A2LA Cert. No. 5463.01

TEST REPORT

Report Number	:	TZ0035250609FRF04
Product Name	:	DRONE
Model/Type reference	:	Refer to section 1.2 of this report
FCC ID	:	2BDOQ-G11PROSYK
Prepared for	:	Gleesfun Inc 1226 NORTH KING ST.NUM 438, WILMINGTON Delaware, United States

Prepared By	:	Shenzhen Tongzhou Testing Co.,Ltd. 1st Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China
Standards	:	FCC CFR Title 47 Part 15E, ANSI C63.10: 2013
Date of Test	:	2025-06-05 ~ 2025-06-06
Date of Issue	:	2025-06-06

Prepared by	:	Lena Wen	Lena Wen
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Approved by	:	Max Zhang (Authorized Officer)	Max Zhang

Shenzhen Tongzhou Testing Co., Ltd.

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** Report Revise Record **

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2025-06-06	Valid	Initial release

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1. GENERAL INFORMATION

1.1. Client Information

Applicant	:	Gleesfun Inc
Address	:	1226 NORTH KING ST.NUM 438, WILMINGTON Delaware, United States
Manufacturer	:	Gleesfun Inc
Address	:	1226 NORTH KING ST.NUM 438, WILMINGTON Delaware, United States

1.2. Description of Device (EUT)

Product Name	:	DRONE
Trade Mark	:	/
Model Number	:	G11PRO, G11PRO2, G11PRO2-3B, G11PRO2 FlyMore, G11PRO2(RC3), G11PRO2(RC3)-3B, G11PRO2(RC3)Fly More, G11PRO2 S, G11PRO2 S-3B, G11PRO2 SFlyMore, G11PRO2 S(RC3), G11PRO2 S(RC3)-3B, G11PRO2 S(RC3)Fly More, G11PRO3, G11PRO3-3B, G11PRO3 Fly More, G11PRO3(RC3), G11PRO3(RC3)-3B, G11PRO3(RC3)Fly More, G11PRO3 S, G11PRO3 S-3B, G11PRO3 SFly More, G11PRO3 S(RC3), G11PRO3 S(RC3)-3B, G11PRO3 S(RC3)Fly More, G11PRO-3B, G11PRO Fly More, G11PRO(RC4), G11PRO(RC4)-3B, G11PRO(RC4)Fly More, G11PRO S, G11PRO S-3B, G11PRO SFlyMore, G11PRO S(RC4), G11PRO S(RC4)-3B, G11PRO S(RC4)Fly More, G11MINI, G11MINI-3B, G11MINI Fly More, G11MINI SE, F11MINI SE-3B, G11MINI SE Fly More, G11MINI 4K, G11MINI 4K-3B, G11MINI 4K Fly More, G11MINI 4K(RC4), G11MINI 4K(RC4)-3B, G11MINI 4K(RC4)Fly More, G11MINI 4K S, G11MINI 4K S-3B, G11MINI 4K S Fly More, G11MINI 4K S(RC4), G11MINI 4K S(RC4)-3B, G11MINI 4K S(RC4)Fly More
Model Declaration	:	All the same except for the model name
Test Model	:	G11PRO
Power Supply	:	DC 7.7V by battery
Hardware version	:	V1.0
Software version	:	V1.0

1.3. Wireless Function Tested in this Report

WiFi		
WLAN FCC Operation Frequency	:	IEEE 802.11a/n/ac: 5745-5825MHz
WLAN Channel Number	:	5 Channels for 5745-5825MHz(IEEE 802.11a/ac VHT20/n HT20)
WLAN Modulation Technology	:	IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type And Gain	:	Internal antenna, Ant1:3.17dBi, Ant2:3.60dBi 802.11n/ac support 2T2R.[Antenna 1 and Antenna 2]

Note 1: Antenna position refer to EUT Photos.
Note 2: the above information was supplied by the applicant.

1.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:
●supplied by the manufacturer

○supplied by the lab

○	Adapter	Model:	MDY-10-EH
		Input:	Input 100-240V\AC 50/60Hz 0.7A
		Output:	Output 5V 3A

1.5. Description of Test Facility

FCC

Designation Number: CN1275
Test Firm Registration Number: 167722
Shenzhen Tongzhou Testing Co.,Ltd has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA

Certificate Number: 5463.01
Shenzhen Tongzhou Testing Co.,Ltd has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

IC

ISED#: 22033
CAB identifier: CN0099
Shenzhen Tongzhou Testing Co.,Ltd has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010

1.6. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the Shenzhen Tongzhou Testing Co.,Ltd quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.7. Measurement Uncertainty

Test Item		Uncertainty	Note
Radiation Uncertainty(9KHz~30MHz)	:	±3.26dB	(1)
Radiation Uncertainty(30MHz~1000MHz)	:	±3.92dB	(1)
Radiation Uncertainty(1GHz~40GHz)	:	±5.62dB	(1)
Conduction Uncertainty	:	±2.71dB	(1)
Occupied Channel Bandwidth	:	±3.0%	(1)
RF power, conducted	:	±0.16dB	(1)
Power Spectral Density, conducted	:	±1.3dB	(1)
Unwanted Emissions, conducted	:	±1.3dB	(1)
Time	:	±1.0%	(1)
Duty Cycle	:	±3.0%	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be **802.11ac VHT20 high channel MIMO**

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be **802.11ac VHT20 high channel MIMO**

