

RF Test Report

(U-NII)

Report No.: JYTSZ-R12-2600271

Applicant: SWAGTEK

Address of Applicant: 12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA

Equipment Under Test (EUT)

Product Name: 4G MOBILE PHONE

Model No.: L67 PRO MAX, UL68M, MEGA2

Trade Mark: LOGIC, UNONU, iSWAG

FCC ID: O55671526

Applicable Standards: FCC CFR Title 47 Part 15E (\$15.407)

Date of Sample Receipt: 11 May, 2026

Date of Test: 12 May, to 15 Jun., 2026

Date of Report Issued: 16 Jun., 2026

Test Result: PASS

Tested by:

Project Engineer

Date:

16 Jun., 2026

Reviewed by:

Senior Engineer

Date:

16 Jun., 2026

Approved by:

Manager

Date:

16 Jun., 2026

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

1 Version

Version No.	Date	Description
00	16 Jun., 2026	Original

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3 General Information

3.1 Client Information

Applicant:	SWAGTEK
Address:	12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA
Manufacturer:	SWAGTEK
Address:	12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA
Factory:	SWAGTEK
Address:	12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA

3.2 General Description of E.U.T.

Product Name:	4G MOBILE PHONE
Model No.:	L67 PRO MAX, UL68M, MEGA2
Operation Frequency:	Band 1: 5150 MHz - 5250 MHz
Channel Numbers:	Band 1: 4 (802.11a, n-HT20, ac-VHT20)
	Band 1: 2 (802.11n-HT40, ac-VHT40)
	Band 1: 1 (802.11ac-VHT80)
Modulation Technology: (IEEE 802.11a/802.11n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Modulation Technology: (IEEE 802.11ac)	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna Type:	Internal Antenna
Antenna Gain:	0.3 dBi (declare by applicant)
Antenna Transmit Mode:	SISO (1TX, 1RX)
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 5000mAh
AC Adapter:	Model: JKX-052000A Input: AC100-240V, 50/60Hz, 0.5A Output: DC 5.0V, 2.0A
Remark:	L67 PRO MAX, UL68M, MEGA2 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Disclaimer

Disclaimer:
For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

3.4 Test Mode and Environment

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation
Per-scan all kind of data rate, the follow list were the worst case:	
Mode	Data rate
802.11a	6.0 Mbps
802.11n-HT20	6.5 Mbps
802.11n-HT40	13.5 Mbps
802.11ac-VHT20	6.5 Mbps
802.11ac-VHT40	13.5 Mbps
802.11ac-VHT80	29.3 Mbps
Remark: - For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11a, n, ac modulation mode, found 802.11a modulation and Lowes channel mode was worse case mode. The report only reflects the test data of worst mode. - Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. - During the test, the mobile phone dial interface is used to enter the EUT engineering mode, and the prototype transmission power level is set as follows: The 802.11a mode transmission power level is 15; the 802.11n/ac mode transmission power level is 14.	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85 Vdc, Extreme: Low 3.00 Vdc, High 4.40 Vdc
Test Engineer:	Hopper Li (Conducted measurement) Reiy Ren (Radiated measurement)

3.5 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Occupied Channel Bandwidth	0.114 MHz
RF output power, conducted	0.71 dB
Power Spectral Density, conducted	0.70 dB
Unwanted Emissions, conducted	2.76 dB
Conducted Emission for LISN (9kHz ~ 150kHz)	3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	2.5 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	2.1 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.7 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (30MHz ~ 1GHz) (3m FAR)	4.10 dB
Radiated Emission (1GHz ~ 18GHz) (3m FAR)	5.28 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.18 dB
Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

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

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

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

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.9 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://jyt.lets.com>

