

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100769

FCC REPORT

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.: A571LS

Trade mark: TECNO

FCC ID: 2ADYY-A571LS

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

Date of sample receipt: 10 May, 2021

Date of Test: 11 May, to 22 Jun., 2021

Date of report issued: 23 Jun., 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.

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Version

Version No.	Date	Description
00	23 Jun., 2021	Original

Test Engineer

Winner Thang Tested by: Date: 23 Jun., 2021

Reviewed by: Date: 23 Jun., 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 Pa	
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	45 205 8 45 200	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.:	A571LS				
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)				
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)				
Channel separation:	5MHz				
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)				
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)				
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps				
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps				
Data speed (IEEE 802.11n):	Up to 72.2Mbps				
Antenna Type:	Internal Antenna				
Antenna gain:	-1.0dBi				
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2950mAh				
AC adapter:	Model:A18A-050100U-US2				
	Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1A				
Test Sample Condition:	The test samples were provided in good working order with no visible defects.				

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.



5.3 Test environment and mode

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

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.				
Mode	Data rate			
802.11b	1Mbps			
802.11g	6Mbps			
802.11n(HT20)	6.5Mbps			

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

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 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

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





5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	V	ersion: 6.110919b	
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021
Cable	HP	10503A	N/A	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
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021



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 -1.0 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	150 kHz to 30 MHz						
Class / Severity:	Class B							
Receiver setup:	RBW=9 kHz, VBW=30 kHz							
Limit:	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	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. 							
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							

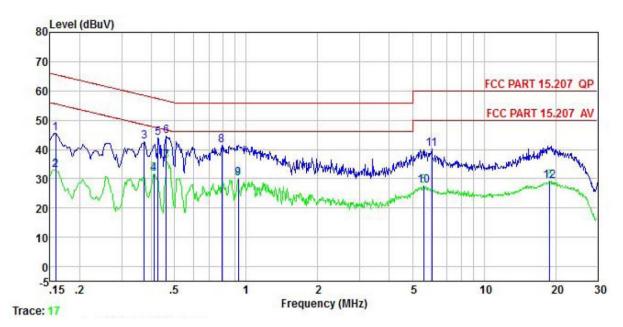
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Measurement Data:

Product name:	Mobile Phone	Product model:	A571LS
Test by:	Yaro	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%



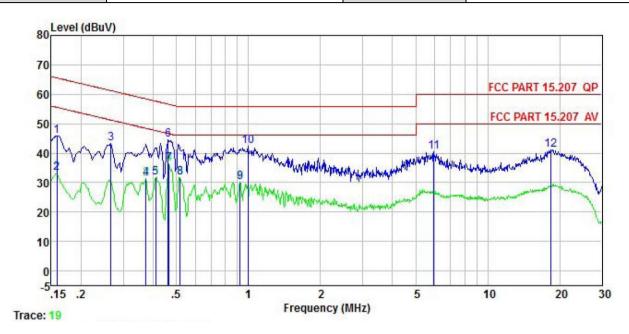
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	dB	₫B	dBu₹	₫₿u₹	<u>dB</u>	
1	0.158	35.53	10.12	-0.07	0.01	45.59	65.56	-19.97	QP
2	0.158	22.97	10.12	-0.07	0.01	33.03	55.56	-22.53	Average
3	0.373	32.20	10.27	0.25	0.03	42.75	58.43	-15.68	QP
1 2 3 4 5 6 7 8 9	0.410	21.08	10.29	0.33	0.04	31.74	47.64	-15.90	Average
5	0.426	33.36	10.30	0.19	0.03	43.88	57.33	-13.45	QP
6	0.461	34.29	10.32	-0.06	0.03	44.58	56.67	-12.09	QP
7	0.461	25.68	10.32	-0.06	0.03	35.97	46.67	-10.70	Average
8	0.792	31.20	10.43	-0.11	0.03	41.55	56.00	-14.45	QP
	0.928	19.42	10.47	0.28	0.04	30.21	46.00	-15.79	Average
10	5.564	16.23	10.68	0.47	0.09	27.47	50.00	-22.53	Average
11	6.024	28.69	10.70	0.76	0.09	40.24	60.00	-19.76	QP
12	18.920	16.49	11.16	1.43	0.15	29.23	50.00	-20.77	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:	A571LS
Test by:	Yaro	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%