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

IEEE 802.11a Mode : 6 Mbps, OFDM
IEEE 802.11ac VHT20 Mode: MCS0
IEEE 802.11n HT20 Mode: MCS0

Antenna & Bandwidth

Antenna	Antenna 1			Antenna 2			Simultaneously
Bandwidth Mode	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz	/
IEEE 802.11a	☑	☐	☐	☑	☐	☐	☐
IEEE 802.11n	☑	☐	☐	☑	☐	☐	☑
IEEE 802.11ac	☑	☐	☐	☑	☐	☐	☑

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen Tongzhou Testing Co.,Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.
According to FCC's request, Test Procedure 789033 D02 General UNII Test Procedures New Rules v02r01 and KDB 6622911 are required to be used for this kind of FCC 15.407 UII device.
According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E

2.3. Test Sample

Sample ID	Description
TZ0035250609–1#	Engineer sample – continuous transmit
TZ0035250609–2#	Normal sample – Intermittent transmit

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (Android Debug Bridge version 1.0.29 at power level 45) provided by application.

3.3. Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
1	PC	ASUS	X454L	15105-0038A100	/	/	/

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen Tongzhou Testing Co.,Ltd has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart E			
FCC Rules	Description of Test	Sample ID	Result
§15.407(a)	Maximum Conducted Output Power	TZ0035250609–1#	Compliant
§15.407(a)	Power Spectral Density	TZ0035250609–1#	Compliant
§15.407(e)	6dB Bandwidth	TZ0035250609–1#	Compliant
/	99% Occupied Bandwidth	TZ0035250609–1#	Note 1
§15.407(b)	Radiated Emissions	TZ0035250609–1#& TZ0035250609–2#	Compliant
§15.407(b)	Band edge Emissions	TZ0035250609–1#	Compliant
§15.407(g)	Frequency Stability	TZ0035250609–1#	Compliant
§15.207(a)	Line Conducted Emissions	TZ0035250609–2#	Compliant
§15.203	Antenna Requirements	N/A	Compliant
Note 1: only for report purpose.			

Remark: The measurement uncertainty is not included in the test result.

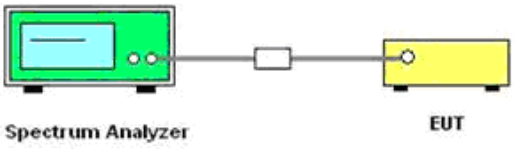
5. TEST RESULT

5.1. On Time and Duty Cycle

5.1.1. Standard Applicable

None. for reporting purpose only.

5.1.2. Block Diagram of Test Setup



5.1.3. Test Procedures

1. Set the Centre frequency of the spectrum analyzer to the transmitting frequency.
2. Set the span=0MHz, RBW=8MHz, VBW=8MHz.
3. Detector = peak.
4. Trace mode = Single hold.

5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.5. Test Result

Pass

Remark:
1. Please refer to Appendix F of Appendix Test Data for RLAN(5.8G) for test data.

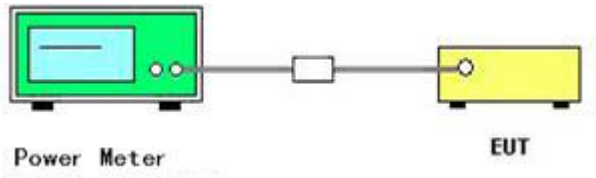
5.2. Maximum Conducted Output Power Measurement

5.2.1. Standard Applicable

For 5725~5850MHz

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.2.2. Block Diagram of Test Setup



5.2.3. Test Procedures

The transmitter output (antenna port) was connected to the power meter.

According to KDB 789033 D02 Section 3 (a) Method PM (Measurement using an RF average power meter):

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.5. Test Result

Pass

Remark:
1. Measured output power at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss.
3. For MIMO with CCD technology device:
4. Directional gain = 3.60 dBi.

5. Report conducted average power = measured conducted average power + Duty Cycle factor.
6. Please refer to Appendix B of Appendix Test Data for RLAN(5.8G) for test data.

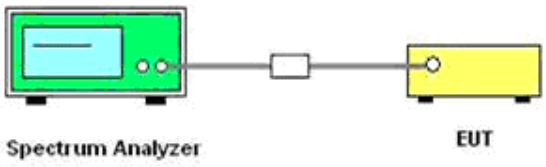
5.3. Power Spectral Density Measurement

5.3.1. Standard Applicable

For 5725~5850MHz

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.3.2. Block Diagram of Test Setup



5.3.3. Test Procedures

1. The transmitter was connected directly to a Spectrum Analyzer through a directional couple.
2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
3. Set the RBW = 300 KHz.
4. Set the VBW ≥ 3*RBW
5. Span=Encompass the entire emissions bandwidth (EBW) of the signal
6. Detector = RMS Average.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
11. If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
12. Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

5.3.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.5. Test Result of Power Spectral Density

Pass

Remark:
1. Measured power spectrum density at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss.
3. For MIMO with CCD technology device
   Directional gain = 6.40 dBi.
4. Report conducted PSD = measured conducted PSD + Duty Cycle factor + RBW factor.
5. Please refer to Appendix C of Appendix Test Data for RLAN(5.8G) for test data.

