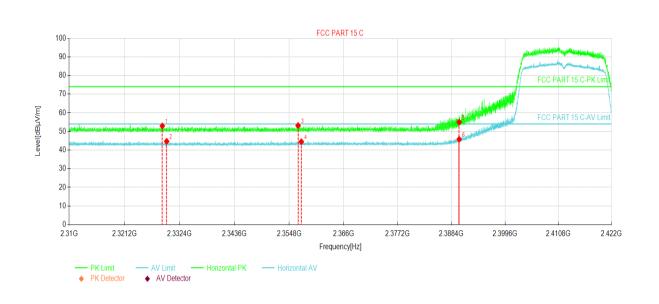
Remark:

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

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



Product Name:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	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₽	2328.87	46.06₽	52.94₽	6.88₽	74.00₽	21.06₽	PK₽	Horizontal₽⊸
2₊⋾	2329.75	37.79₽	44.67₽	6.88	54.00₽	9.33₽	AV₽	Horizontal₽⊸
3₽	2356.63	46.16₽	53.13₽	6.97₽	74.00₽	20.87₽	PK₽	Horizontal₽⊸
4 0	2357.30	37.51₽	44.48₽	6.97₽	54.00₽	9.52₽	AV₽	Horizontal₽⊸
5₽	2390.01	47.91₽	54.99₽	7.08₽	74.00₽	19.01₽	PK₽	Horizontal₽⊸
6₽	2390.01	38.71₽	45.79₽	7.08₽	54.004	8.21₽	AV₽	Horizontal₽

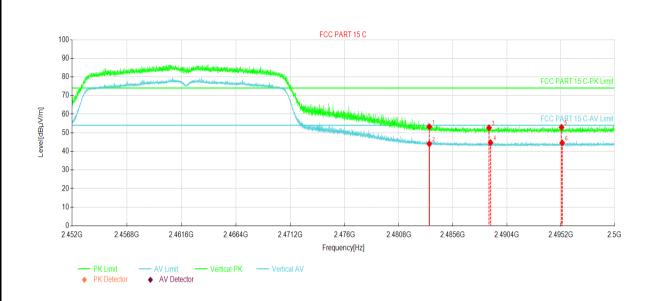
Remark

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



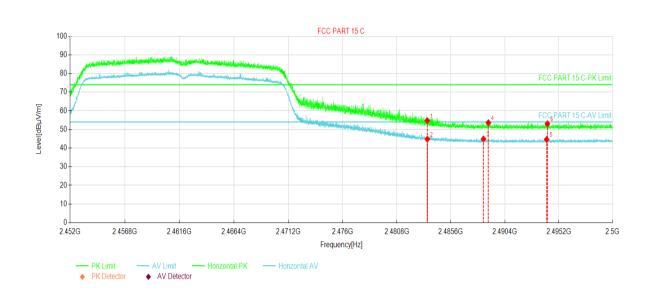
NO.₽	Freq. [MHz]∂	Reading√ [dBµV/m]√	Level√ [dBµV/m]√	Factor⊬ [dB]⊮	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace	Polarity∂
1₽	2483.50	45.51₽	53.20₽	7.69₽	74.00₽	20.80₽	PK₽	Vertical₽
2 43	2483.50	36.33₽	44.02₽	7.69₽	54.00₽	9.98₽	AV₽	Vertical₽
3₽	2488.81	44.94₽	52.66₽	7.72₽	74.00₽	21.34	PK₽	Vertical₽
4 0	2488.94	36.96₽	44.68₽	7.72₽	54.00₽	9.32₽	AV₽	Vertical₽
5₽	2495.27	45.16₽	52.93₽	7.77₽	74.00₽	21.07₽	PK₽	Vertical₽
6₽	2495.32	36.73₽	44.50₽	7.77₽	54.00₽	9.50₽	AV₽	Vertical₽

Remark

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	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	47.04₽	54.73₽	7.69₽	74.00₽	19.27₽	PK₽	Horizontal₽
2₊□	2483.50	37.11₽	44.80₽	7.69₽	54.00₽	9.20₽	AV₽	Horizontal₽
3₽	2488.49	37.16₽	44.88₽	7.72₽	54.00₽	9.12₽	AV₽	Horizontal₽
4 0	2488.93	45.87₽	53.59₽	7.72₽	74.00₽	20.41₽	PK₽	Horizontal₽
5₽	2494.12	36.87₽	44.63₽	7.76₽	54.00₽	9.37₽	AV₽	Horizontal₽
6₽	2494.19	45.28₽	53.04₽	7.76₽	74.00₽	20.96₽	PK₽	Horizontal₽

