

RF TEST REPORT

Report No.: SHATBL2602001W04

Applicant : Shenzhen Guangqun Communication Technology Co., Ltd.

Product Name : Tablet

Brand Name : POCKAM

Model Name : P10 Kid

Series Model : P10,P10 Pro,P10Plus,P10+,P10 Pro+,P10 Kid+,P10 Max,
P10 Ultra

FCC ID : 2BTXRP10

Test Standard : FCC Part 15 Subpart E §15.407

Date of Sample Arrival : Aug.10, 2025

Date of Test : Aug.10, 2025~Mar.09, 2026

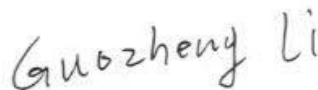
Issue Date : Mar.10, 2026

Report Prepared by :



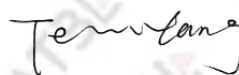
(Emily)

Report Approved by :



(Guozheng Li)

Authorized Signatory :



(Terry Yang)



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DECLARATION OF REPORT

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR 15.407. And it is applicable only to the tested sample identified in the report.
2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.
3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.
4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.
5. In this report, '☐' indicates that EUT does not support content after '☐', and '☑' indicates that it supports content after '☑'

REVISION HISTORY

Rev.	Issue Date	Report No.	Effect Page	Contents
00	Mar.10, 2026	SHATBL2602001W04	ALL	Initial Release

SUMMARY OF TEST RESULT

Standard Section	Test Item	Result	Remark
47 CFR 15.407(a)	Emission Bandwidth(26dBm Bandwidth)	PASS	-
--	Occupied Bandwidth	PASS	Reference only.
47 CFR 15.407(e)	Emission Bandwidth(6dBm Bandwidth)	PASS	-
47 CFR 15.407(a)	Maximum Conducted Output Power	PASS	-
47 CFR 15.407(a)	Power Spectral Density	PASS	-
47 CFR 15.407(g)	Frequency Stability	PASS	-
47 CFR 15.407(b) &15.209(a)	Undesirable emission	PASS	-
47 CFR 15.407(b)/15.209(a)/15.205(a)	Radiated Emissions	PASS	-
47 CFR 15.203	Antenna Requirement	PASS	-
47 CFR 15.207(a)	AC Power Conducted Emission	PASS	-
47 CFR 15.207(h)	Transmit Power Control	N/A	-

Remark: 'N/A' denotes test is not applicable in this Test Report.

1. General Description

1.1. Applicant

Name : Shenzhen Guangqun Communication Technology Co., Ltd.
Address : Room 537Z, 5th Floor, Building 522, Bagualing Industrial Zone, Futian District, Shenzhen.

1.2. Manufacturer

Name : Shenzhen Guangqun Communication Technology Co., Ltd.
Address : Room 537Z, 5th Floor, Building 522, Bagualing Industrial Zone, Futian District, Shenzhen.

1.3. Factory

Name : Shenzhen Guangqun Communication Technology Co., Ltd.
Address : Room 537Z, 5th Floor, Building 522, Bagualing Industrial Zone, Futian District, Shenzhen.

1.4. General Information of EUT

Equipment Name	Tablet
Model Name	P10 Kid
Series model	P10,P10 Pro,P10Plus,P10+,P10 Pro+,P10 Kid+,P10 Max,P10 Ultra
Model Difference	The only differences are in model naming, color, and memory, while all other aspects remain the same.
Sample No.	202512026007
Power supply	DC 3.87V
Adapter	Input:AC100-240V~50/60Hz 0.3A Output:5.0V= 2.0A 10.0W
Battery	DC DC 3.87V 7000mAh
Hardware Version	W30-T30-V1.0
Software Version	P10 Kid-EEA-Android16.0-20261205
Antenna Type	FPC Antenna
Antenna Gain	1.11dBi
Connecting I/O Port(s)	Refer to the remark below