5.4. 6dB Emission Bandwidth and Occupied Channel Bandwidth Measurement

5.4.1. Standard Applicable

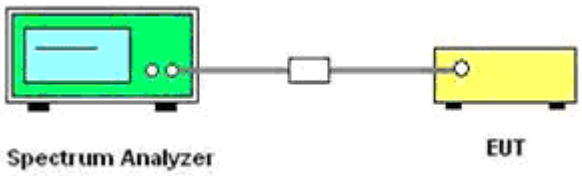
Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.4.2. Measuring Instruments and Setting

Please refer to section 6 of equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span	> 26dB Bandwidth
Detector	Peak
Trace	Max Hold

5.4.3. Block Diagram of Test Setup



5.4.4. Test Procedures

6dB Spectrum Bandwidth Test Procedure:
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to C63.10 11.8.1.
3. Measured the spectrum width with power higher than 6dB below carrier.

Occupied Bandwidth Spectrum Bandwidth Test Procedure:
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to C63.10 6.9.3
3. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Test Result

Pass

Remark:
1. Measured 6dB bandwidth at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss.
3. Please refer to Appendix A of Appendix Test Data for RLAN(5.8G) for test data.

5.5. Radiated Emissions Measurement

5.5.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.Android 10-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
\2\ Above 38.6

For transmitters operating in the 5.725-5.85 GHz band:
All emissions shall be limited to a level of −27 dBm/MHz(68.2dBuV/m at 3m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz(105.2dBuV/m at 3m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6(110.8dBuV/m at 3m) dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz(122.2dBuV/m at 3m) at the band edge.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

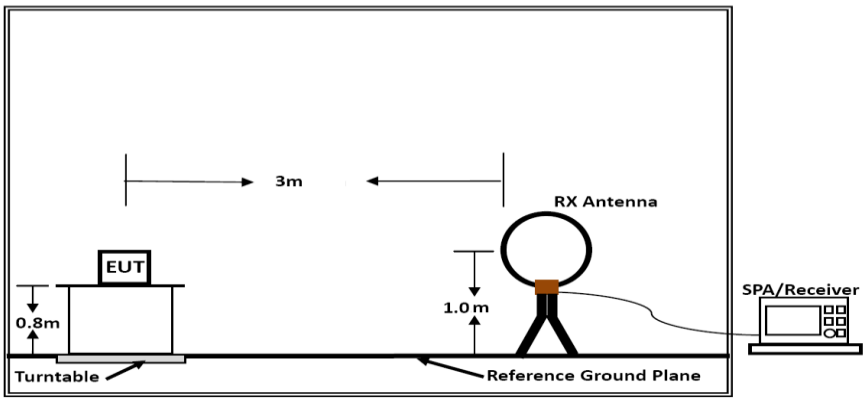
5.5.2. Measuring Instruments and Setting

Please refer to section 6 of equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

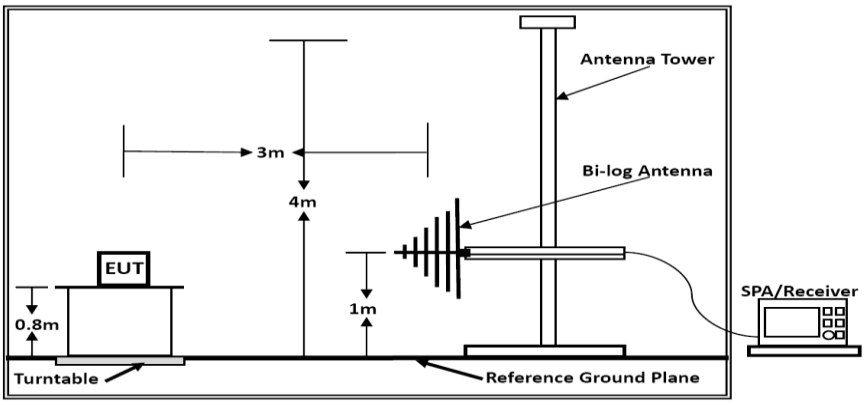
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak/Average
RB / VB (Emission in non-restricted band)	1MHz / 3MHz for Peak/Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

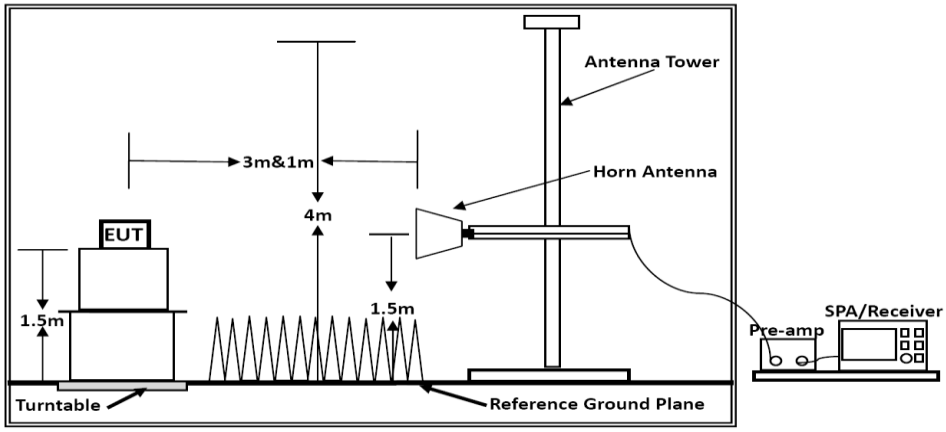
5.5.3. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.
Distance extrapolation factor = 20 log (specific distanc [3m] / test distance [1.5m]) (dB).
Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.5.4. Test Procedures

