

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102444

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.: KG5j

Trade mark: TECNO

FCC ID: 2ADYY-KG5J

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

Date of sample receipt: 05 Nov., 2021

Date of Test: 06 Nov., to 25 Nov., 2021

Date of report issued: 06 Dec., 2021

Test Result: PASS*

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





2 Version

Version No.	Date	Description
00	26 Nov., 2021	Original
01	06 Dec., 2021	1. Updated test data on page 41.

Tested by:	Test Engir		Date:	06 Dec., 2021	
	Janet	Wei			

Reviewed by: Date: 06 Dec., 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

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366 Page 4 of 43





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.:	KG5j
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:	Direct Sequence Spread Spectrum (DSSS)
(IEEE 802.11b)	
Modulation technology:	Orthogonal Frequency Division Multiplexing(OFDM)
(IEEE 802.11g/802.11n)	
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.2 dBi
Power supply:	Rechargeable Li-ion Polymer Battery DC3.85V,4900mAh
AC adapter:	Model: U100TSA
	Input: AC100-240V, 50/60Hz, 0.3A
	Output: DC 5.0V, 2A
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.



5.3 Test environment and mode and test samples plans

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		

Test Samples Plans:

Samples Number	Used for Test Items
3#	Conducted Emission
1#	Radiated Emission
4#	EUT constructional details

Remark: Jian Yan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

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

JianYan Testing Group Shenzhen Co., Ltd.

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.





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
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022
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	
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: 10.50.40		0

Conducted Emission:								
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
EMI Test Receiver	Rohde & Schwarz	ESCI 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					

Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.





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	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)
Standard reduitement.	FCC Fait 13 C Section 13.203/247(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 1.2dBi.

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6.2 Conducted Emission

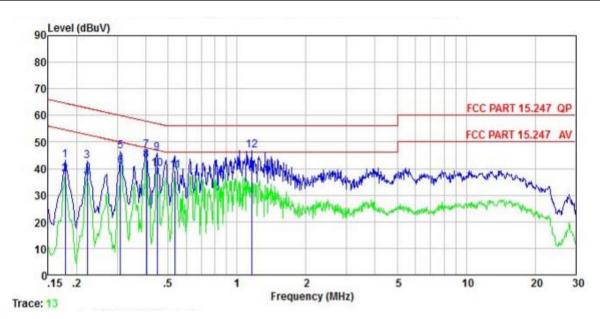
Test Requirement:	FCC Part 15 C Section 15.2	207					
Test Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz					
Class / Severity:	Class B	Class B					
Receiver setup:	RBW=9 kHz, VBW=30 kHz						
Limit:	Fraguenov rango (MHz)	Eroguenov rango (MHz) Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	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:	KG5j
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%



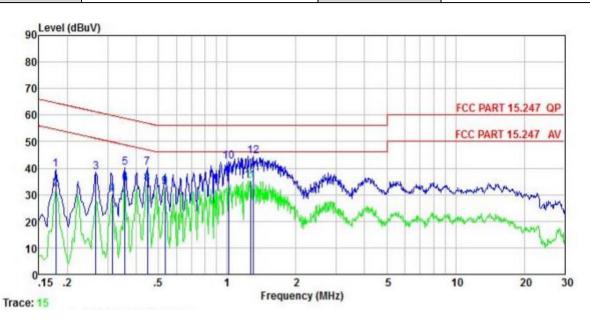
CWGIN	Freq	Read Level		Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBuV	dB	dB	dB	dBu∀	dBuV	dB	
1	0.178	32.91	10.23	-0.12	0.01	43.03	64.59	-21.56	QP
2	0.178	27.79	10.23	-0.12	0.01	37.91	54.59	-16.68	Average
3	0.222	32.82	10.24	-0.19	0.03	42.90	62.74	-19.84	QP
1 2 3 4 5 6 7 8 9	0.222	26.29	10.24	-0.19	0.03	36.37	52.74	-16.37	Average
5	0.310	36.46	10.26	-0.18	0.03	46.57	59.97	-13.40	QP
6	0.310	30.73	10.26	-0.18	0.03	40.84	49.97	-9.13	Average
7	0.402	36.10	10.28	0.42	0.04	46.84	57.81	-10.97	QP
8	0.402	32.54	10.28	0.42	0.04	43.28	47.81	-4.53	Average
9	0.447	35.57	10.28	0.05	0.03	45.93	56.93	-11.00	QP
10	0.447	29.36	10.28	0.05	0.03	39.72	46.93	-7.21	Average
11	0.538	29.29	10.29	-0.36	0.03	39.25	46.00	-6.75	Average
12	1.160	36.17	10.32	0.29	0.08	46.86	56.00		

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:	KG5j
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∀	dB	<u>dB</u>	<u>dB</u>	dBu₹	dBu∜	dB	
1	0.178	29.18	10.21	0.00	0.01	39.40	64.59	-25.19	QP
2	0.178	22.03	10.21	0.00	0.01	32.25	54.59	-22.34	Average
3	0.266	28.13	10.24	0.01	0.02	38.40	61.25	-22.85	QP
1 2 3 4 5 6 7 8 9	0.313	19.88	10.25	0.00	0.03	30.16	49.88	-19.72	Average
5	0.358	29.83	10.26	-0.03	0.02	40.08	58.78	-18.70	QP
6	0.358	23.83	10.26	-0.03	0.02	34.08	48.78	-14.70	Average
7	0.447	29.89	10.27	-0.02	0.03	40.17	56.93	-16.76	QP
8	0.447	23.78	10.27	-0.02	0.03	34.06	46.93	-12.87	Average
9	0.535	22.45	10.28	0.03	0.03	32.79	46.00	-13.21	Average
10	1.016	31.94	10.31	0.08	0.05	42.38	56.00	-13.62	QP
11	1.262	24.72	10.31	0.11	0.10	35.24	46.00	-10.76	Average
12	1.303	33.93	10.31	0.11	0.11	44.46	56.00	-11.54	QP