Remark:

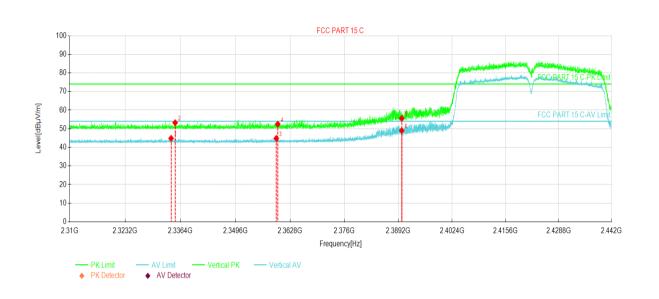
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT40):

Product Name:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.√ [MHz]∂	Reading⊬ [dBµV/m]⊬	Level⊬ [dBµV/m]₽	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace	Polarity∂
1 ₽	2334.17	37.93₽	44.82₽	6.89₽	54.00₽	9.18₽	AV₽	Vertical₽
2₊□	2335.14	46.32₽	53.22₽	6.90₽	74.00₽	20.78₽	PK₽	Vertical₽
3₽	2359.48	37.81₽	44.79₽	6.98₽	54.00₽	9.21₽	AV₽	Vertical₽
4₽	2359.84	45.46₽	52.44₽	6.98₽	74.00₽	21.56₽	PK₽	Vertical₽
5₽	2390.02	48.50₽	55.58₽	7.08₽	74.00₽	18.42₽	PK₽	Vertical₽
6₽	2390.02	41.91₽	48.99₽	7.08₽	54.00₽	5.01₽	AV₽	Vertical₽

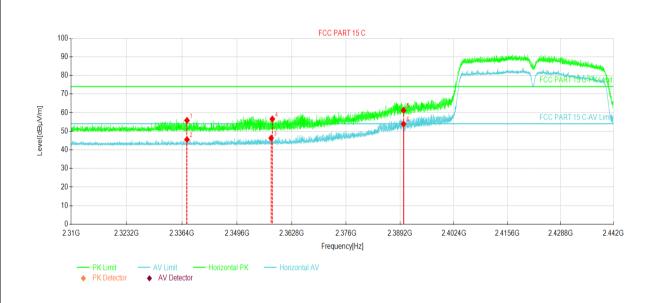
Remark

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



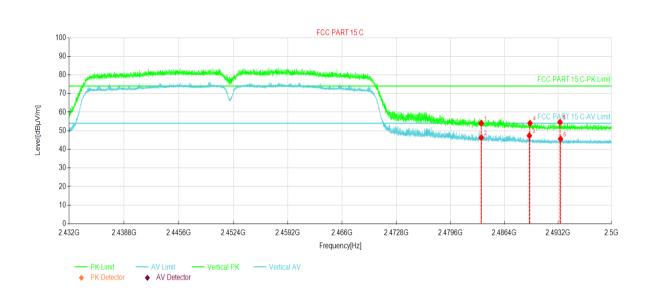
NO.₽	Freq.⊬ [MHz]ℯ	Reading√ [dBµV/m]√	Level- [dBµV/m]-	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊮	Trace	Polarity∂
1₽	2337.58	48.92₽	55.82₽	6.90₽	74.00₽	18.18₽	PK₽	Horizontal₽
2₽	2337.58	38.60₽	45.50₽	6.90₽	54.00₽	8.50₽	AV₽	Horizontal₽
3₽	2357.83	39.33₽	46.30₽	6.97₽	54.00₽	7.70₽	AV₽	Horizontal₽
4₽	2358.11	49.60₽	56.57₽	6.97₽	74.00₽	17.43₽	PK₽	Horizontal₽
5₽	2390.02	54.17₽	61.25₽	7.08₽	74.00₽	12.75₽	PK₽	Horizontal₽
6₽	2390.02	46.79₽	53.87₽	7.08₽	54.00₽	0.13₽	AV₽	Horizontal₽