1) **Sequence of testing 9 kHz to 30 MHz**
Setup:
--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
--- If the EUT is a floor standing device, it is placed on the ground.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.
Premeasurement:
--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna height is 1.0 meter.
--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions
Final measurement:
--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna is polarized vertical and horizontal.
--- The antenna height changes from 1 to 3 meter.
--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.
--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
--- The final measurement will be done with QP detector with an EMI receiver.
--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna is polarized vertical and horizontal.
--- The antenna height scan range is 1 meter to 2.5 meter.
--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.
--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 1 meter.
--- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

5.5.5. Test Results

Pass

Results of Radiated Emissions (9 KHz~30MHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	IEEE 802.11a/n/ac
Test Voltage	DC 7.7V	/	/

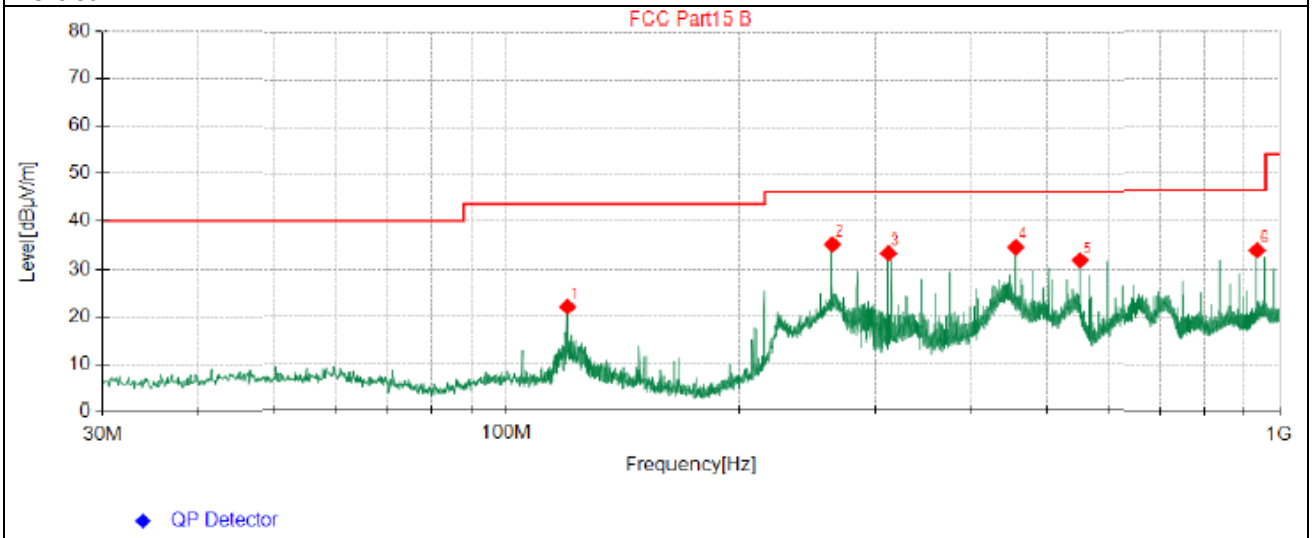
Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
Limit line = specific limits (dBuV) + distance extrapolation factor.

Results of Radiated Emissions (30MHz~1GHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	IEEE 802.11a/n/ac
Test Voltage	DC 7.7V	/	/