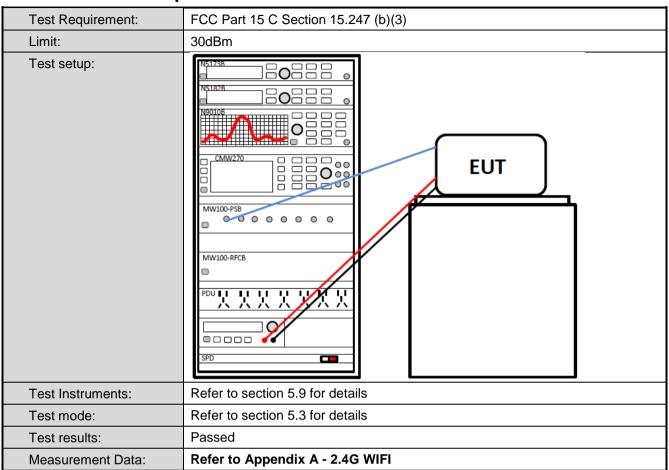
Notes:

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

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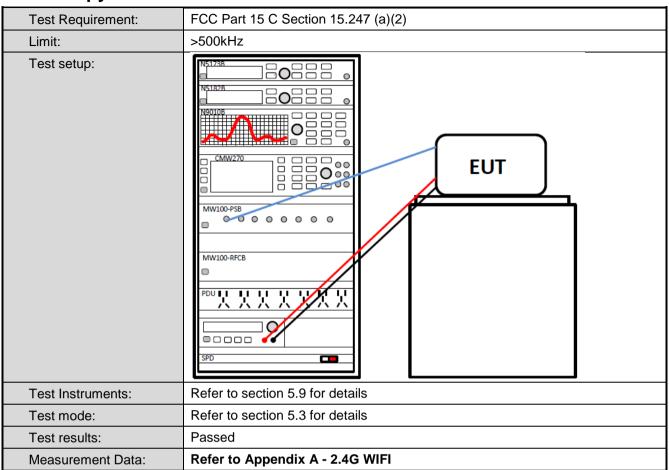


6.3 Conducted Output Power



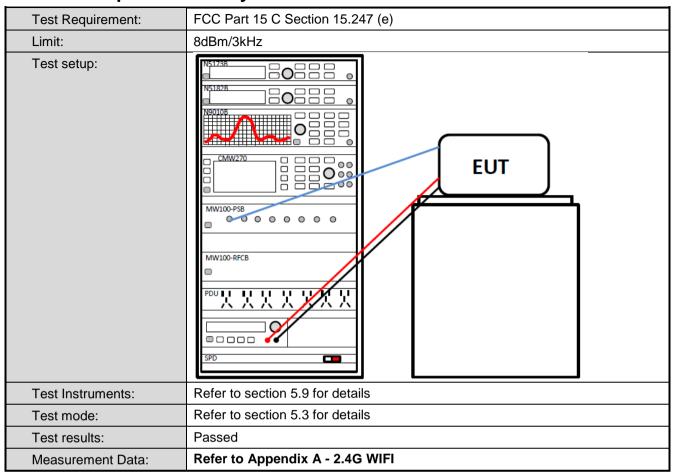


6.4 Occupy Bandwidth





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:	NS182B NS18B NS18B				
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				



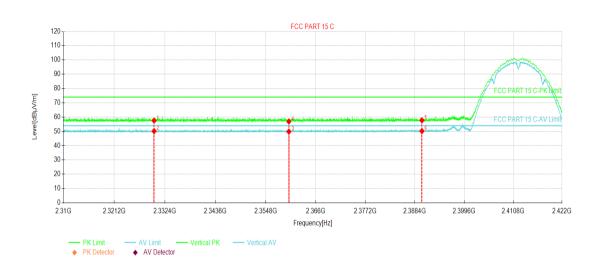
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Se	FCC Part 15 C Section 15.209 and 15.205							
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW		Remark			
	Above 1GHz	Peak	1MHz	3MH		Peak Value			
111	Frequency	RMS	1MHz nit (dBuV/m @	3MH		verage Value mark			
Limit:			54.00	3111)		ge Value			
	Above 1GH	z 📉	74.00			k Value			
Test setup:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 								
Test setup:	- 150cm	AE EUT (Turntable)	Ground Reference Plane		enna Tower				
Test Instruments:	Refer to section 5	.9 for details							
Test mode:	Refer to section 5	.3 for details							
Test results:	Passed								



802.11b mode:

Product Name:	Mobile Phone	Product Model:	KG5j
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.∉ [MHz]∂	Reading⊬ [dBµV/m]∂	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]∉	Trace₽	Polarity₽	₽J
1₽	2330.00	22.13₽	57.54₽	35.41₽	74.00₽	16.46₽	PK₽	Vertical₽	₽J
24□	2330.00	14.74₽	50.15₽	35.41₽	54.00₽	3.85₽	AV₽	Vertical₽	ø
34□	2360.00	14.21₽	49.84₽	35.63₽	54.00₽	4.16₽	AV₽	Vertical₽	ø
4 42	2360.00	21.28₽	56.91₽	35.63₽	74.00₽	17.09₽	PK₽	Vertical∉	ø
54□	2390.00	21.88₽	57.72₽	35.84₽	74.00₽	16.28₽	PK₽	Vertical₽	ø
64□	2390.00	14.35₽	50.19₽	35.84₽	54.00₽	3.81₽	AV₄⋾	Vertical₽	٦