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5. Equipment Specification

Equipment Specification		
Frequency Range	5150 ~ 5250MHz;5745 ~ 5825MHz;	
Maximum Output Power To Antenna	☒ 802.11a:	13.17dBm
	☒ 802.11n(HT)20:	13.62dBm
	☒ 802.11n(HT)40:	12.91dBm
	☒ 802.11ac(VHT)20:	13.50dBm
	☒ 802.11ac(VHT)40:	12.98dBm
	☒ 802.11ac(VHT)80:	12.91dBm
Type of Modulation	☒ 802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM)	
	☒ 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	
TX Power Control (TPC)	☐ Supported	
	☒ No Supported	
Type of Device	☐ Master	
	☒ Client Without Radar Detection	
	☐ Client With Radar Detection	

1.6. Modification of EUT

No modifications are made to the EUT during all test items.

1.7. Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	Building 8, No.160 Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone	:	+86(0)21-51298625
FCC-Registration Number	:	485917
Designation Number	:	CN1306
A2LA Number	:	6184.01
CNAS Number	:	CNAS L14531
ISED Designation Number	:	27371
CAB identifier	:	CN0116

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

47 CFR Part 15 Subpart E §15.407

FCC KDB789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

ANSI C63.10-2020+Cor 1-2023

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of EUT

2.1. Carrier Frequency Channel

Frequency Band	Bandwidth	Channel	Frequency MHz	Channel	Frequency MHz
U-NII-1	20 MHz	36	5180	40	5200
		44	5220	48	5240
	40 MHz	38	5190	46	5230
	80 MHz	42	5210	--	--
U-NII-3	20 MHz	149	5745	153	5765
		157	5785	161	5805
		165	5825	--	--
	40 MHz	151	5755	159	5795
	80 MHz	155	5775	--	--

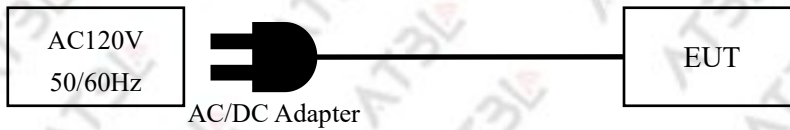
2.2. Test Modes

Final test modes are considering the modulation and worse data rates as below table.

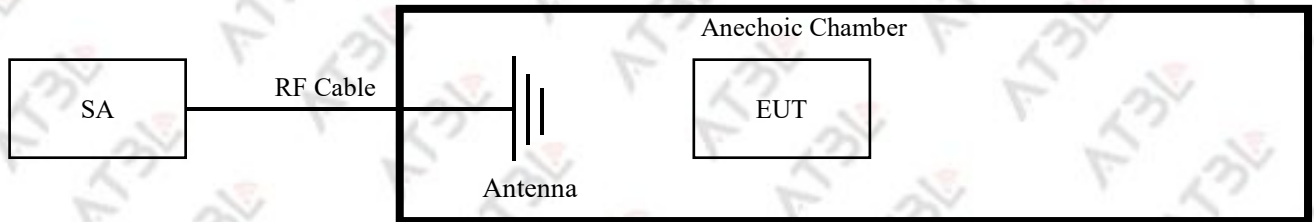
Summary Table of Test Channel			
Test Item	Mode	Frequency Band	Channel
For Conducted and Radiated Test	☑802.11a:	U-NII-1	36 44 48
	☑802.11n(HT)20:		
	☑802.11ac(VHT)20:	U-NII-3	149 157 165
	☑802.11n(HT)40:	U-NII-1	38 46
	☑802.11ac(VHT)40:	U-NII-3	151 159
	☑802.11ac(VHT)80:	U-NII-1	42
		U-NII-3	155
For AC Power-line Conducted Emission	802.11n20:Channel 36_5180MHz		

2.3. Block Diagram of Test System

2.3.1. For AC Power-Line Conducted Emission

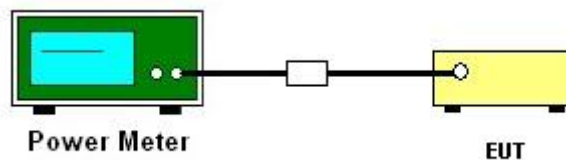


2.3.2. For Radiated Spurious Emission

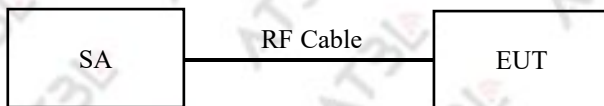


2.3.3. For Conducted Test

Power:



Other:



2.4. Description of Support Units

NO.	Unit	Brand	Model	Description
1	RF Cable	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A

2.5. Test Software and Power Level

During the test, the channel and power control software provided by the customer is used to control the operation channel and output power level.