Vertical

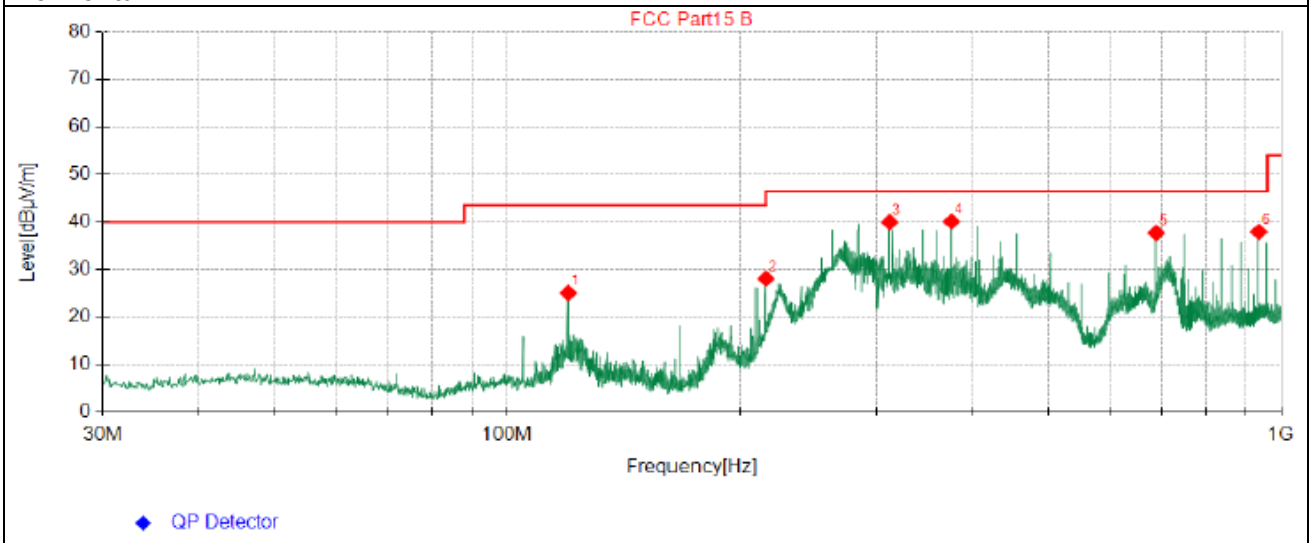


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	119.9	39.49	-17.63	21.86	43.50	21.64	100	166	Vertical
2	264.0	48.94	-13.57	35.37	46.50	11.13	100	209	Vertical
3	312.0	45.97	-12.47	33.50	46.50	13.00	100	185	Vertical
4	456.0	43.72	-8.93	34.79	46.50	11.71	100	26	Vertical
5	552.1	38.80	-6.78	32.02	46.50	14.48	100	241	Vertical
6	936.1	34.75	-0.61	34.14	46.50	12.36	100	111	Vertical

***Note:
1. Level [dBμV/m] = Reading [dBμV] + Factor [dB/m]
2. Margin [dB] = Limit [dBμV/m] - Level [dBμV/m]
3.Pre-scan all modes and recorded the worst case results in this report.

Horizontal



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	119.9	42.68	-17.63	25.05	43.50	18.45	100	72	Horizontal
2	215.9	43.02	-14.93	28.09	43.50	15.41	100	117	Horizontal
3	312.0	52.45	-12.47	39.98	46.50	6.52	100	78	Horizontal
4	375.0	50.85	-10.73	40.12	46.50	6.38	100	258	Horizontal
5	689.7	42.15	-4.47	37.68	46.50	8.82	100	46	Horizontal
6	936.1	38.54	-0.61	37.93	46.50	8.57	100	82	Horizontal

***Note:
1. Level [dBµV/m] = Reading [dBµV] + Factor [dB/m]
2. Margin [dB] = Limit [dBµV/m] - Level [dBµV/m]
3.Pre-scan all modes and recorded the worst case results in this report.

Results for Radiated Emissions (1GHz to 40GHz)

Temperature	24℃	Humidity	55.2%
Test Engineer	Tony Luo	Configurations	IEEE 802.11 a/n/ac
Test Voltage	DC 7.7V	/	/

Remark: Measured all modes and recorded worst case.

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Channel 149 / 5745 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.24	56.16	33.06	35.04	3.94	58.12	68.20	10.08	Peak	Horizontal
17.24	43.06	33.06	35.04	3.94	45.02	54.00	8.98	Average	Horizontal
17.24	55.93	33.06	35.04	3.94	57.89	68.20	10.31	Peak	Vertical
17.24	41.34	33.06	35.04	3.94	43.30	54.00	10.70	Average	Vertical

Channel 157 / 5785 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.36	51.32	33.16	35.15	3.96	53.29	68.20	14.91	Peak	Horizontal
17.36	42.35	33.16	35.15	3.96	44.32	54.00	9.68	Average	Horizontal
17.36	51.40	33.16	35.15	3.96	53.37	68.20	14.83	Peak	Vertical
17.36	42.71	33.16	35.15	3.96	44.68	54.00	9.32	Average	Vertical

Channel 165 / 5825 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.48	55.28	33.26	35.14	3.98	57.38	68.20	10.82	Peak	Horizontal
17.48	40.49	33.26	35.14	3.98	42.59	54.00	11.41	Average	Horizontal
17.48	55.08	33.26	35.14	3.98	57.18	68.20	11.02	Peak	Vertical
17.48	40.45	33.26	35.14	3.98	42.55	54.00	11.45	Average	Vertical

IEEE 802.11n HT20 MIMO

Channel 149 / 5745 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.24	53.30	33.06	35.04	3.94	55.26	68.20	12.94	Peak	Horizontal
17.24	44.39	33.06	35.04	3.94	46.35	54.00	7.65	Average	Horizontal
17.24	52.52	33.06	35.04	3.94	54.48	68.20	13.72	Peak	Vertical
17.24	44.19	33.06	35.04	3.94	46.15	54.00	7.85	Average	Vertical

Channel 157 / 5785 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.36	54.07	33.16	35.15	3.96	56.04	68.20	12.16	Peak	Horizontal
17.36	43.77	33.16	35.15	3.96	45.74	54.00	8.26	Average	Horizontal
17.36	55.13	33.16	35.15	3.96	57.10	68.20	11.10	Peak	Vertical
17.36	41.56	33.16	35.15	3.96	43.53	54.00	10.47	Average	Vertical

Channel 165 / 5825 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.48	54.63	33.26	35.14	3.98	56.73	68.20	11.47	Peak	Horizontal
17.48	42.24	33.26	35.14	3.98	44.34	54.00	9.66	Average	Horizontal
17.48	55.28	33.26	35.14	3.98	57.38	68.20	10.82	Peak	Vertical
17.48	42.08	33.26	35.14	3.98	44.18	54.00	9.82	Average	Vertical

IEEE 802.11ac VHT20 MIMO

Channel 149 / 5745 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.24	55.33	33.06	35.04	3.94	57.29	68.20	10.91	Peak	Horizontal
17.24	43.78	33.06	35.04	3.94	45.74	54.00	8.26	Average	Horizontal
17.24	52.67	33.06	35.04	3.94	54.63	68.20	13.57	Peak	Vertical
17.24	42.19	33.06	35.04	3.94	44.15	54.00	9.85	Average	Vertical