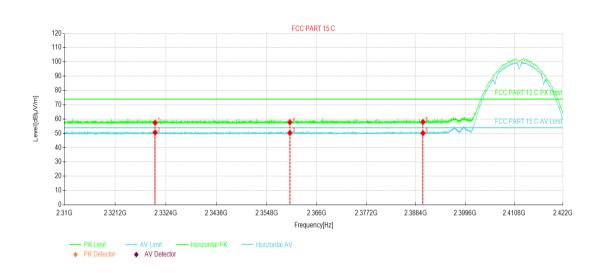
Remark:

- 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.

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



Product Name:	Mobile Phone	Product Model:	KG5j
Test By:	Janet	Test mode:	802.11b 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₽	2330.00	22.01₽	57.42₽	35.41₽	74.00₽	16.58₽	PK₽	Horizontal₽₽
24□	2330.00	15.22₽	50.63₽	35.41₽	54.00₽	3.37₽	AV₽	Horizontal₽₽
3₽	2360.00	14.68₽	50.31₽	35.63₽	54.00₽	3.69₽	AV₽	Horizontal₽₽
4.₽	2360.00	22.16₽	57.79₽	35.63₽	74.00₽	16.21₽	PK₽	Horizontal₽₽
5⇔	2390.00	22.07₽	57.91₽	35.84₽	74.00₽	16.09₽	PK₽	Horizontal₽₽
64□	2390.00	14.32₽	50.16₽	35.84₽	54.00₽	3.84₽	AV₽	Horizontal₽₽

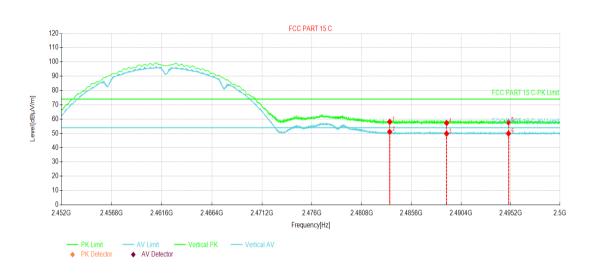
Remark:

- 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:	KG5j
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.⊬ [MHz]∂	Reading⊬ [dBµV/m]∂	Level√ [dBµV/m]√	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]∉	Trace₽	Polarity∂
1₽	2483.50	22.33₽	58.05₽	35.72₽	74.00₽	15.95₽	PK₽	Vertical₽
2↔	2483.50	15.38₽	51.10₽	35.72₽	54.00₽	2.90₽	AV₽	Vertical₽
3₽	2489.00	14.08₽	49.79₽	35.71₽	54.00₽	4.21₽	AV₽	Vertical₽
4↔	2489.00	21.54₽	57.25₽	35.71₽	74.00₽	16.75₽	PK₽	Vertical₽
5↔	2495.00	21.99₽	57.68₽	35.69₽	74.00₽	16.32₽	PK₽	Vertical₽
6€	2495.00	14.19₽	49.88₽	35.69₽	54.00₽	4.12₽	AV₄⋾	Vertical₽

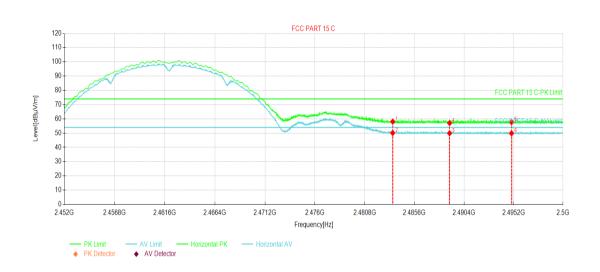
Remark

- 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.

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Product Name:	Mobile Phone	Product Model:	KG5j
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	22.36₽	58.08₽	35.72₽	74.00₽	15.92₽	PK₽	Horizontal₽₽
2₽	2483.50	14.42₽	50.14₽	35.72₽	54.00₽	3.86₽	AV₽	Horizontal₽₽
3₽	2489.00	14.19₽	49.90₽	35.71₽	54.00₽	4.10₽	AV₽	Horizontal₽₽
4₽	2489.00	21.35₽	57.06₽	35.71₽	74.00₽	16.94₽	PK₽	Horizontal₽₽
5↩	2495.00	22.01₽	57.70₽	35.69₽	74.00₽	16.30₽	PK₽	Horizontal₽₽
64□	2495.00	14.18₽	49.87₽	35.69₽	54.00₽	4.13₽	AV₽	Horizontal₽₽

Remark:

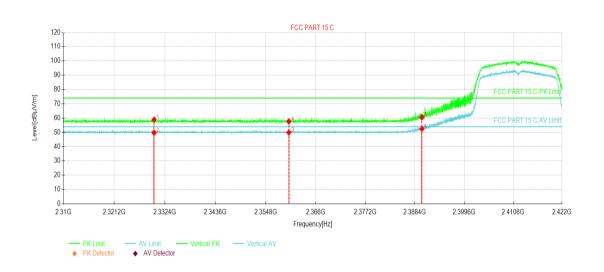
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



802.11g mode:

Product Name:	Mobile Phone	Product Model:	KG5j		
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%		