2.6. EUT Operating Conditions

For AC power-line conducted emission, the EUT was connected under the large package sizes transmission.

For radiated spurious emission and conducted test, the engineering test program was provided and make the EUT to continuous transmit.

2.7. Equipment List

2.7.1. For AC Power-Line Conducted Emission

Kind of Equipment	Manu facturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
EMI Test Receiver	R&S	ESPI	100679	SHATBL-E012	2025.03.17	2026.03.16	1 year
LISN	R&S	ENV216	101300	SHATBL-E013	2025.03.17	2026.03.16	1 year
LISN	R&S	ENV216	100333	SHATBL-E041	2025.03.17	2026.03.16	1 year
CE Cable	Chuangce xing	2M	EMI0014	SHATBL-E014	N/A	N/A	N/A
Temperature & Humidity	Deli	Deli	EMI0015	SHATBL-E015	2025.08.01	2026.07.31	1 year
Testing Software	FALA	EZ-EMC(V er.EMC-C ON 3A1.1)	EMI0044	SHATBL-E044	N/A	N/A	N/A

2.7.2. For Radiated Spurious Emission

Kind of Equipment	Manu facturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
Signal analyzer	Agilent	N9020A	MY50200811	SHATBL-E017	2025.03.17	2026.03.16	1 year
Amplifier	JPT	JPA0118-5 5-303A	1910001800055 000	SHATBL-E006	2025.03.24	2026.03.23	1 year
Amplifier	JPT	JPA-10M1 G32	2101010003500 1	SHATBL-E005	2025.03.17	2026.03.16	1 year
Antenna/Turn table Controller	Brilliant	N/A	N/A	SHATBL-E007	N/A	N/A	N/A
Loop Antenna(9kHz-30 MHz)	Daze	ZN30900C	20077	SHATBL-E042	2025.05.13	2026.05.12	1 year
Bilog Antenna	SCHWAR ZBECK	VULB 9168	01174	SHATBL-E008	2025.05.20	2026.05.19	1 year
Broad-band Horn Antenna	SCHWAR ZBECK	BBHA 9120D	02334	SHATBL-E009	2025.05.20	2026.05.19	1 year
Horn Antenna	COM-PO WER	AH-1840	10100008	SHATBL-E043	2025.07.27	2026.07.26	1 year
Thermometer	DeLi	N/A	N/A	SHATBL-E015	2025.08.01	2026.07.31	1 year
Test Software	FALA	EMC-RI(V er.4A2)	N/A	N/A	N/A	N/A	N/A
Wideband radio communication tester	R&S	CMW500	101331	SHATBL-W044	2025.07.28	2026.07.27	1 year
Spectrum analyzer	R&S	FSV40-N	101761	SHATBL-W036	2025.07.28	2026.07.27	1 year

2.7.3. For Conducted Test

Kind of Equipment	Manu facturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
Power sensor	DARE	RPR3006 W	16I00054SN016	SHATBL-W008	2025.07.28	2026.07.27	1 year
Adjustable Attenuator	Agilent	8494B	MY42144015	SHATBL-W009	2025.07.28	2026.07.27	1 year
Adjustable Attenuator	Agilent	8496B	MY42143776	SHATBL-W010	2025.07.28	2026.07.27	1 year
Environmental Test Chamber	KSON	THS-B6C- 150	9159K	SHATBL-W019	2025.03.17	2026.03.16	1 year
Signal analyzer	Keysight	N9020A	MY50510136	SHATBL-W003	2025.07.18	2026.07.17	1 year
Vector signal generator	Agilent	N5182A	MY48180764	SHATBL-W043	2025.07.18	2026.07.17	1 year
Analog signal generator	Keysight	N5182B	MY57300196	SHATBL-W005	2025.07.18	2026.07.17	1 year
Wideband radio communication tester	R&S	CMW500	101331	SHATBL-W007	2025.07.28	2026.07.27	1 year
Switch Box	Cesheng	smu 1003	WCS20221215	SHATBL-W046	2025.03.19	2026.03.18	1 year
Thermometer	DeLi	N/A	N/A	SHATBL-W011	2025.08.01	2026.07.31	1 year
Test Software	Cesheng	WCS-WC N	N/A	SHATBL-W021	N/A	N/A	N/A