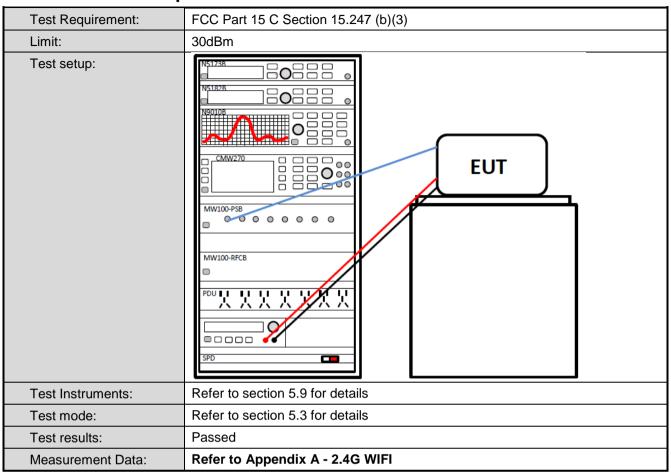
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	₫₿u₹	<u>dB</u>			dBu₹	dBu∜	<u>dB</u>	
1	0.158	36.04	9.90	0.01	0.01	45.96		-19.60	100 To 10
2	0.158	23.23	9.90	0.01	0.01	33.15			Average
3	0.266	33.21	9.98	0.01	0.02	43.22	61.25	-18.03	QP
4	0.373	21.15	10.09	-0.04	0.03	31.23	48.43	-17.20	Average
5	0.410	21.63	10.13	-0.05	0.04	31.75	47.64	-15.89	Average
6	0.461	34.22	10.17	0.00	0.03	44.42	56.67	-12.25	QP
2 3 4 5 6 7 8 9	0.466	26.07	10.18	0.00	0.03	36.28	46.58	-10.30	Average
8	0.518	21.55	10.22	0.03	0.03	31.83			Average
9	0.923	19.37	10.52	0.07	0.04	30.00			Average
10	0.994	31.73	10.56	0.08	0.05	42.42		-13.58	
11	5.961	28.71	11.06	0.76	0.09	40.62		-19.38	
12	18.426	28.38	11.56	1.06	0.15	41.15		-18.85	- 10.75 Co. L 1

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.