Channel 157 / 5785 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.36	55.07	33.16	35.15	3.96	57.04	68.20	11.16	Peak	Horizontal
17.36	44.11	33.16	35.15	3.96	46.08	54.00	7.92	Average	Horizontal
17.36	54.08	33.16	35.15	3.96	56.05	68.20	12.15	Peak	Vertical
17.36	40.18	33.16	35.15	3.96	42.15	54.00	11.85	Average	Vertical

Channel 165 / 5825 MHz

Freq. GHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
17.48	55.72	33.26	35.14	3.98	57.82	68.20	10.38	Peak	Horizontal

17.48	40.49	33.26	35.14	3.98	42.59	54.00	11.41	Average	Horizontal
17.48	56.02	33.26	35.14	3.98	58.12	68.20	10.08	Peak	Vertical
17.48	41.07	33.26	35.14	3.98	43.17	54.00	10.83	Average	Vertical

Notes:

1. Measuring frequencies from 9 KHz ~40 GHz, No emission found between lowest internal used/generated frequencies to 30MHz.
2. Radiated emissions measured in frequency range from 9 KHz ~40GHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Level = Reading + Ant. Fac - Pre. Fac. + Cab. Loss. Margin = Limit - Level

5.6. Power line conducted emissions

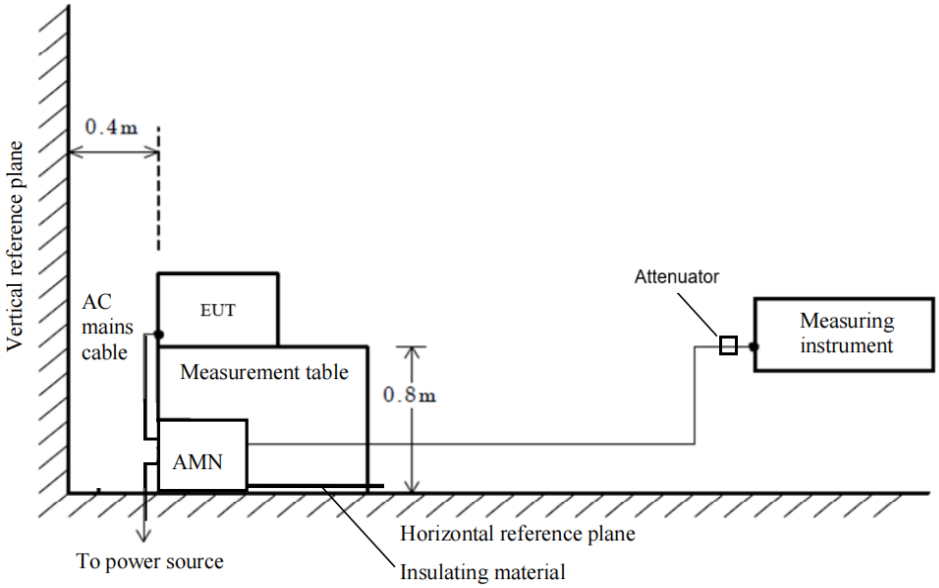
5.6.1. Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

5.6.2. Block Diagram of Test Setup



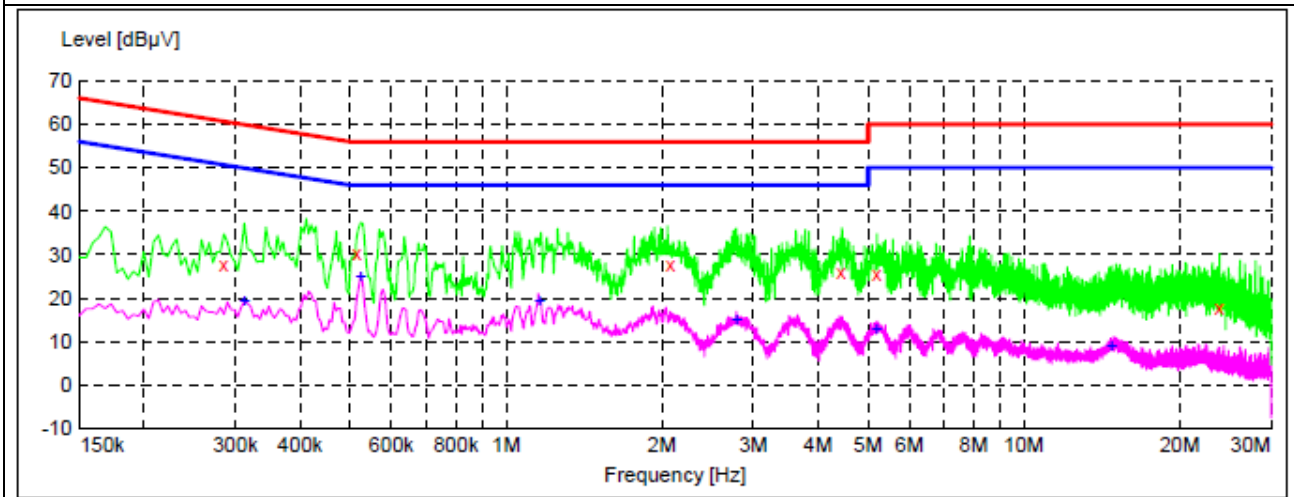
Note: the distance between LISN and Vertical reference plane is 40 cm and the distance between LISN and EUT is 80 cm.