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

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Product Name:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.↵ [MHz]ℯ	Reading⊮ [dBµV/m]⊮	Level. [dBµV/m].	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]∉	Margin⊬ [dB]⊮	Trace	Polarity∂
1₽	2483.50	46.30₽	53.99₽	7.69₽	74.00₽	20.01₽	PK₽	Vertical₽
2₊□	2483.50	38.54₽	46.23₽	7.69₽	54.00₽	7.77₽	AV₽	Vertical₽
3₽	2489.57	39.58₽	47.31₽	7.73₽	54.00₽	6.69₽	AV₽	Vertical₽
4 0	2489.66	46.34₽	54.07₽	7.73₽	74.00₽	19.93₽	PK₽	Vertical₽
5₽	2493.46	46.84₽	54.59₽	7.75₽	74.00₽	19.41₽	PK₽	Vertical₽
6₽	2493.53	37.82₽	45.58₽	7.76₽	54.00₽	8.42₽	AV₽	Vertical₽

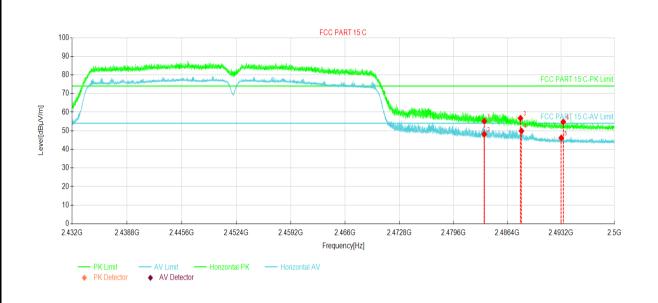
Remark:

- 1. Final Level = Receiver Read level + 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:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.√ [MHz]∂	Reading⊮ [dBµV/m]⊮	Level√ [dBuV/m]√	Factor⊬ [dB]⊮	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace	Polarity∂
1₽	2483.50	47.41₽	55.10₽	7.69₽	74.00₽	18.90₽	PK₽	Horizontal₽
2↔	2483.50	40.41₽	48.10₽	7.69₽	54.00₽	5.90₽	AV₽	Horizontal₽
3₽	2488.08	48.97₽	56.69₽	7.72₽	74.00₽	17.31₽	PK₽	Horizontal₽
4₽	2488.20	42.15₽	49.87₽	7.72₽	54.00₽	4.13₽	AV₽	Horizontal₽
5₽	2493.24	38.39₽	46.14₽	7.75₽	54.00₽	7.86₽	AV₽	Horizontal₽
6₽	2493.49	47.01₽	54.77₽	7.76₽	74.00₽	19.23₽	PK₽	Horizontal₽

Remark:

- 1. Final Level = Receiver Read level + 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.



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:	NS102B NS10B NS102B NS10B NS102B NS10B NS10B NS10B NS10B NS10B NS10B NS10B NS10B NS10B					
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					

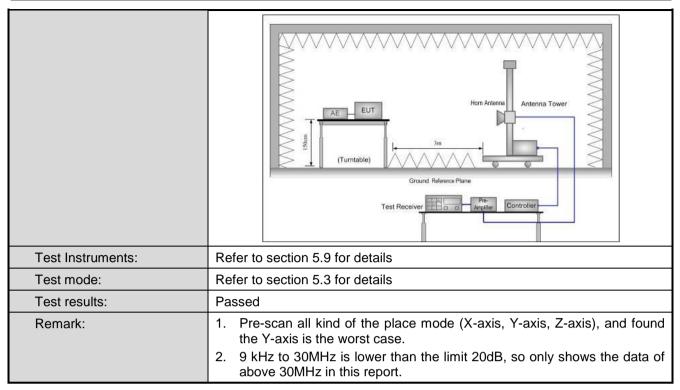
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6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency Detec		ctor	or RBW		BW	Remark
·	30MHz-1GHz Quasi-		peak	120KHz	300	KHz	Quasi-peak Value
	Above 1GHz	Pea	ık	1MHz	31	ИHz	Peak Value
		RM		1MHz		ИHz	Average Value
Limit:	Frequency		Limi	t (dBuV/m @3i	m)		Remark
							uasi-peak Value
	88MHz-216MH			43.5			uasi-peak Value
	216MHz-960M			46.0			uasi-peak Value
	960MHz-1GH	IZ		54.0			uasi-peak Value
	Above 1GHz	<u>.</u>		54.0		,	Average Value
Test Procedure:	1. 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. 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						eter chamber. Position of the e-receiving height antenna meters above the trength. Both e set to make the to its worst case ter to 4 meters degrees to find the etion and dB lower than the peak values of
Test setup:	Below 1GHz EUT Turn Table Ground I	e 0.8m	4m			s	