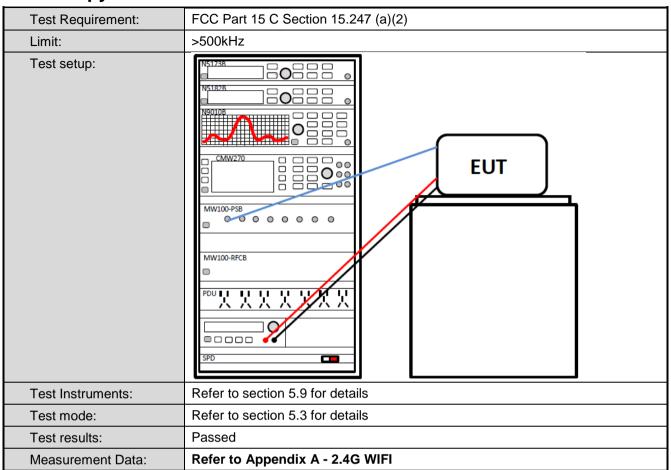


6.3 Conducted Output Power



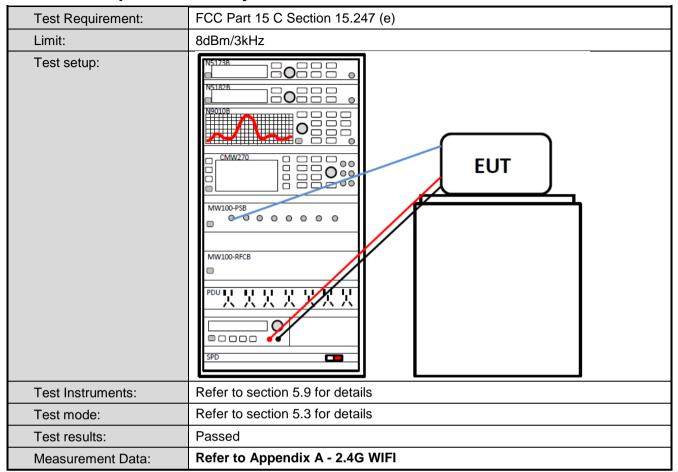


6.4 Occupy Bandwidth





6.5 Power Spectral Density



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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 NS18					
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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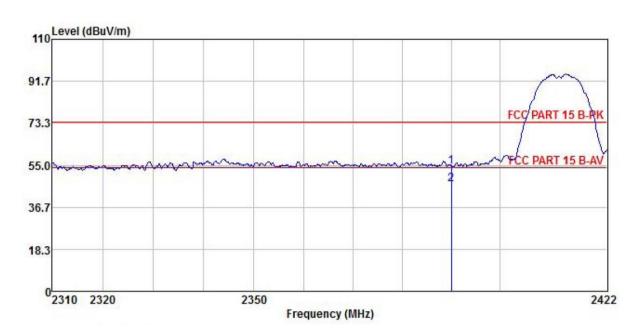
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test Frequency Range:	2310 MHz to 2390	2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz					
Test Distance:	3m						
Receiver setup:	Frequency	Detector	RBW	VBW			
	Above 1GHz	Peak	1MHz	3MHz	+		
Limite	Frequency	RMS	<u> 1MHz </u>	3MHz	z Average Value Remark		
Limit:			54.00	3111)	Average Value		
	Above 1GH		74.00		Peak Value		
Test procedure:	the ground at determine the 2. The EUT was antenna, which tower. 3. The antenna ground to det horizontal and measurement 4. For each sus and then the and the rota to maximum reasonable and the est-recesory Specified Bar 6. If the emission limit specified the EUT wou 10dB margin	t a 3 meter can be position of the position of	amber. The take the highest rades away from the sed from one measurement walue arizations of the stuned to heigh ned from 0 degrees was set to Peal Maximum Holder EUT in peak regional to the stop d. Otherwise the	ole was rolliation. e interfere of a variable eter to four of the fielder antenna was arranged as from 1 arees to 36 k Detect Fill Mode, mode was ped and the emission one using	or meters above the d strength. Both are set to make the ged to its worst case meter to 4 meters 60 degrees to find the function and 10dB lower than the he peak values of ons that did not have peak, quasi-peak or		
Test setup:	- 150cm	AE EUT (Turntable)	Ground Reference Plane		na 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:	A571LS
Test By:	Yaro	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor					Over Limit	
	MHz	dBu∜		dB	<u>dB</u>	dBu√/m	dBuV/m	<u>d</u> B	
1 2	2390.000 2390.000								

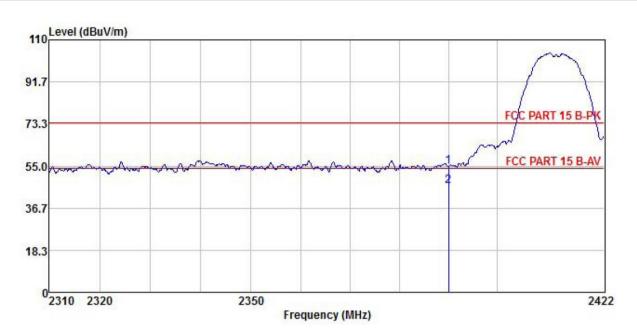
Remark:

- 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:	A571LS
Test By:	Yaro	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Antenna Factor					Over Limit	
	MHz	dBu∜	<u>dB</u> /m		<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	<u>db</u>	
1	2390.000	19.21	27.03	8.73	0.00	54.97	74.00	-19.03	Peak
2	2390.000	10.45	27.03	8.73	0.00	46.21	54.00	-7.79	Average

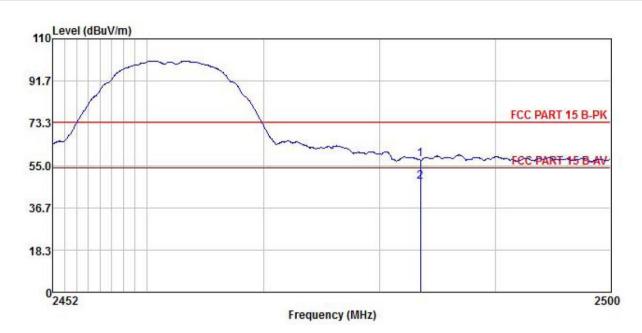
Remark:

- 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:	A571LS
Test By:	Yaro	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor						Remark	
	MHz	dBu∜	dB/m	₫B	₫B	dBuV/m	dBuV/m	₫B		-
1 2	2483.500 2483.500									