5.6.3. Test Results

Temperature	24℃	Humidity	55.2%
Test Engineer	Tony Luo	Configurations	802.11a/n/ac
Test Voltage	AC 120V/60Hz	/	/

PASS

Neutral Line

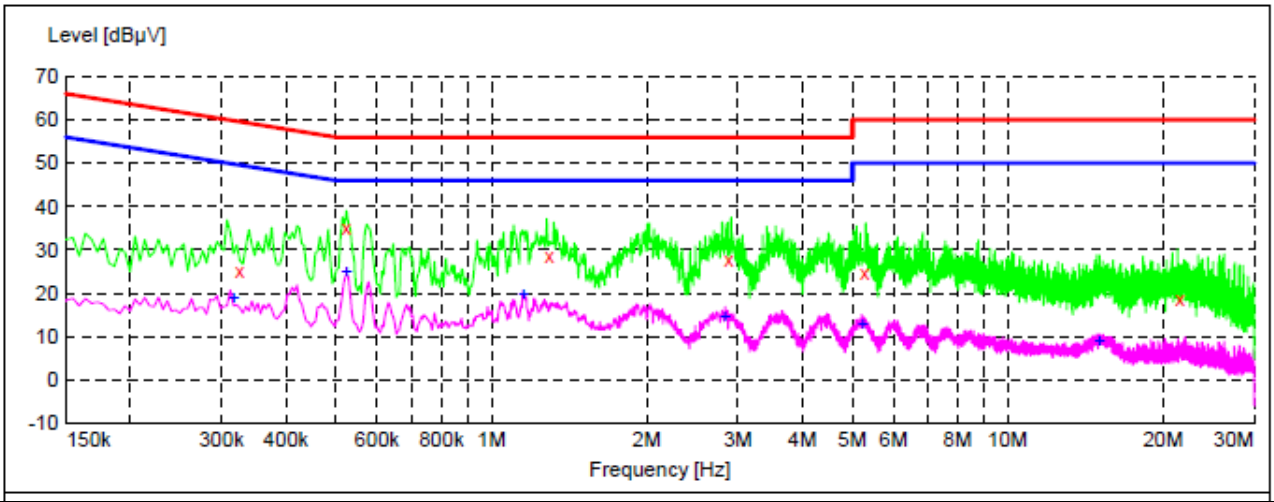


Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.285000	27.70	10.2	61	33.0	QP	N	GND
0.514500	30.50	9.9	56	25.5	QP	N	GND
2.076000	27.90	9.7	56	28.1	QP	N	GND
4.434000	25.90	9.7	56	30.1	QP	N	GND
5.194500	25.70	9.8	60	34.3	QP	N	GND
23.793000	17.80	10.1	60	42.2	QP	N	GND

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.312000	19.30	10.2	50	30.6	AV	N	GND
0.523500	25.00	9.9	46	21.0	AV	N	GND
1.158000	19.70	9.7	46	26.3	AV	N	GND
2.782500	15.30	9.7	46	30.7	AV	N	GND
5.181000	13.20	9.8	50	36.8	AV	N	GND
14.761500	9.10	9.9	50	40.9	AV	N	GND

Note:
1. Margin(dB)= Limit(dBµV) - Level(dBµV)
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.
4. Pre-scan all modes and recorded the worst case results in this report.

Live Line



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.325500	25.30	10.1	60	34.3	QP	L1	GND
0.523500	35.20	9.9	56	20.8	QP	L1	GND
1.293000	28.40	9.7	56	27.6	QP	L1	GND
2.881500	27.70	9.7	56	28.3	QP	L1	GND
5.284500	24.80	9.8	60	35.2	QP	L1	GND
21.529500	18.70	10.3	60	41.3	QP	L1	GND

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316500	19.00	10.2	50	30.8	AV	L1	GND
0.523500	25.00	9.9	46	21.0	AV	L1	GND
1.153500	19.80	9.7	46	26.2	AV	L1	GND
2.827500	14.70	9.7	46	31.3	AV	L1	GND
5.226000	13.20	9.8	50	36.8	AV	L1	GND
15.036000	9.30	9.9	50	40.7	AV	L1	GND

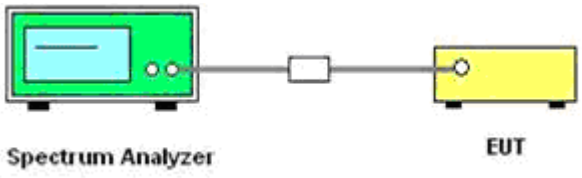
Note:
1. Margin(dB)= Limit(dBµV) - Level(dBµV)
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.
4. Pre-scan all modes and recorded the worst case results in this report.

5.7. Undesirable Emissions Measurement

5.7.1. Limit

According to §15.407 (b) Undesirable emission limits. Except as shown in paragraph (b) (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(a) 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.
(b) For transmitters operating in the 5.25-5.35 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.
(c) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(d) For transmitters operating in the 5.725-5.85 GHz band:
(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
(e) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
(f) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
(g) The provisions of §15.205 apply to intentional radiators operating under this section.
(h) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

5.7.2. Block Diagram of Test Setup



5.7.3. Test Procedure

1. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz
4. Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)

5. Manually set sweep time ≥ 10 × (number of points in sweep) × (total on/off period of the transmitted signal).
6. Set detector = Peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.