Remark:

Calibration duration for above equipments is 1 year.

2.8. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item		Uncertainty
1	Conducted Output Power		1.27dB
2	Power spectral density		1.28dB
3	Conducted Frequency Stability		10.14Hz
4	Conducted spurious emissions		1.73dB
5	RF Cable Loss		1.22dB
6	Radiated Spurious Emission 9KHz-30MHz		2.35dB
7	Radiated Spurious Emission 30MHz-1GHz		2.59dB
8	Radiated Spurious Emission 1GHz-18GHz		2.62dB
9	Radiated Spurious Emission 18GHz - 40GHz		2.80dB
10	Occupied bandwidth		23.20Hz
11	Conducted Emissions	9kHz ~ 150kHz	3.4dB
		150kHz ~ 30MHz	3.73dB

2.9 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature	Normal Temperature:	22°C
Voltage	Normal Voltage:	DC 3.87V
Other	Relative Humidity:	57%
	Air Pressure:	102kPa

3. Test Result

3.1. Emission Bandwidth

3.1.1. Limit

N/A

3.1.2. Test Procedure

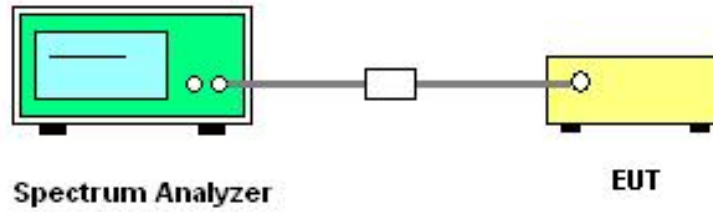
Emission Bandwidth:

- 1).Set RBW = approximately 1% of the emission bandwidth.
- 2).Set the video bandwidth (VBW) > RBW.
- 3).Detector = Peak.
- 4).Trace mode = Max hold.
- 5).Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

99% Occupied Bandwidth:

- 1).Set center frequency to the nominal EUT channel center frequency.
- 2).Set span = 1.5 times to 5.0 times the OBW.
- 3).Set RBW = 1% to 5% of the OBW
- 4).Set VBW $\geq$ 3 RBW
- 5).Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6).Use the 99% power bandwidth function of the instrument (if available). If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

3.1.3. Test Setup



3.1.4. Test Result

Please refer to the Appendix D1.

3.2. Minimum Emission Bandwidth for the band 5.725–5.85 GHz

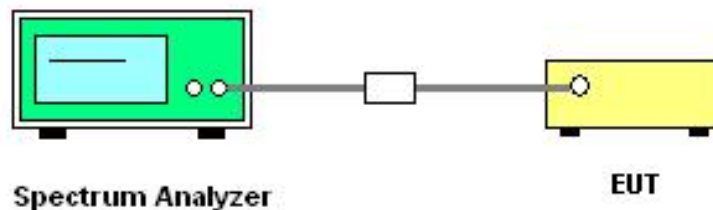
3.2.1. Limit

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725-5.85 GHz

3.2.2. Test Procedure

- 1).Set resolution bandwidth (RBW) = 100 kHz
- 2).Set the video bandwidth 3 x RBW.
- 3).Detector = Peak.
- 4).Trace mode = Max hold.
- 5).Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.2.3. Test Setup



3.2.4. Test Result of Minimum Emission Bandwidth

Please refer to the Appendix D2.