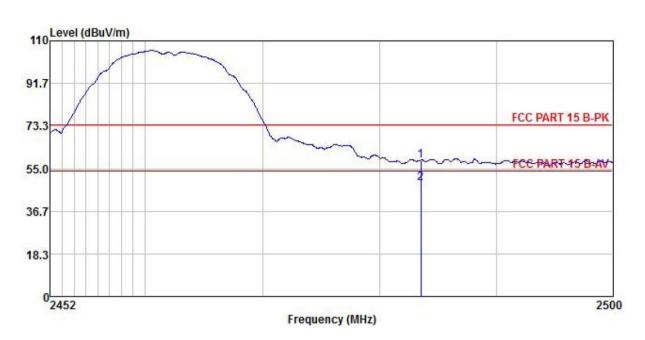
Remark

- 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:	A571LS		
Test By:	Yaro	Test mode:	802.11b Tx mode		
Test Channel:	annel: Highest channel Polarization:		Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq		Antenna Factor						
	MHz	dBu∇	<u>dB</u> /m	<u>ab</u>		$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1 2	2483.500 2483.500				0.00 0.00				

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.

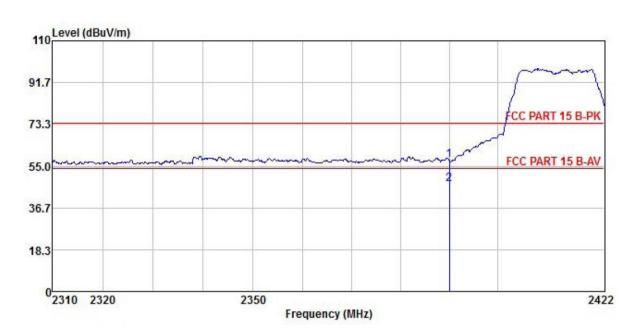
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802.11g mode:

Product Name:	Mobile Phone	Product Model:	A571LS		
Test By:	Yaro	Test mode:	802.11g Tx mode		
Test Channel:	Lowest channel	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



	Freq		Antenna Factor						
	MHz	dBu∀	_dB/m	₫B	₫B	$\overline{dBuV/m}$	dBu√/m	dB	
1 2	2390.000 2390.000								

Remark

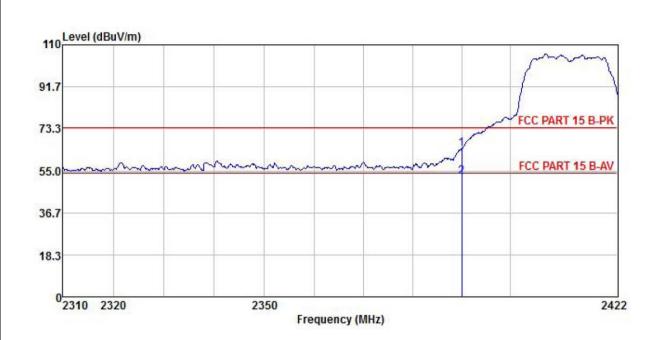
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	A571LS		
Test By:	Yaro	Test mode:	802.11g Tx mode		
Test Channel:	Channel: Lowest channel Polarization:		Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq		Antenna Factor					Over Limit	Remark
	MHz	dBu∇	dB/m	dB	dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$		
1 2	2390.000 2390.000								

Remark:

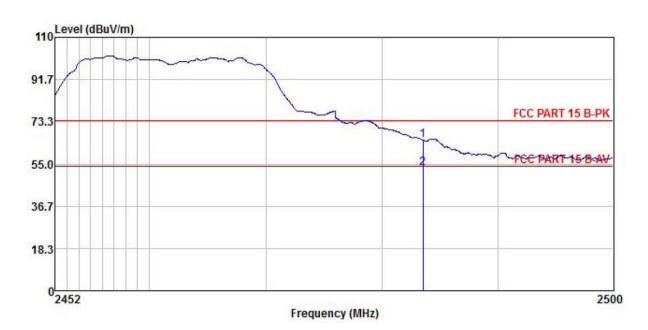
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	A571LS		
Test By:	Yaro	Test mode:	802.11g Tx mode	
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%	



	Freq		Antenna Factor						
	MHz	dBu₹	$\overline{dB/m}$	<u>d</u> B	dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B	4100-141100 NO 9410-C
1 2	2483.500 2483.500								