•									4
NO.₽	Freq.⊌	Reading∉	Level⊬	Factor⊎	Limit₽	Margin⊌	Trace₽	Polarity∂	₽
NO.	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]₽	[dBµV/m]∂	[dB]₽	Hace	1 Glanty	
1₽	2330.00	23.47₽	58.88₽	35.41₽	74.00₽	15.12₽	PK₽	Vertical₽	Ç
2↩	2330.00	14.34₽	49.75₽	35.41₽	54.00₽	4.25₽	AV₽	Vertical₽	Ç
3⇔	2360.00	14.27₽	49.90₽	35.63₽	54.00₽	4.10₽	AV₽	Vertical₽	Þ
4 42	2360.00	22.03₽	57.66₽	35.63₽	74.00₽	16.34₽	PK₽	Vertical₽	₽
5⇔	2390.00	24.65₽	60.49₽	35.84₽	74.00₽	13.51₽	PK₽	Vertical₽	₽
6↩	2390.00	16.61₽	52.45₽	35.84₽	54.00₽	1.55₽	AV₽	Vertical₽	ته

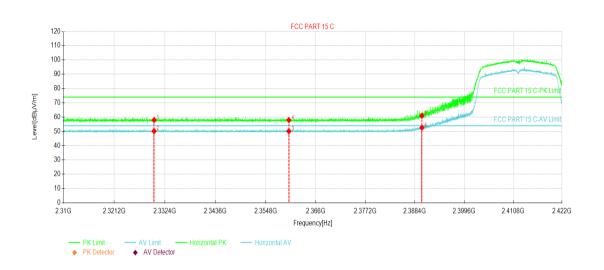
Remark

- 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:	KG5j
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%



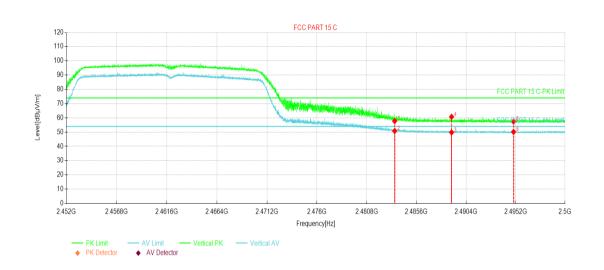
									4
NO.₽	Freq.	Reading⊍	Level⊬	Factor⊎	Limit₽	Margin⊎	Trace₽	Polaritv∉	Þ
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB] <i>₽</i>	[dBµV/m]∂	[dB]∂	Hace	Folanty	
1₽	2330.00	22.52₽	57.93₽	35.41₽	74.00₽	16.07₽	PK₽	Horizontal₽	þ
2↔	2330.00	14.75₽	50.16₽	35.41₽	54.00₽	3.84₽	AV₽	Horizontal₽	Þ
3₽	2360.00	14.46₽	50.09₽	35.63₽	54.00₽	3.91₽	AV₽	Horizontal₽	Þ
4 42	2360.00	22.24₽	57.87₽	35.63₽	74.00₽	16.13₽	PK₽	Horizontal₽	ته
5₊∍	2390.00	25.08₽	60.92₽	35.84₽	74.00₽	13.08₽	PK₽	Horizontal₽	ته
64□	2390.00	16.74₽	52.58₽	35.84₽	54.00₽	1.42₽	AV₽	Horizontal₽	ته

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:	KG5j	
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	22.02₽	57.74₽	35.72₽	74.00₽	16.26₽	PK₽	Vertical₽
24□	2483.50	15.07₽	50.79₽	35.72₽	54.00₽	3.21₽	AV₽	Vertical₽
3₽	2489.00	14.10₽	49.81₽	35.71₽	54.00₽	4.19₽	AV₽	Vertical₽
4.₽	2489.00	25.01₽	60.72₽	35.71₽	74.00₽	13.28₽	PK₽	Vertical₽
5⇔	2495.00	21.74₽	57.43₽	35.69₽	74.00₽	16.57₽	PK₽	Vertical₽
64□	2495.00	14.46₽	50.15₽	35.69₽	54.00₽	3.85₽	AV₽	Vertical₽

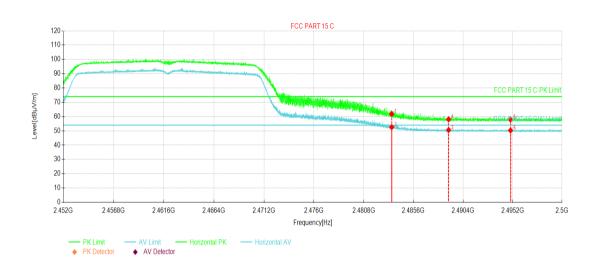
Remark

- 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:	KG5j
Test By:	Janet	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
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	26.13₽	61.85₽	35.72₽	74.00₽	12.15₽	PK₽	Horizontal₽₽
2₽	2483.50	16.88₽	52.60₽	35.72₽	54.00₽	1.40₽	AV₽	Horizontal₽₽
3₽	2489.00	14.89₽	50.60₽	35.71₽	54.00₽	3.40₽	AV₽	Horizontal₽₽
4₽	2489.00	22.41₽	58.12₽	35.71₽	74.00₽	15.88₽	PK₽	Horizontal₽₽
5₊□	2495.00	22.19₽	57.88₽	35.69₽	74.00₽	16.12₽	PK₽	Horizontal₽₽
6↩	2495.00	14.63₽	50.32₽	35.69₽	54.00₽	3.68₽	AV₽	Horizontal₽

Remark:

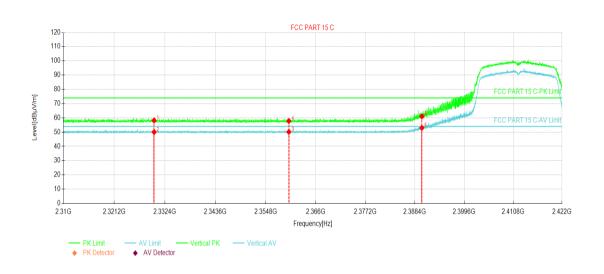
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT20):

Product Name:	Mobile Phone	Product Model:	KG5j
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%



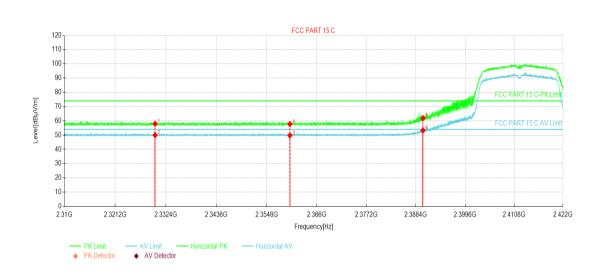
NO.₽	Freq.⊎ [MHz]∂	Reading√ [dBµV/m]√	Level⊬ [dBµV/m]∉	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]∉	Trace∂	Polarity₽	÷
1₽	2330.00	22.81₽	58.22₽	35.41₽	74.00₽	15.78₽	PK₽	Vertical₽	÷
24□	2330.00	14.64₽	50.05₽	35.41₽	54.00₽	3.95₽	AV₽	Vertical₽	÷
3⇔	2360.00	14.55₽	50.18₽	35.63₽	54.00₽	3.82₽	AV₽	Vertical₽	÷
4 42	2360.00	22.17₽	57.80₽	35.63₽	74.00₽	16.20₽	PK₽	Vertical₽	÷
54□	2390.00	25.21₽	61.05₽	35.84₽	74.00₽	12.95₽	PK₽	Vertical₽	÷
64□	2390.00	17.19₽	53.03₽	35.84₽	54.00₽	0.97₽	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.



Product Name:	Mobile Phone	Product Model:	KG5j
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₽	2330.00	22.54₽	57.95₽	35.41₽	74.00₽	16.05₽	PK₽	Horizontal₽₽
2↩	2330.00	14.56₽	49.97₽	35.41₽	54.00₽	4.03₽	AV₽	Horizontal₽₽
3₽	2360.00	14.13₽	49.76₽	35.63₽	54.00₽	4.24₽	AV₽	Horizontal₽₽
4.₽	2360.00	22.12₽	57.75₽	35.63₽	74.00₽	16.25₽	PK₽	Horizontal₽₽
5↩	2390.00	26.04₽	61.88₽	35.84₽	74.00₽	12.12₽	PK₽	Horizontal₽₽
6₽	2390.00	17.53₽	53.37₽	35.84₽	54.00₽	0.63₽	AV∢⊃	Horizontal₽₽

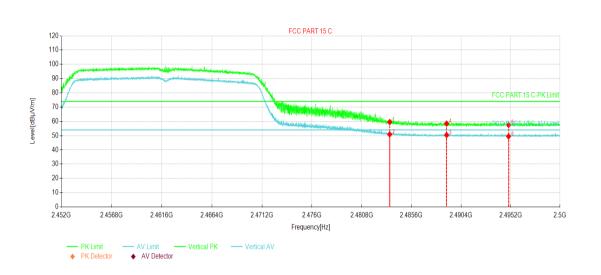
Remark

- 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:	KG5j
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%



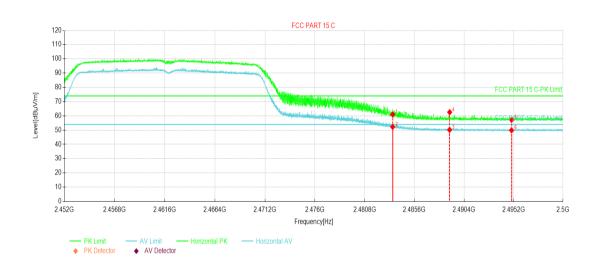
NO.₽	Freq.√ [MHz]∂	Reading⊬ [dBµV/m]⊮	Level√ [dBµV/m]√	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]∉	Trace₽	Polarity∂	٥
1₽	2483.50	23.80₽	59.52₽	35.72₽	74.00₽	14.48₽	PK₽	Vertical₽	₽
2↔	2483.50	15.15₽	50.87₽	35.72₽	54.00₽	3.13₽	AV₽	Vertical₽	ته
3₽	2489.00	14.67₽	50.38₽	35.71₽	54.00₽	3.62₽	AV₽	Vertical₽	ته
4₽	2489.00	22.72₽	58.43₽	35.71₽	74.00₽	15.57₽	PK₽	Vertical₽	٦
5↔	2495.00	21.81₽	57.50₽	35.69₽	74.00₽	16.50₽	PK₽	Vertical₽	ته
6₽	2495.00	13.79₽	49.48₽	35.69₽	54.00₽	4.52₽	AV₽	Vertical₽	ø

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:	KG5j
Test By:	Janet	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
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	25.29₽	61.01₽	35.72₽	74.00₽	12.99₽	PK₽	Horizontal₽
2↔	2483.50	16.57₽	52.29₽	35.72₽	54.00₽	1.71₽	AV₽	Horizontal₽
3₽	2489.00	14.49₽	50.20₽	35.71₽	54.00₽	3.80₽	AV₽	Horizontal₽
4.₽	2489.00	26.87₽	62.58₽	35.71₽	74.00₽	11.42₽	PK₽	Horizontal₽
5₽	2495.00	21.52₽	57.21₽	35.69₽	74.00₽	16.79₽	PK₽	Horizontal₽
6↩	2495.00	14.19₽	49.88₽	35.69₽	54.00₽	4.12₽	AV₄⋾	Horizontal₽