3.10 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	12-09-2025	12-08-2030
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	12-07-2025	12-06-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	08-09-2025	08-08-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-04-2025	12-03-2026
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-04-2025	12-03-2026
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	08-08-2025	08-07-2026
Coaxial Cable (30MHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-14-2026	01-13-2027
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-14-2026	01-13-2027
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	04-13-2026	04-12-2027
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	04-30-2026	04-29-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	03-30-2026	03-29-2027
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	03-30-2026	03-29-2027
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Spectrum Analyzer	KEYSIGHT	N9020B	WXJ081-1	05-08-2025	05-07-2026
				06-05-2026	06-04-2027
Coaxial Cable (30MHZ ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	07-28-2025	07-27-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	07-28-2025	07-27-2026
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	07-28-2025	07-27-2026
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	04-29-2026	04-28-2027
LISN	Rohde & Schwarz	ENV432	WXJ005-2	08-08-2025	08-07-2026
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	12-08-2025	12-07-2026
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-04-2025	12-03-2026
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-14-2026	01-13-2027
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	08-08-2025	08-07-2026
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	12-17-2024	12-16-2026
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	08-08-2025	08-07-2026
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	MWRFTTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

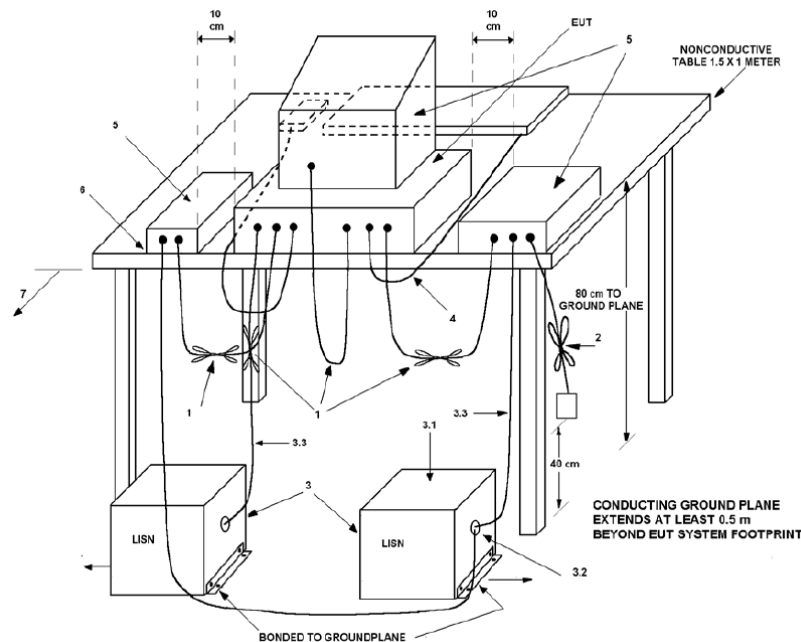
4.1 Test Channel

According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Operation frequency: 5150 MHz – 5250 MHz						
Modulation mode	Lowest channel		Middle channel		Highest channel	
	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11a, n-HT20, ac-VHT20	36	5180	40	5200	48	5240
802.11n-HT40, ac-VHT40	38	5190	/	/	46	5230
802.11ac-VHT80	/	/	42	5210	/	/

4.2 Test Setup

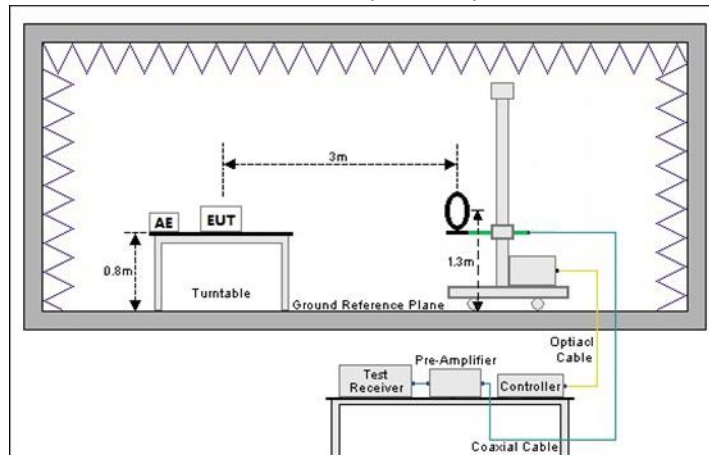
1) Conducted emission measurement:



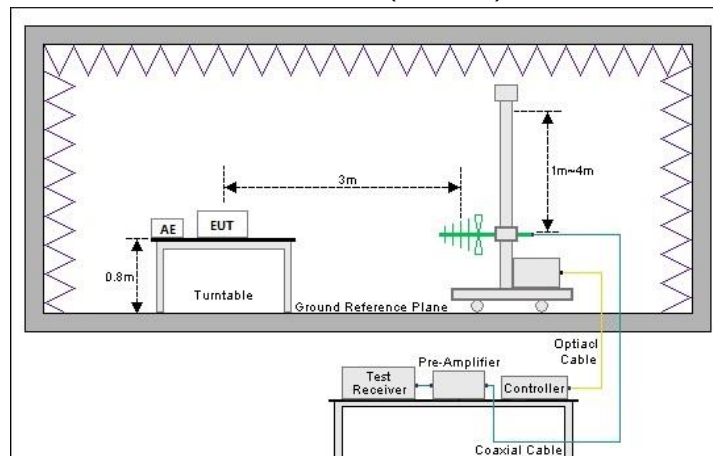
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

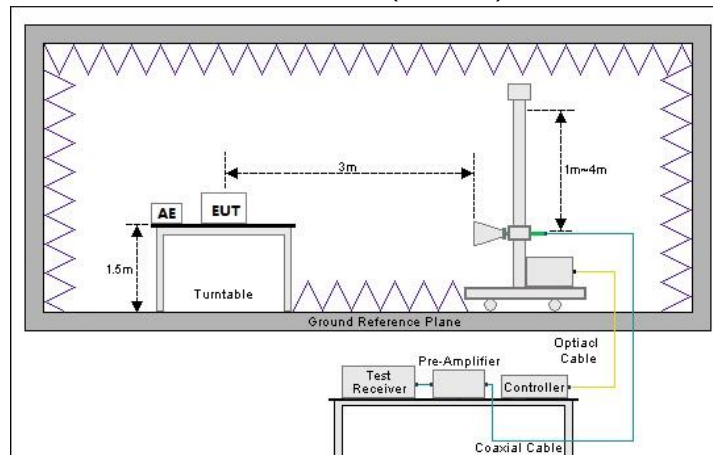
Below 30MHz (3m SAC)



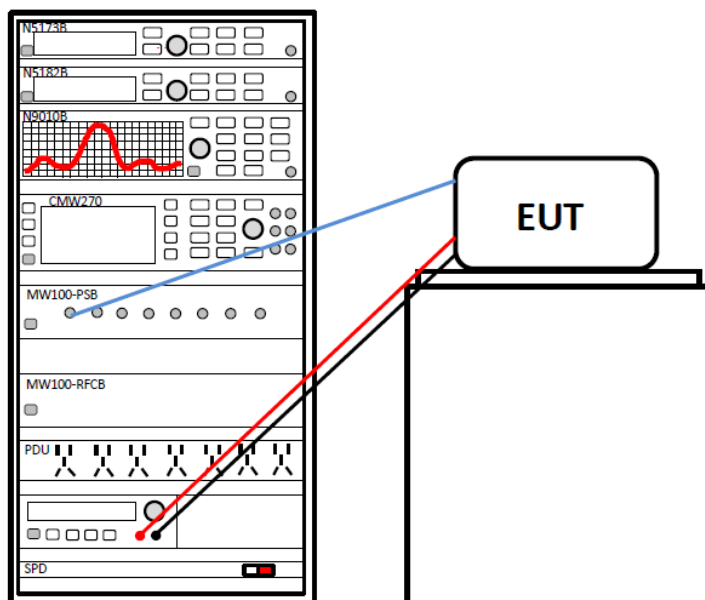
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