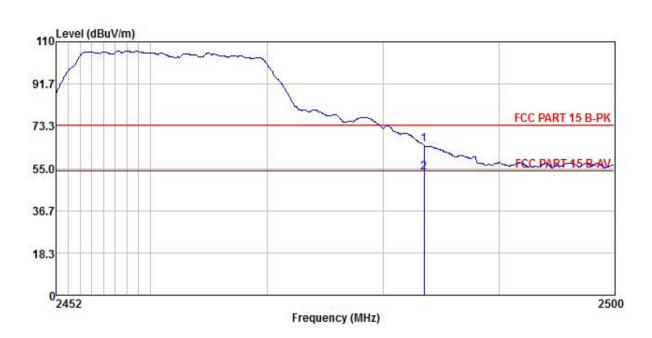
Remark

- 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:	A571LS		
Test By:	Yaro	Test mode: 802.11g Tx mode			
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq		Antenna Factor					Limit	
	MHz	dBu∇	$\overline{dB/m}$	<u>d</u> B	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1	2483.500								
2	2483.500	17.03	21.21	8.82	0.00	55.12	54.00	-0.88	Average

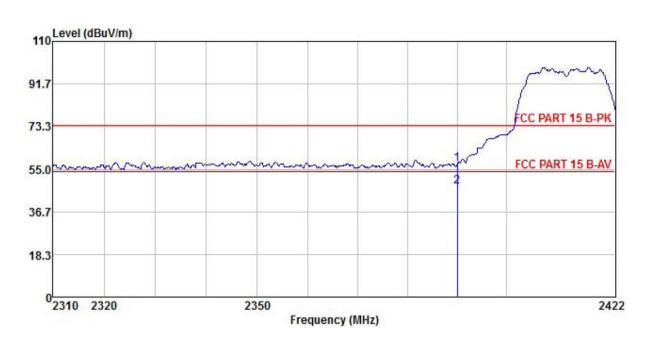
Remark:

- 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.



802.11n(HT20):

Product Name:	Mobile Phone	A571LS		
Test By:	Yaro	Test mode:	802.11n(HT20) Tx mode	
Test Channel:	Lowest channel	Polarization:	Vertical	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	



	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∇	dB/m	<u>dB</u>	<u>dB</u>	$\overline{\mathtt{dBuV/m}}$	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000								

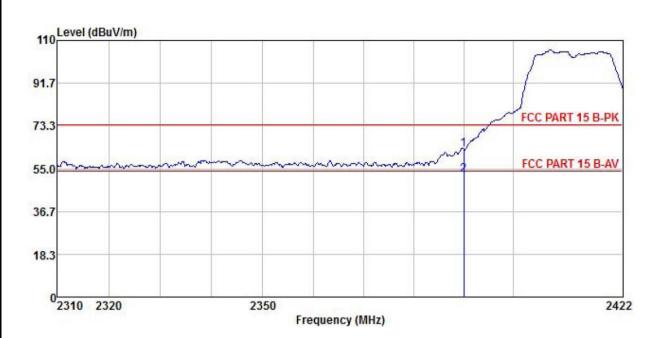
Remark:

- 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:	A571LS		
Test By:	Yaro	Test mode:	802.11n(HT20) Tx mode		
Test Channel:	Lowest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq		Antenna Factor					Over Limit	Remark
	MHz	dBu∇	dB/m	<u>dB</u>	dB	dBuV/m	dBu√/m		1 <u>-2-2-20-07-22-24-25-</u>
1 2	2390.000 2390.000					63.43 52.20			

Remark

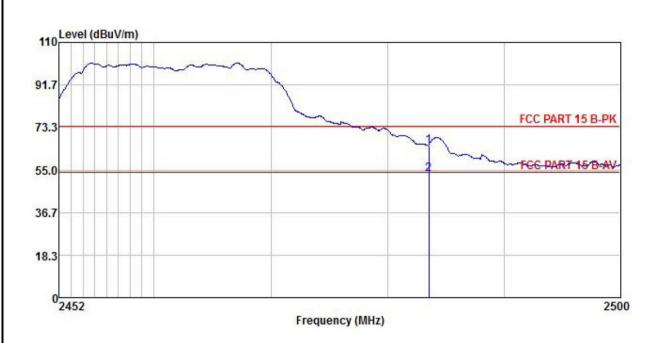
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Project No.: JYTSZE2105036



Product Name:	Mobile Phone	Product Model:	A571LS
Test By:	Yaro	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor						
	MHz	dBu∇	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2483.500 2483.500								