Remark:

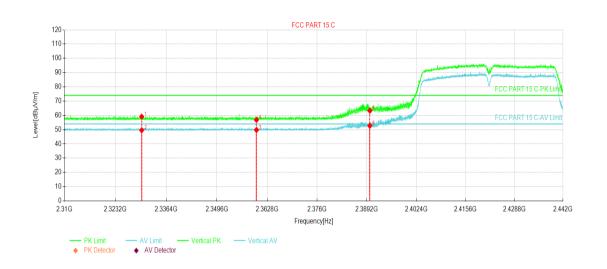
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT40):

Product Name:	Mobile Phone	Product Model:	KG5j
Test By:	Janet	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

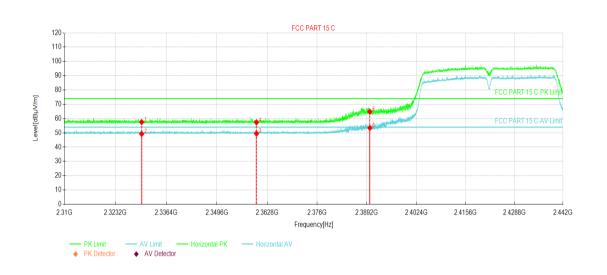


NO1	Freq [MHz].	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace₽	Polarity.
1₽	2330.00	23.66₽	59.07₽	35.41₽	74.00₽	14.93₽	PK₽	Vertical₽
24⁻	2330.00	14.18₽	49.59₽	35.41₽	54.00₽	4.41₽	AV₽	Vertical₽
34□	2360.00	14.15₽	49.78₽	35.63₽	54.00₽	4.22₽	AV₽	Vertical₽
44⊃	2360.00	21.20₽	56.83₽	35.63₽	74.00₽	17.17₽	PK₽	Vertical₽
54□	2390.00	27.44₽	63.28₽	35.84₽	74.00₽	10.72₽	PK₽	Vertical₽
64□	2390.00	16.88₽	52.72₽	35.84₽	54.00₽	1.28₽	AV₽	Vertical₽

- 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.



Product Name:	Mobile Phone	Product Model:	KG5j
Test By:	Janet	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



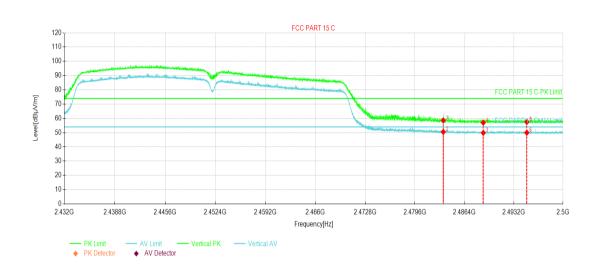
NO.₽	Freq.⊌	Reading⊍	Level⊬	Factor⊍	Limit⊬	Margin⊍	Trace₽	Polarity∂
	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]₽	[dBµV/m]₽	[dB]∂		. Clairly
1₽	2330.00	22.13₽	57.54₽	35.41₽	74.00₽	16.46₽	PK₽	Horizontal₽
2↔	2330.00	13.89₽	49.30₽	35.41₽	54.00₽	4.70₽	AV₽	Horizontal₽
3₽	2360.00	13.90₽	49.53₽	35.63₽	54.00₽	4.47₽	AV₽	Horizontal₽
4 4 ³	2360.00	21.71₽	57.34₽	35.63₽	74.00₽	16.66₽	PK₽	Horizontal₽
5⇔	2390.00	28.91₽	64.75₽	35.84₽	74.00₽	9.25₽	PK₽	Horizontal₽
64□	2390.00	17.62₽	53.46₽	35.84₽	54.00₽	0.54₽	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:	KG5j	
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%	



NO1	Freq [MHz].	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace₽	Polarity.	Þ
1₽	2483.50	22.85₽	58.57₽	35.72₽	74.00₽	15.43₽	PK₽	Vertical₽	₽
2↔	2483.50	14.80₽	50.52₽	35.72₽	54.00₽	3.48₽	AV₄⊃	Vertical₽	₽
3⇔	2489.00	14.12₽	49.83₽	35.71₽	54.00₽	4.17₽	AV₄⊃	Vertical₽	₽
44⊃	2489.00	21.27₽	56.98₽	35.71₽	74.00₽	17.02₽	PK₽	Vertical₽	₽
54□	2495.00	21.76₽	57.45₽	35.69₽	74.00₽	16.55₽	PK₽	Vertical₽	₽
64□	2495.00	14.24₽	49.93₽	35.69₽	54.00₽	4.07₽	AV₄⊃	Vertical∉	₽J

Remark:

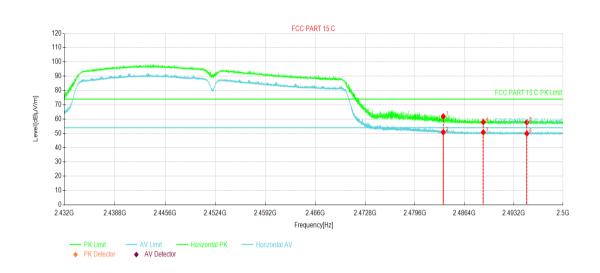
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Project No.: JYTSZE2111024