3) Conducted test method



4.3 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. 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). 3. 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 on conducted measurement.
Radiated emission	For below 30MHz: 1. The EUT was placed on the table top of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m or 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m or 10 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test Method	Test data	Result
Antenna Requirement	15.203	/	See Section 5.2	Pass
AC Power Line Conducted Emission	15.207 15.407 (b)(9)	ANSI C63.10 clause 6.2	See Section 5.3	Pass
Duty Cycle	ANSI C63.10-2020	ANSI C63.10 clause 12.2	Appendix A– 5.2G Wi-Fi	Pass
Conducted Peak Output Power Power Spectral Density	15.407 (a)(1)(iv)	ANSI C63.10 clause 12.3.3.1, ANSI C63.10 clause 12.5	Appendix A– 5.2G Wi-Fi	Pass
26dB Emission Bandwidth 99% Occupied Bandwidth	15.407 (a)(12)	ANSI C63.10 clause 12.4.1, ANSI C63.10 clause 6.9.3	Appendix A– 5.2G Wi-Fi	Pass
6dB Emission Bandwidth	15.407 (e)	ANSI C63.10 clause 12.4.1	Appendix A– 5.2G Wi-Fi	Pass
Unwanted Emissions	15.205 15.209 15.407 (b)(1), (9), (10)	ANSI C63.10 clause 6.3, 6.5, 6.6 and 6.10.5	See Section 5.4	Pass
Frequency Stability	15.407 (g)	KDB 789033 D02	---	Remark 4
Dynamic frequency selection	15.407 (h)(2)	N/A	N/A	N/A
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 1.0dB (provided by the customer). 4. Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.				
Test Method:	ANSI C63.10-2020 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01			

5.1.2 Test Limit

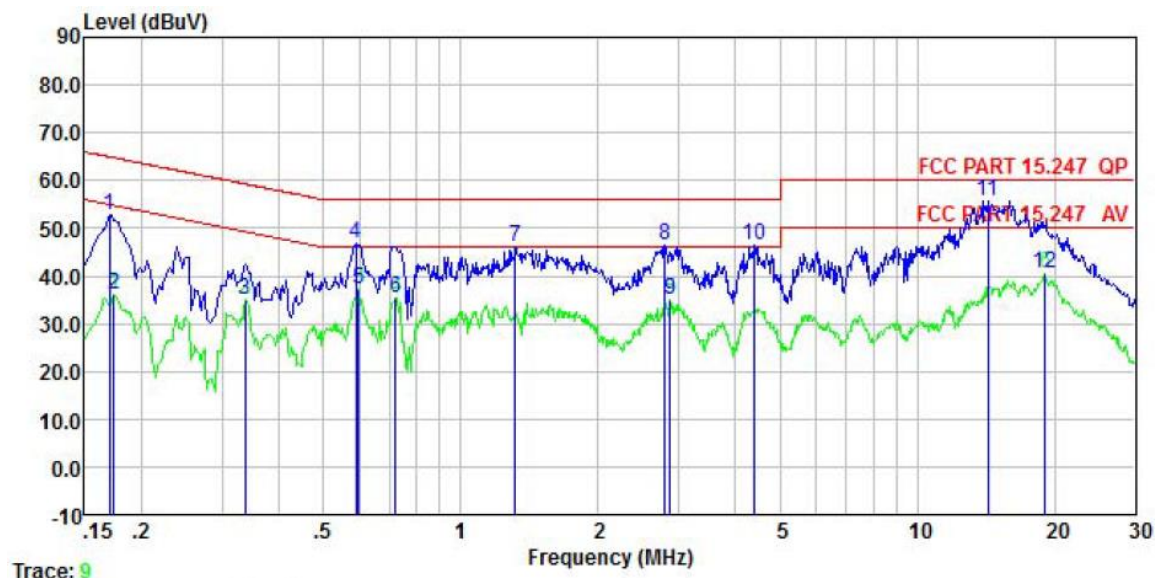
Test items	Limit																														
AC Power Line Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.	Frequency (MHz)	Limit (dBμV)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	56	46	5 – 30	60	50																
Frequency (MHz)	Limit (dBμV)																														
	Quasi-Peak	Average																													
0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1																													
0.5 – 5	56	46																													
5 – 30	60	50																													
Conducted Peak Output Power Power Spectral Density	For the 5.15-5.25 GHz band: For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.																														
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A																														
6dB Emission Bandwidth	Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.																														
Unwanted Emissions	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of 27 dBm/MHz. (5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. The provisions of § 15.205 apply to intentional radiators operating under this section: <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV/m)</th><th rowspan="2">Detector</th></tr><tr><th>@ 3m</th><th>@ 10m</th></tr><tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr></table> Note: The more stringent limit applies at transition frequencies. <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBμV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr></table> Note: The measurement bandwidth shall be 1 MHz or greater.	Frequency (MHz)	Limit (dBμV/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Frequency	Limit (dBμV/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dBμV/m)		Detector																												
	@ 3m	@ 10m																													
30 – 88	40.0	30.0	Quasi-peak																												
88 – 216	43.5	33.5	Quasi-peak																												
216 – 960	46.0	36.0	Quasi-peak																												
960 – 1000	54.0	44.0	Quasi-peak																												
Frequency	Limit (dBμV/m) @ 3m																														
	Average	Peake																													
Above 1 GHz	54.0	74.0																													
Frequency Stability	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.																														