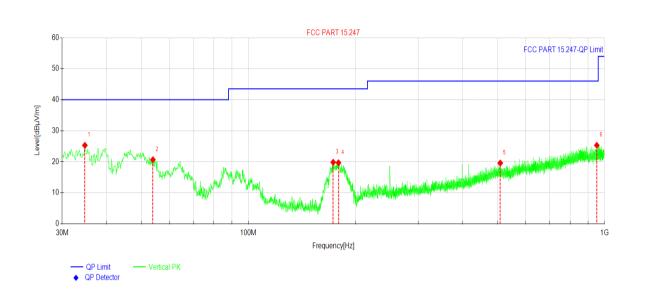




Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.	Freq.√ [MHz]∂	Reading[d BµV/m]∉	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity
1₽	34.7535₽	40.36₽	25.29₽	-15.07₽	40.00₽	14.71₽	PK₽	Vertical∉
2₽	53.9614₽	35.29₽	20.66₽	-14.63₽	40.00₽	19.34₽	PK₽	Vertical∉
3₽	173.089	36.82₽	19.83₽	-16.99₽	43.50₽	23.67₽	PK₽	Vertical₽
4 ₽	179.103	36.47₽	19.67₽	-16.80₽	43.50₽	23.83₽	PK₽	Vertical₽
5₽	509.810	26.44₽	19.58₽	-6.86₽	46.00₽	26.42₽	PK₽	Vertical∉
6₽	951.495	26.28₽	25.31₽	-0.97₽	46.00₽	20.69₽	PK₽	Vertical₽

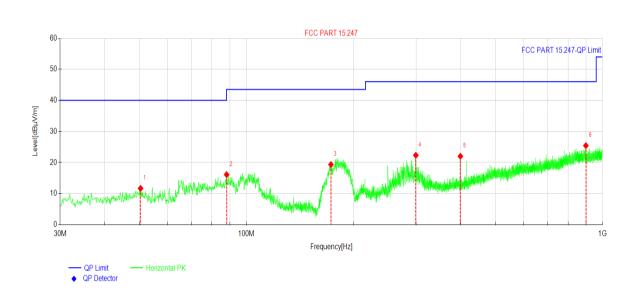
Remark.

- 1. Final Level = Receiver Read level + 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.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

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Product Name:	Mobile Phone	Product Model:	BD2d
Test By:	Janet	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.⊌ [MHz]₽	Reading[d BµV/m]∂	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity
1₽	50.4690₽	26.36₽	11.66₽	-14.70₽	40.00₽	28.34	PK₽	Horizontal₽
2₽	88.0118₽	33.62₽	16.11₽	-17.51₽	43.50₽	27.39₽	PK₽	Horizontal₽
3₽	172.798	36.34₽	19.35₽	-16.99₽	43.50₽	24.15₽	PK₽	Horizontal₽
4₽	299.201	35.04₽	22.32₽	-12.72₽	46.00₽	23.68₽	PK₽	Horizontal₽
5₽	399.024	32.49₽	22.01₽	-10.48₽	46.00₽	23.99₽	PK₽	Horizontal₽
6₽	898.139	26.80₽	25.43₽	-1.37₽	46.00₽	20.57₽	PK₽	Horizontal₽

Remark:

- 1. Final Level = Receiver Read level + 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.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

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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	54.41	-9.46	44.95	74.00	29.05	Vertical
4824.00	53.93	-9.46	44.47	74.00	29.53	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	46.71	-9.46	37.25	54.00	16.75	Vertical
4824.00	47.15	-9.46	37.69	54.00	16.31	Horizontal
		Test ch	annel: Middle ch	nannel		
		Det	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	54.28	-9.11	45.17	74.00	28.83	Vertical
4874.00	54.27	-9.11	45.16	74.00	28.84	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	46.21	-9.11	37.10	54.00	16.90	Vertical
4874.00	47.59	-9.11	38.48	54.00	15.52	Horizontal
		Test cha	annel: Highest cl	hannel		
		Det	tector: Peak Valu	ıe		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	54.55	-8.74	45.81	74.00	28.19	Vertical
4924.00	53.67	-8.74	44.93	74.00	29.07	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	46.51	-8.74	37.77	54.00	16.23	Vertical
	47.38	-8.74	38.64	54.00	15.36	Horizontal

Remark:

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^{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 channel: Lowest channel									
		De	tector: Peak Valu	ie						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4824.00	54.67	-9.46	45.21	74.00	28.79	Vertical				
4824.00	54.37	-9.46	44.91	74.00	29.09	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	47.10	-9.46	37.64	54.00	16.36	Vertical				
4824.00	47.47	-9.46	38.01	54.00	15.99	Horizontal				