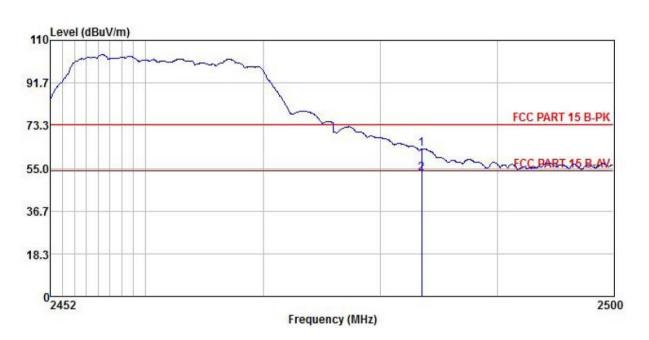
Remark:

- 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:	A571LS
Test By:	Yaro	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor						
	MHz	dBu∜	$\overline{dB/m}$	<u>dB</u>	−−−−dB	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1 2	2483.500 2483.500					63.12 52.58			

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

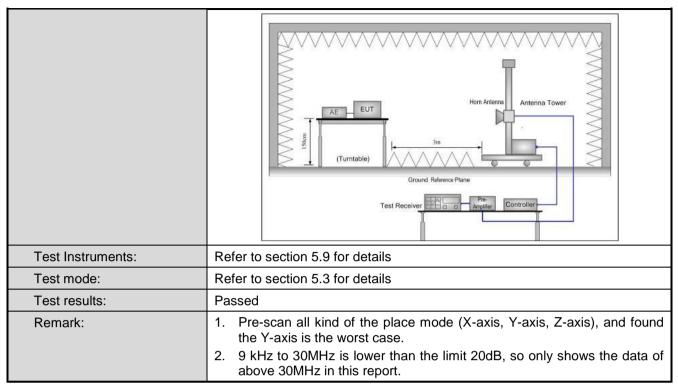
Test Requirement:	FCC Part 15 C Section 15.247 (d)						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz 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:	NS173B						
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						
Measurement Data:	Refer to Appendix A - 2.4G WIFI						



6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Se	ction 15.2	209 an	nd 15.205				
Test Frequency Range:	9kHz to 25GHz							
Test Distance:	3m							
Receiver setup:	Frequency	Detec	tor RBW		VBW		Remark	
·	30MHz-1GHz	Quasi-p	oeak	120KHz	300	KHz	Quasi-peak Value	
	Above 1GHz	Pea	k	1MHz	3MHz		Peak Value	
		RMS		1MHz		ИHz	Average Value	
Limit:	Frequency		Limi	t (dBuV/m @3i	m)		Remark	
	30MHz-88MH			40.0			Quasi-peak Value	
	88MHz-216MH			43.5			uasi-peak Value	
	216MHz-960MHz 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 table was highest radiated. The EUT was antenna, which tower. The antenna ground to det horizontal and measuremen. For each sus and then the and the rota to maximum reas. The test-rece Specified Bar. If the emission limit specified the EUT would the radiated.	above 1Gs rotated tion. See that a method wertical transpected erantenna value was ading. In level of It, then tested be repowould be	SHz) at 360 de eters a ounted varied ne max polariz mission was tu turned et the Elsting crorted. (e re-tes	way from the don the top of from one medimum value of the top of t	ermin inter of a value eter to of the ante as arr ees to Dete Mode inde v oed ar ee emis ne us	t a 3 mile the properties of four mile the properties of four mile the properties of	eter chamber. Position of the e-receiving height antenna heters above the trength. Both e set to make the to its worst case ter to 4 meters legrees to find the etion and dB lower than the peak values of that did not have ak, quasi-peak or	
Test setup:	Below 1GHz EUT Turn Table Ground I	0.8m	4m			s		



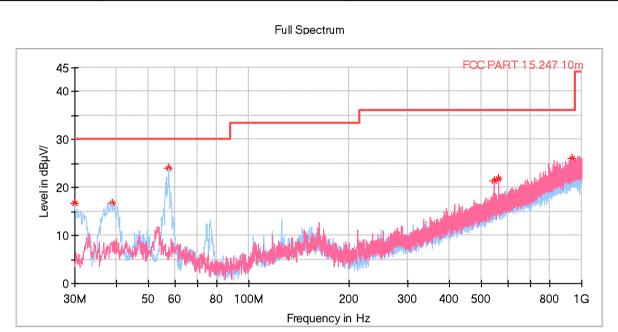




Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	A571LS	
Test By:	Yaro	Test mode:	Wi-Fi Tx mode	
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	