5.7.4. Test Results

Pass

Remark:
1. Measured unwanted emission at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss.
3. For MIMO with CCD technology device:
   Directional gain = 10 log[(10G1 /10 + 10G2 /10 + … + 10GN /10)/NANT] dBi,where antenna gains given by G1, G2, …, GN dBi, NANT is the antennas total Number.
4. E.I.R.P = Conducted power + Directional Gain.
5. Please refer to Appendix D of Appendix Test Data for RLAN(5.8G) for test data.

5.8. Antenna Requirements

5.8.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

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

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.8.2. Antenna Connector Construction

The directional gains of antenna refer to section 1.3, and the antenna is an internal antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

5.8.3. Results

Compliance

5.9. Frequency Stability

5.9.1. Standard Applicable

According to FCC §15.407(g) “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 user manual.”

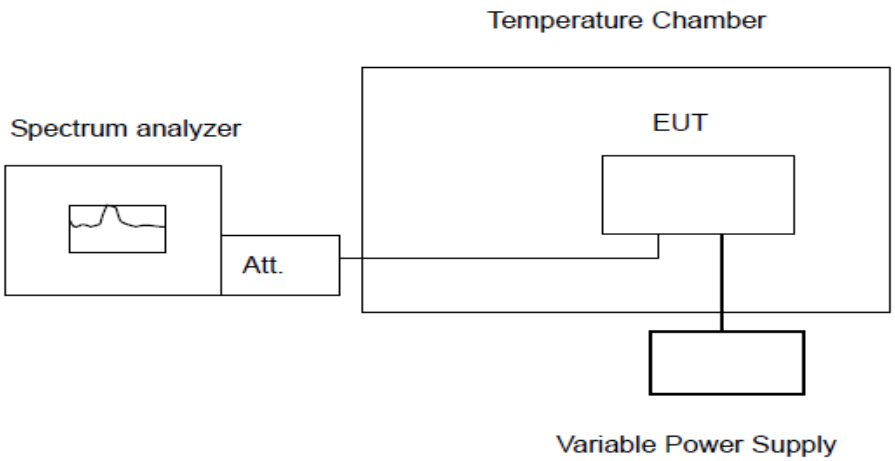
According to FCC §2.1055(a) “The frequency stability shall be measured with variation of ambient temperature as follows:”

(1) From −30° to + 50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

(2) From −20° to + 50° centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radio beacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

(3) From 0° to + 50° centigrade for equipment to be licensed for use in the Radio Broadcast Services under part 73 of this chapter.

5.9.2. Block Diagram of Test Setup



5.9.3. Test Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum anzlyer via feed through attenators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low engouh to obtain the desired frequency resoluation and measure EUT 20 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure wuth 10 degree increased per stage until the highest temperature of +50 degree reached.

5.9.4. 5.9.4 Test Results

PASS

Remark:
1. Measured all conditions and recorded worst case.
2. Please refer to Appendix E of Appendix Test Data for RLAN(5.8G) for test data.

6. LIST OF MEASURING EQUIPMENT

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	MXA Signal Analyzer	Keysight	N9020A	MY52091623	2024-12-31	2025-12-30
2	Power Sensor	Agilent	U2021XA	MY5365004	2024-12-31	2025-12-30
3	Power Meter	Agilent	U2531A	TW53323507	2024-12-31	2025-12-30
4	Loop Antenna	schwarzbeck	FMZB1519B	00023	2022-11-13	2025-11-12
5	Wideband Antenna	schwarzbeck	VULB 9163	958	2022-11-13	2025-11-12
6	Horn Antenna	schwarzbeck	BBHA 9120D	01989	2022-11-13	2025-11-12
7	EMI Test Receiver	R&S	ESCI	100849/003	2024-12-31	2025-12-30
8	Controller	MF	MF7802	N/A	N/A	N/A
9	Amplifier	schwarzbeck	BBV 9743	209	2024-12-31	2025-12-30
10	Amplifier	Tonscend	TSAMP-0518SE	--	2024-12-31	2025-12-30
11	RF Cable(below 1GHz)	HUBER+SUHNER	RG214	N/A	2024-12-31	2025-12-30
12	RF Cable(above 1GHz)	HUBER+SUHNER	RG214	N/A	2024-12-31	2025-12-30
13	Artificial Mains	ROHDE & SCHWARZ	ENV 216	101333-IP	2024-12-31	2025-12-30
14	EMI Test Software	ROHDE & SCHWARZ	ESK1	V1.71	N/A	N/A
15	Amplifier	Chengyi	EMC184045SE	980508	2024-9-20	2025-9-19
16	Horn Antenna	A-INFO	LB-180400-KF	J211020657	2023-10-12	2025-10-11
17	Spectrum Analyzer	R&S	FSV40	101321	2024-06-06	2025-06-05
18	Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2024-12-31	2025-12-30
19	Climate Chamber	KRUOMR	KRM-1000	KRM16072901	2024-12-31	2025-12-30

Test software used:

Item	Test Software	Manufacturer	Name	Version
1	EMI Test Software	ROHDE & SCHWARZ	ESK1	V1.71
2	RE test software	Tonscend	JS32-RE	V5.0.0.0
3	Test Software	Tonscend	JS1120-3	V3.2.22

7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

----------THE END OF REPORT----------