Product Name:	Mobile Phone	Product Model:	KG5j
Test By:	Janet	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO	Freq [MHz].	Reading. [dBuV/m].	Level [dBuV/m]	Factor.a [dB].a	Limit. [dBuV/m].	Margin.a [dB].a	Trace₽	Polarity.
1₽	2483.50	26.14₽	61.86₽	35.72₽	74.00₽	12.14₽	PK₽	Horizontal₽
2∻	2483.50	15.04₽	50.76₽	35.72₽	54.00₽	3.24₽	AV₄⊃	Horizontal₽
34□	2489.00	15.04₽	50.75₽	35.71₽	54.00₽	3.25₽	AV₄⊃	Horizontal₽
44⊃	2489.00	22.17₽	57.88₽	35.71₽	74.00₽	16.12₽	PK₽	Horizontalℯ
54□	2495.00	22.01₽	57.70₽	35.69₽	74.00₽	16.30₽	PK₽	Horizontal₽
64⁻	2495.00	14.18₽	49.87₽	35.69₽	54.00₽	4.13₽	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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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:	NS11278 NS1127				
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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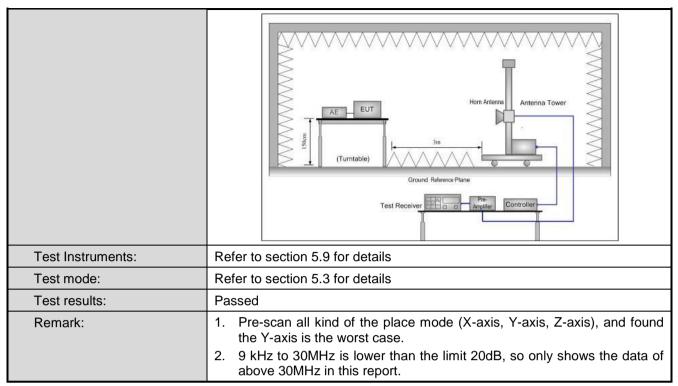


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Se	ction 15.	209 an	d 15.205			
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency	Detec	tor	RBW	V	BW	Remark
·	30MHz-1GHz	Quasi-	oeak	120KHz	300KHz		Quasi-peak Value
	Above 1GHz	Pea	k	1MHz	31	ИHz	Peak Value
		RMS		1MHz		ИНZ	Average Value
Limit:	Frequency		Limi	t (dBuV/m @3i	m)		Remark
	30MHz-88MH			40.0			uasi-peak Value
							uasi-peak Value
	216MHz-960M			46.0			uasi-peak Value
	960MHz-1GH	Z		54.0			uasi-peak Value
	Above 1GHz	<u>.</u>		54.0 74.0		,	Average Value Peak Value
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or 						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 that did not have
Test setup:	Below 1GHz EUT Turn Table Ground I	0.8m	4m			s	

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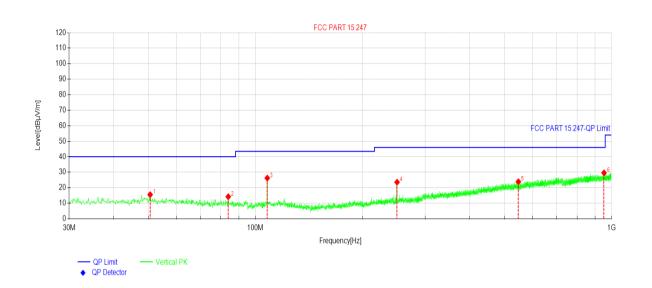




Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	KG5j
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%



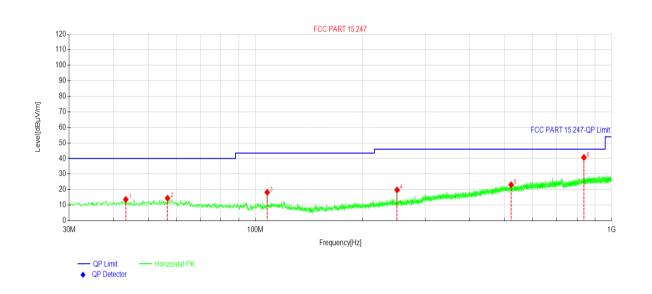
Suspe	Suspected Data List∂									
NO.₽	Freq.⊌ [MHz]∂	Reading[d BµV/m]⊬	Level⊬ [dBµV/m]∂	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace	Polarity₽		
1₽	50.6631₽	30.23₽	15.53₽	-14.70₽	40.00₽	24.47₽	PK₽	Vertical₽ *		
2₽	83.9374	31.67₽	14.21₽	-17.46₽	40.00₽	25.79₽	PK₽	Vertical₽ *		
3₽	107.995	42.17₽	26.23₽	-15.94₽	43.50₽	17.27₽	PK₽	Vertical₽ *		
4 0	250.018	37.38₽	23.59₽	-13.79₽	46.00₽	22.41₽	PK₽	Vertical₽ *		
5₽	547.643	30.74₽	23.87₽	-6.87₽	46.00₽	22.13₽	PK₽	Vertical₽ *		
6₽	952.853	30.55₽	29.60₽	-0.95₽	46.00₽	16.40₽	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.