•	Frequency↓	MaxPeak↓	Limit↓	Margin ↓	Height↓	Pol₽	Azimuth ↓	Corr.↓
	(MHz)∂	(dB ¼ V/m)₽	(dBµ	(dB)∂	(cm)₽		(deg)∂	(dB/m)∂
•	30.0000004	16.63₽	30.00₽	13.37₽	100.0₽	H₽	230.0₽	-17.3₽
•	38.730000₽	16.78₽	30.00₽	13.22₽	100.0₽	H ₽	230.0₽	-15.9₽
•	57.451000₽	23.96₽	30.00₽	6.04₽	100.0₽	H₽	243.0₽	-16.6₽
•	547.592000₽	21.39₽	36.00₽	14.61₽	100.0₽	V₽	0.0₽	-7.8₽
•	562.530000₽	21.78₽	36.00₽	14.22₽	100.0₽	V₽	53.0₽	-7.5₽
•	935.301000₽	26.00₽	36.00₽	10.00₽	100.0₽	V₽	161.0₽	-0.3∉

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	56.73	-10.33	46.40	74.00	27.60	Vertical				
4824.00	55.90	-10.33	45.57	74.00	28.43	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	48.66	-10.33	38.33	54.00	15.67	Vertical				
4824.00	48.67	-10.33	38.34	54.00	15.66	Horizontal				
		Test ch	annel: Middle ch	nannel						
		Det	tector: Peak Valu	ıe						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4874.00	56.16	-10.17	45.99	74.00	28.01	Vertical				
4874.00	55.82	-10.17	45.65	74.00	28.35	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	48.71	-10.17	38.54	54.00	15.46	Vertical				
4874.00	48.26	-10.17	38.09	54.00	15.91	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	55.98	-10.02	45.96	74.00	28.04	Vertical				
4924.00	55.14	-10.02	45.12	74.00	28.88	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	48.23	-10.02	38.21	54.00	15.79	Vertical				
4924.00	48.16	-10.02	38.14	54.00	15.86	Horizontal				
Remark:										

Remark:

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

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





			802.11g				
Test 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	55.46	-10.33	45.13	74.00	28.87	Vertical	
4824.00	55.91	-10.33	45.58	74.00	28.42	Horizontal	
Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4824.00	48.15	-10.33	2.46	54.00	51.54	Vertical	
4824.00	48.71	-10.33	2.46	54.00	51.54	Horizontal	
4824.00	48.71	-10.33	2.46	54.00	51.54	Horizontal	

Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4874.00	56.92	-10.17	46.75	74.00	27.25	Vertical		
4874.00	55.41	-10.17	45.24	74.00	28.76	Horizontal		
	Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4874.00	48.71	-10.17	38.54	54.00	15.46	Vertical		
4874.00	48.26	-10.17	38.09	54.00	15.91	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	55.16	-10.02	45.14	74.00	-28.86	Vertical		
4924.00	55.71	-10.02	45.69	74.00	-28.31	Horizontal		
	Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4924.00	48.83	-10.02	38.81	54.00	15.19	Vertical		
4924.00	49.20	-10.02	39.18	54.00	14.82	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)				
		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	55.94	-10.33	45.61	74.00	28.39	Vertical	
4824.00	55.17	-10.33	44.84	74.00	29.16	Horizontal	
Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4824.00	48.61	-10.33	38.28	54.00	15.72	Vertical	
4824.00	48.71	-10.33	38.38	54.00	15.62	Horizontal	
		Test ch	annel: Middle ch	annel			
		De	tector: Peak Valu	ıe			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4874.00	55.97	-10.17	45.80	74.00	28.20	Vertical	
4874.00	55.26	-10.17	45.09	74.00	28.91	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	48.13	-10.17	37.96	54.00	16.04	Vertical	
4874.00	48.31	-10.17	38.14	54.00	15.86	Horizontal	
			annel: Highest cl				
		De	tector: Peak Valu				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4924.00	55.81	-10.02	45.79	74.00	28.21	Vertical	
4924.00	55.06	-10.02	45.04	74.00	28.96	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	48.09	-10.02	38.07	54.00	15.93	Vertical	
4924.00	47.93	-10.02	37.91	54.00	16.09	Horizontal	
Remark: 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.