5.2 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203
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.	
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 0.3 dBi. See product internal photos for details.	

5.3 AC Power Line Conducted Emission

Product name:	4G MOBILE PHONE	Product model:	L67 PRO MAX
Test by:	Kiran Zeng	Test mode:	802.11a Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test Channel:	Lowest channel	Test voltage:	AC 120 V/60 Hz

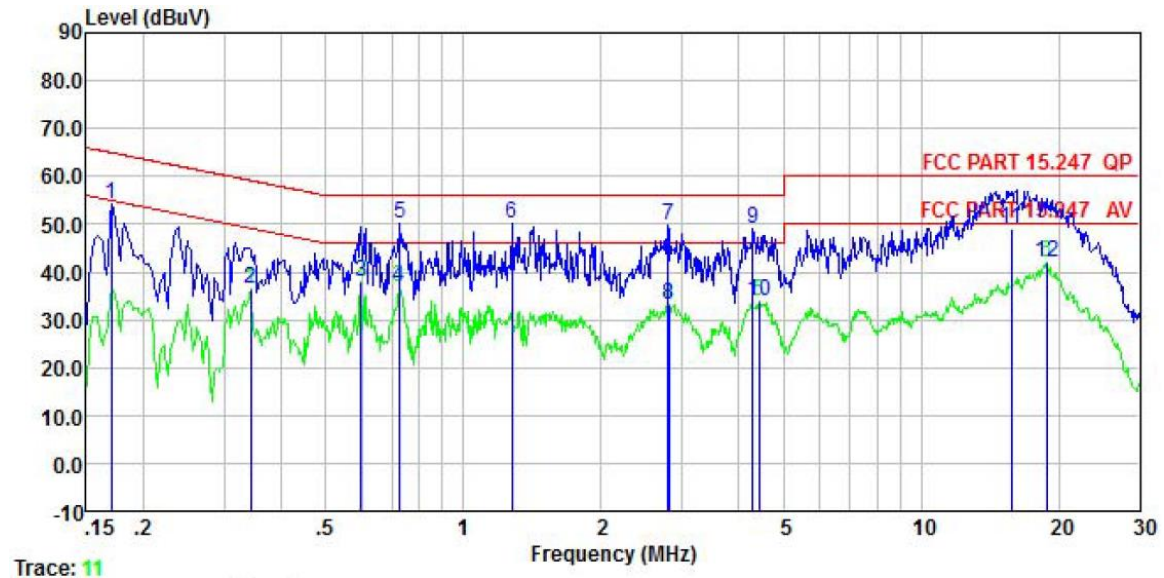


	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.170	32.86	10.15	0.00	9.88	0.00	52.89	64.94	-12.05	QP
2	0.174	16.24	10.15	0.00	9.88	0.00	36.27	54.77	-18.50	Average
3	0.337	15.04	10.10	0.00	9.88	0.00	35.02	49.27	-14.25	Average
4	0.589	26.78	10.19	0.00	9.88	0.00	46.85	56.00	-9.15	QP
5	0.598	17.30	10.20	0.00	9.88	0.00	37.38	46.00	-8.62	Average
6	0.720	15.25	10.14	0.00	9.88	0.00	35.27	46.00	-10.73	Average
7	1.317	25.91	10.16	0.00	9.88	0.00	45.95	56.00	-10.05	QP
8	2.794	26.30	10.26	0.00	9.88	0.00	46.44	56.00	-9.56	QP
9	2.869	15.01	10.28	0.00	9.89	0.00	35.18	46.00	-10.82	Average
10	4.384	26.32	10.18	0.00	9.89	0.00	46.39	56.00	-9.61	QP
11	14.288	35.00	10.74	0.00	9.93	0.00	55.67	60.00	-4.33	QP
12	19.021	20.02	10.47	0.00	9.95	0.00	40.44	50.00	-9.56	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	4G MOBILE PHONE	Product model:	L67 PRO MAX
Test by:	Kiran Zeng	Test mode:	802.11a Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test Channel:	Lowest channel	Test voltage:	AC 120 V/60 Hz