Product Name:	Mobile Phone	Product Model:	KG5j
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%



Suspe	Suspected Data List										
NO.₽	Freq.⊬ [MHz]∂	Reading[d BµV/m]∂	Level⊬ [dBµV/m]∂	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace∂	Polarity			
1₽	43.2903₽	28.47₽	13.63₽	-14.84₽	40.00₽	26.37₽	PK₽	Horizontal₽			
2₽	56.6777₽	29.18₽	14.43₽	-14.75₽	40.00₽	25.57₽	PK₽	Horizontal₽			
3₽	107.995	34.15₽	18.21₽	-15.94₽	43.50₽	25.29₽	PK₽	Horizontal₽			
4₽	250.018	33.56₽	19.77₽	-13.79₽	46.00₽	26.23₽	PK₽	Horizontal₽			
5₽	522.518	29.98₽	23.08₽	-6.90₽	46.00₽	22.92₽	PK₽	Horizontal₽			
6₽	836.732	42.56₽	40.68₽	-1.88₽	46.00₽	5.32₽	PK₽	Horizontal₽			

Remark:

- 4. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 5. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 6. 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 cl	nannel		
		De	tector: Peak Valu	ıe		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	61.06	-9.46	51.60	74.00	22.40	Vertical
4824.00	59.65	-9.46	50.19	74.00	23.81	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	56.61	-9.46	47.15	54.00	6.85	Vertical
4824.00	55.94	-9.46	46.48	54.00	7.52	Horizontal
		Test ch	annel: Middle ch	nannel		
		Det	tector: Peak Valu	re		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	60.70	-9.11	51.59	74.00	22.41	Vertical
4874.00	59.70	-9.11	50.59	74.00	23.41	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	56.95	-9.11	47.84	54.00	6.16	Vertical
4874.00	56.17	-9.11	47.06	54.00	6.94	Horizontal
		Test cha	annel: Highest c	hannel		
		Det	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	60.66	-8.74	51.92	74.00	22.08	Vertical
4924.00	59.24	-8.74	50.50	74.00	23.50	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	57.27	-8.74	48.53	54.00	5.47	Vertical
4924.00	55.92	-8.74	47.18	54.00	6.82	Horizontal
Remark:						

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								
Detector: Peak Value								
Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
60.63	-9.46	51.17	74.00	22.83	Vertical			
58.89	-9.46	49.43	74.00	24.57	Horizontal			
Detector: Average Value								
Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
56.95	-9.46	47.49	54.00	6.51	Vertical			
55.49	-9.46	46.03	54.00	7.97	Horizontal			
	(dBuV) 60.63 58.89 Read Level (dBuV) 56.95	Read Level (dBuV) Factor(dB) 60.63 -9.46 58.89 -9.46 Dete Read Level (dBuV) Factor(dB) 56.95 -9.46	Test channel: Lowest ch Detector: Peak Value Read Level (dBuV) 60.63	Test channel: Lowest channel	Test channel: Lowest channel			

		Test ch	annel: Middle ch	nannel					
		De	tector: Peak Valu	ie					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4874.00	60.19	-9.11	51.08	74.00	22.92	Vertical			
4874.00	58.78	-9.11	49.67	74.00	24.33	Horizontal			
	Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4874.00	56.60	-9.11	47.49	54.00	6.51	Vertical			
4874.00	55.59	-9.11	46.48	54.00	7.52	Horizontal			
1									

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	60.47	-8.74	51.73	74.00	22.27	Vertical			
4924.00	58.47	-8.74	49.73	74.00	24.27	Horizontal			
	Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4924.00	56.69	-8.74	47.95	54.00	6.05	Vertical			
4924.00	55.46	-8.74	46.72	54.00	7.28	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.

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			802.11n(HT20)			
			annel: Lowest ch			
	1	De	tector: Peak Valu		T	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	60.20	-9.46	50.74	74.00	23.26	Vertical
4824.00	59.12	-9.46	49.66	74.00	24.34	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	57.20	-9.46	47.74	54.00	6.26	Vertical
4824.00	55.25	-9.46	45.79	54.00	8.21	Horizontal
		Test ch	annel: Middle ch	annel		
		Det	tector: Peak Valu	ıe		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	60.36	-9.11	51.25	74.00	22.75	Vertical
4874.00	58.44	-9.11	49.33	74.00	24.67	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	56.13	-9.11	47.02	54.00	6.98	Vertical
4874.00	55.75	-9.11	46.64	54.00	7.36	Horizontal
		Test cha	annel: Highest cl	nannel		
		Det	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	59.98	-8.74	51.24	74.00	22.76	Vertical
4924.00	58.30	-8.74	49.56	74.00	24.44	Horizontal
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4024.00	56.30	-8.74	47.56	54.00	6.44	Vertical
4924.00		1	47.03	54.00	6.97	1

^{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)			
		Test ch	annel: Lowest ch	nannel		
		Det	tector: Peak Valu	ıe		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4844.00	60.19	-9.32	50.87	74.00	23.13	Vertical
4844.00	58.96	-9.32	49.64	74.00	24.36	Horizontal
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4844.00	57.39	-9.32	48.07	54.00	5.93	Vertical
4844.00	54.80	-9.32	45.48	54.00	8.52	Horizontal
		Test ch	annel: Middle ch	annel		
		Det	ector: Peak Valu	ıe	1	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	59.83	-9.11	50.72	74.00	23.28	Vertical
4874.00	59.52	-9.11	50.41	74.00	23.59	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	57.26	-9.11	48.15	54.00	5.85	Vertical
4874.00	55.65	-9.11	46.54	54.00	7.46	Horizontal
		Test cha	annel: Highest ch	nannel		
		Det	ector: Peak Valu	ıe	1	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4904.00	59.70	-8.90	50.80	74.00	23.20	Vertical
4904.00	59.04	-8.90	50.14	74.00	23.86	Horizontal
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4904.00	57.22	-8.90	48.32	54.00	5.68	Vertical
4304.00						

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

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