Test channel: Middle channel							
Detector: Peak Value							
Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
54.65	-9.11	45.54	74.00	28.46	Vertical		
53.74	-9.11	44.63	74.00	29.37	Horizontal		
Detector: Average Value							
Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
46.92	-9.11	37.81	54.00	16.19	Vertical		
47.03	-9.11	37.92	54.00	16.08	Horizontal		
	(dBuV) 54.65 53.74 Read Level (dBuV) 46.92	Read Level (dBuV) Factor(dB) 54.65 -9.11 53.74 -9.11 Dete Read Level (dBuV) Factor(dB) 46.92 -9.11	Detector: Peak Value Read Level (dBuV) Factor(dB) Level (dBuV/m) 54.65 -9.11 45.54 53.74 -9.11 44.63 Detector: Average Value Read Level (dBuV) Factor(dB) Level (dBuV/m) 46.92 -9.11 37.81	Detector: Peak Value Read Level (dBuV) Factor(dB) Level (dBuV/m) Limit Line (dBuV/m) 54.65 -9.11 45.54 74.00 53.74 -9.11 44.63 74.00 Detector: Average Value Read Level (dBuV) Level (dBuV/m) (dBuV/m) Limit Line (dBuV/m) 46.92 -9.11 37.81 54.00	Detector: Peak Value Read Level (dBuV) Factor(dB) Level (dBuV/m) (dBuV/m) (dBuV/m) (dB) 54.65 -9.11 45.54 74.00 28.46 53.74 -9.11 44.63 74.00 29.37 Detector: Average Value Read Level (dBuV) Factor(dB) Level (dBuV/m) (dBuV/m) (dB) 46.92 -9.11 37.81 54.00 16.19		

Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4924.00	54.23	-8.74	45.49	74.00	28.51	Vertical		
4924.00	53.50	-8.74	44.76	74.00	29.24	Horizontal		
	Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4924.00	46.75	-8.74	38.01	54.00	15.99	Vertical		
4924.00	47.51	-8.74	38.77	54.00	15.23	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)					
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4824.00	54.31	-9.46	44.85	74.00	29.15	Vertical		
4824.00	54.07	-9.46	44.61	74.00	29.39	Horizontal		
		Dete	ctor: Average Va	lue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4824.00	46.95	-9.46	37.49	54.00	16.51	Vertical		
4824.00	47.11	-9.46	37.65	54.00	16.35	Horizontal		
	Test channel: Middle channel							
		Det	tector: Peak Valu	ıe				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4874.00	54.72	-9.11	45.61	74.00	28.39	Vertical		
4874.00	54.12	-9.11	45.01	74.00	28.99	Horizontal		
		Dete	ctor: Average Va	lue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4874.00	46.98	-9.11	37.87	54.00	16.13	Vertical		
4874.00	46.88	-9.11	37.77	54.00	16.23	Horizontal		
	Test channel: Highest channel							
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4924.00	54.27	-8.74	45.53	74.00	28.47	Vertical		
4924.00	54.41	-8.74	45.67	74.00	28.33	Horizontal		
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4924.00	47.15	-8.74	38.41	54.00	15.59	Vertical		
4924.00	46.87	-8.74	38.13	54.00	15.87	Horizontal		

Remark

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^{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.





			802.11n(HT40)					
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4844.00	54.22	-9.32	44.90	74.00	29.10	Vertical		
4844.00	53.57	-9.32	44.25	74.00	29.75	Horizontal		
		Dete	ctor: Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4844.00	46.53	-9.32	37.21	54.00	16.79	Vertical		
4844.00	46.73	-9.32	37.41	54.00	16.59	Horizontal		
		-	1.84:111					
			annel: Middle ch					
_	1 5	De	tector: Peak Valu			1		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4874.00	54.71	-9.11	45.60	74.00	28.40	Vertical		
4874.00	53.44	-9.11	44.33	74.00	29.67	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	46.97	-9.11	37.86	54.00	16.14	Vertical		
4874.00	46.25	-9.11	37.14	54.00	16.86	Horizontal		
		Test cha	annel: Highest c	hannel				
		De	tector: Peak Valu	ue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4904.00	54.89	-8.90	45.99	74.00	28.01	Vertical		
4904.00	52.94	-8.90	44.04	74.00	29.96	Horizontal		
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4904.00	46.84	-8.90	37.94	54.00	16.06	Vertical		
4904.00 Remark:	46.33	-8.90	37.43	54.00	16.57	Horizontal		

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

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