	Freq	Read	LISN	Aux	Aux2	Cable	Level	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.170	34.10	10.20	0.00	9.88	0.00	54.18	64.94	-10.76	QP
2	0.343	16.40	10.12	0.00	9.88	0.00	36.40	49.13	-12.73	Average
3	0.598	17.87	10.30	0.00	9.88	0.00	38.05	46.00	-7.95	Average
4	0.724	16.73	10.30	0.00	9.88	0.00	36.91	46.00	-9.09	Average
5	0.727	29.95	10.30	0.00	9.88	0.00	50.13	56.00	-5.87	QP
6	1.276	29.95	10.24	0.00	9.88	0.00	50.07	56.00	-5.93	QP
7	2.794	29.66	10.22	0.00	9.88	0.00	49.76	56.00	-6.24	QP
8	2.809	13.22	10.22	0.00	9.88	0.00	33.32	46.00	-12.68	Average
9	4.292	28.93	10.20	0.00	9.89	0.00	49.02	56.00	-6.98	QP
10	4.430	13.90	10.20	0.00	9.89	0.00	33.99	46.00	-12.01	Average
11	15.760	28.50	10.60	0.00	9.94	0.00	49.04	60.00	-10.96	QP
12	18.820	21.30	10.60	0.00	9.95	0.00	41.85	50.00	-8.15	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

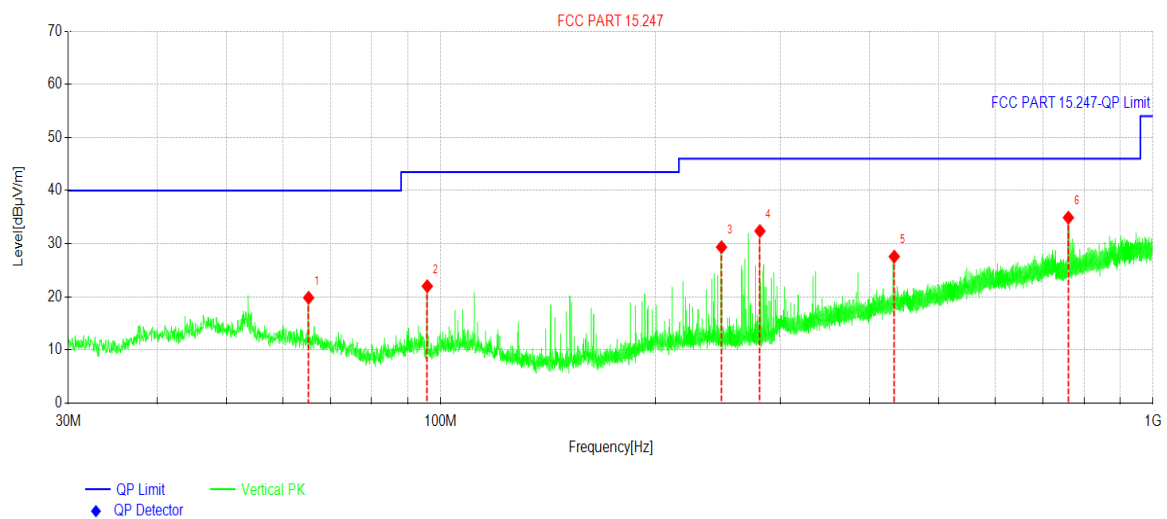
5.4 Unwanted Emissions

Below 30MHz:

Test Frequency from 9kHz to 30MHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Below 1GHz:

Product Name:	4G MOBILE PHONE	Product Model:	L67 PRO MAX
Test By:	Robin Gu	Test mode:	802.11a Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Channel:	Lowest channel	Test voltage:	DC 3.85V



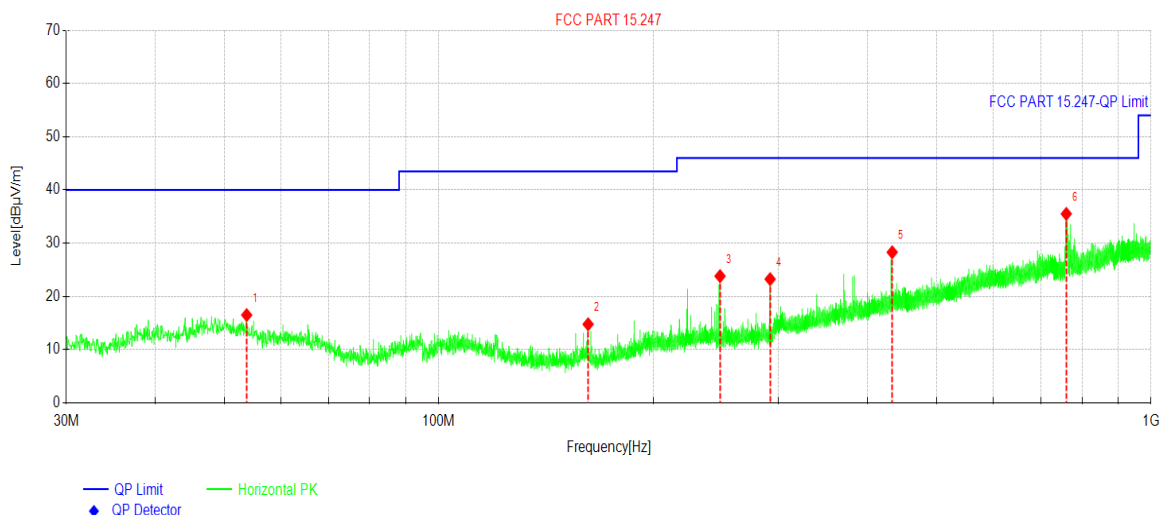
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	65.2595	34.93	-15.10	19.83	40.00	20.17	PK	Vertical
2	95.7660	37.79	-15.79	22.00	43.50	21.50	PK	Vertical
3	247.910	43.01	-13.65	29.36	46.00	16.64	PK	Vertical
4	280.696	46.05	-13.65	32.40	46.00	13.60	PK	Vertical
5	433.277	36.80	-9.22	27.58	46.00	18.42	PK	Vertical
6	760.798	37.43	-2.52	34.91	46.00	11.09	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	4G MOBILE PHONE	Product Model:	L67 PRO MAX
Test By:	Robin Gu	Test mode:	802.11a Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Channel:	Lowest channel	Test voltage:	DC 3.85V



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	53.7650	30.08	-13.58	16.50	40.00	23.50	PK	Horizontal
2	162.114	32.36	-17.59	14.77	43.50	28.73	PK	Horizontal
3	248.298	37.45	-13.64	23.81	46.00	22.19	PK	Horizontal
4	291.948	36.55	-13.30	23.25	46.00	22.75	PK	Horizontal
5	433.229	37.52	-9.22	28.30	46.00	17.70	PK	Horizontal
6	760.458	38.06	-2.55	35.51	46.00	10.49	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz

Band 1: 5150 MHz - 5250 MHz, 802.11a						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	42.73	19.72	62.45	74.00	11.55	Vertical
10360.00	46.33	2.23	48.56	68.20	19.64	Vertical
5150.00	43.80	19.72	63.52	74.00	10.48	Horizontal
10360.00	46.93	2.23	49.16	68.20	19.04	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	26.97	19.72	46.69	54.00	7.31	Vertical
5150.00	28.67	19.72	48.39	54.00	5.61	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	46.38	3.04	49.42	68.20	18.78	Vertical
10400.00	47.12	3.04	50.16	68.20	18.04	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	34.45	19.53	53.98	74.00	20.02	Vertical
10480.00	46.63	2.09	48.72	68.20	19.48	Vertical
5350.00	34.74	19.53	54.27	74.00	19.73	Horizontal
10480.00	47.33	2.09	49.42	68.20	18.78	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	23.63	19.53	43.16	54.00	10.84	Vertical
5350.00	23.61	19.53	43.14	54.00	10.86	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	44.56	19.72	64.28	74.00	9.72	Vertical
10360.00	46.78	2.23	49.01	68.20	19.19	Vertical
5150.00	44.68	19.72	64.40	74.00	9.60	Horizontal
10360.00	47.07	2.23	49.30	68.20	18.90	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	28.56	19.72	48.28	54.00	5.72	Vertical
5150.00	30.51	19.72	50.23	54.00	3.77	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	46.7	3.04	49.74	68.20	18.46	Vertical
10400.00	47.39	3.04	50.43	68.20	17.77	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	34.83	19.53	54.36	74.00	19.64	Vertical
10480.00	46.79	2.09	48.88	68.20	19.32	Vertical
5350.00	35.40	19.53	54.93	74.00	19.07	Horizontal
10480.00	46.94	2.09	49.03	68.20	19.17	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	23.78	19.53	43.31	54.00	10.69	Vertical
5350.00	23.62	19.53	43.15	54.00	10.85	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	42.80	19.72	62.52	74.00	11.48	Vertical
10380.00	46.34	2.65	48.99	68.20	19.21	Vertical
5150.00	44.96	19.72	64.68	74.00	9.32	Horizontal
10380.00	47.19	2.65	49.84	68.20	18.36	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	28.74	19.72	48.46	54.00	5.54	Vertical
5150.00	30.36	19.72	50.08	54.00	3.92	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.05	19.53	54.58	74.00	19.42	Vertical
10460.00	46.13	2.33	48.46	68.20	19.74	Vertical
5350.00	34.93	19.53	54.46	74.00	19.54	Horizontal
10460.00	47.02	2.33	49.35	68.20	18.85	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	23.69	19.53	43.22	54.00	10.78	Vertical
5350.00	23.76	19.53	43.29	54.00	10.71	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	41.75	19.72	61.47	74.00	12.53	Vertical
10360.00	46.08	2.23	48.31	68.20	19.89	Vertical
5150.00	44.68	19.72	64.40	74.00	9.60	Horizontal
10360.00	46.67	2.23	48.90	68.20	19.30	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	28.21	19.72	47.93	54.00	6.07	Vertical
5150.00	29.90	19.72	49.62	54.00	4.38	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	46.66	3.04	49.70	68.20	18.50	Vertical
10400.00	47.31	3.04	50.35	68.20	17.85	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	34.37	19.53	53.90	74.00	20.10	Vertical
10480.00	45.98	2.09	48.07	68.20	20.13	Vertical
5350.00	35.06	19.53	54.59	74.00	19.41	Horizontal
10480.00	46.94	2.09	49.03	68.20	19.17	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	23.48	19.53	43.01	54.00	10.99	Vertical
5350.00	23.91	19.53	43.44	54.00	10.56	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	42.96	19.72	62.68	74.00	11.32	Vertical
10380.00	46.69	2.65	49.34	68.20	18.86	Vertical
5150.00	45.35	19.72	65.07	74.00	8.93	Horizontal
10380.00	46.57	2.65	49.22	68.20	18.98	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	28.57	19.72	48.29	54.00	5.71	Vertical
5150.00	30.1	19.72	49.82	54.00	4.18	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	34.87	19.53	54.40	74.00	19.60	Vertical
10460.00	46.46	2.33	48.79	68.20	19.41	Vertical
5350.00	34.78	19.53	54.31	74.00	19.69	Horizontal
10460.00	47.29	2.33	49.62	68.20	18.58	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	23.3	19.53	42.83	54.00	11.17	Vertical
5350.00	23.55	19.53	43.08	54.00	10.92	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT80						
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	42.00	19.72	61.72	74.00	12.28	Vertical
5350.00	35.68	19.53	55.21	74.00	18.79	Vertical
10420.00	46.42	2.80	49.22	68.20	18.98	Vertical
5150.00	44.85	19.72	64.57	74.00	9.43	Horizontal
5350.00	34.57	19.53	54.10	74.00	19.9	Horizontal
10420.00	46.91	2.80	49.71	68.20	18.49	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	29.09	19.72	48.81	54.00	5.19	Vertical
5350.00	23.86	19.53	43.39	54.00	10.61	Vertical
5150.00	30.84	19.72	50.56	54.00	3.44	Horizontal
5350.00	24.04	19.53	43.57	54.00	10.43	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

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