3.3. Maximum Conducted Average Output Power

3.3.1. Limit

For the band 5.15-5.25 GHz:

- 1). For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6dBi.
- 2). For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6dBi.
- 3). For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
- 4). For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the
- 5). frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi.
- 6). If transmitting antennas of directional gain greater than 6dBi 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 6dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands:

- 1). the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.
- 2). If transmitting antennas of directional gain greater than 6dBi 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 6dBi.

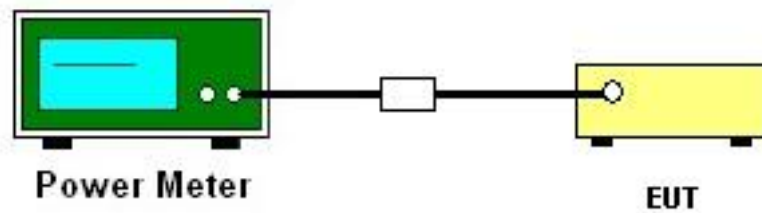
For the band 5.725-5.85 GHz:

- 1). the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
- 2). If transmitting antennas of directional gain greater than 6dBi 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 6dBi.

3.3.2. Test Procedure

KDB 789033D02v02r01- Section E)3)b) Method PM-G.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

**3.3.4. Test Result of Maximum Conducted Average Output Power**

Please refer to the Appendix D3.

3.4. Power Spectral Density

3.4.1. Limit

For the band 5.15-5.25 GHz:

- 1). For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17dBm in any 1 MHz band.
- 2). For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17dBm in any 1 MHz band.
- 3). For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23dBi.
- 4). For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 MHz band.
- 5). If transmitting antennas of directional gain greater than 6dBi 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.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands:

- 1). The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.
- 2). If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.725-5.850 GHz bands:

- 1). the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.
- 2). 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.

3.4.2. Test Procedure

- 1). Measure the duty cycle, x , of the transmitter output signal as described in II.B.
- 2). Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- 3). Set RBW = 1 MHz.
- 4). Set VBW $\geq$ 3 MHz.
- 5). Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- 6). Sweep time = auto.
- 7). Detector = averaging, if available. Otherwise, use sample detector mode.

8). Do not use sweep triggering. Allow the sweep to “free run.”

9). Trace mode = averaging.

For U-NII-3 band:

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.

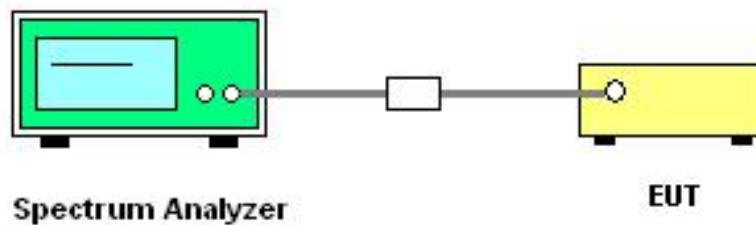
2) Set RBW = 500 kHz, Set VBW $\geq$ 3 RBW, Detector = averaging

3) Sweep time = auto, trigger set to “free run”.

4) Trace mode = averaging.

5) Record the max value

3.4.3. Test Setup



3.4.4. Test Result of Power Spectral Density

Please refer to the Appendix D4.

3.5. Frequency Stability

3.5.1. Limit

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.

3.5.2. Test Procedure

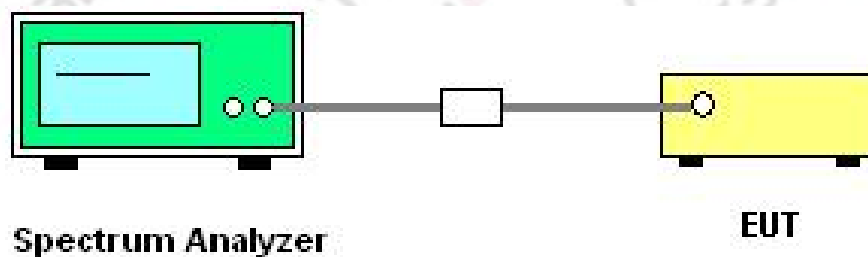
Frequency Stability under Temperature Variations:

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 analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

3.5.3. Test Setup



3.5.4. Test Result of Frequency Stability

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	3.87V	5179.9789	-0.00041	5179.9818	-0.00035	5179.9786	-0.00041	5179.9815	-0.00036
40	3.87V	5179.9856	-0.00028	5179.9886	-0.00022	5179.9873	-0.00025	5179.9901	-0.00019
30	3.87V	5180.0048	0.00009	5180.0028	0.00005	5180.0044	0.00008	5180.0047	0.00009
20	3.87V	5179.9898	-0.00020	5179.9947	-0.00010	5179.9925	-0.00014	5179.9915	-0.00016
10	3.87V	5179.9898	-0.00020	5179.9899	-0.00019	5179.9873	-0.00025	5179.9916	-0.00016
0	3.87V	5180.0095	0.00018	5180.0129	0.00025	5180.0114	0.00022	5180.0111	0.00021
-10	3.87V	5179.9775	-0.00043	5179.9766	-0.00045	5179.9762	-0.00046	5179.9791	-0.00040
-20	3.87V	5180.0206	0.00040	5180.0216	0.00042	5180.0221	0.00043	5180.0189	0.00036
-30	3.87V	5180.0186	0.00036	5180.0207	0.00040	5180.0222	0.00043	5180.0202	0.00039

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
20	4.257V	5179.9895	-0.00020	5179.9941	-0.00011	5179.9923	-0.00015	5179.9909	-0.00018
	3.87V	5179.9898	-0.00020	5179.9947	-0.00010	5179.9925	-0.00014	5179.9915	-0.00016
	3.48V	5179.9905	-0.00018	5179.9944	-0.00011	5179.9921	-0.00015	5179.9915	-0.00016

Criterion: Pass

3.6. Radiated Spurious Emission and Restricted Band

3.6.1. Limit

47 CFR 15.407(b):The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- 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.
- 2).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.
- 3).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.
- 4).For transmitters operating in the 5.725-5.85 GHz band: 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.

47 CFR 15.209(a): The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (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

3.6.2. Test Procedure

- 1).The testing follows ANSI C63.10-2020+Cor 1-2023 clause 11.11 & 11.12.
- 2).The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3).The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 4).The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5).Corrected Reading: Antenna Factor + Cable Loss + Read Level - Pre-amp Factor = Level.
- 6).For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7).For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Use the following spectrum analyzer settings:

Span shall wide enough to fully capture the emission being measured;

When frequency < 1 GHz:

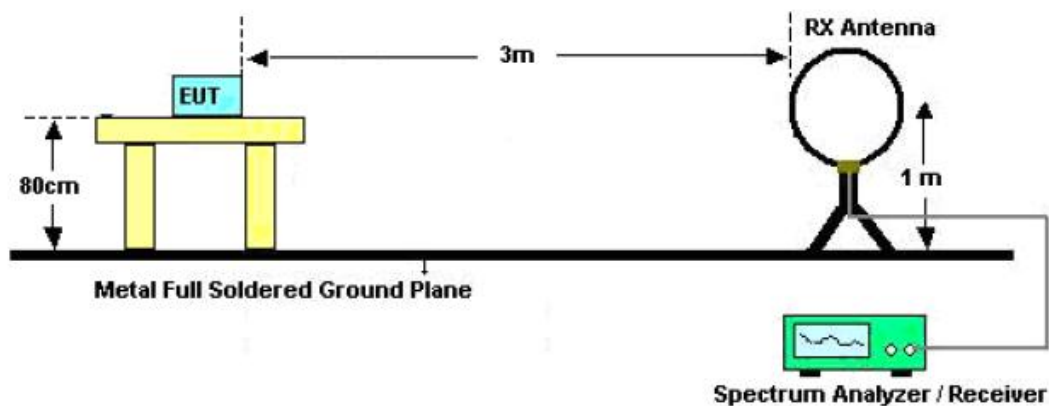
- Set RBW=100 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;

When frequency $\geq$ 1 GHz:

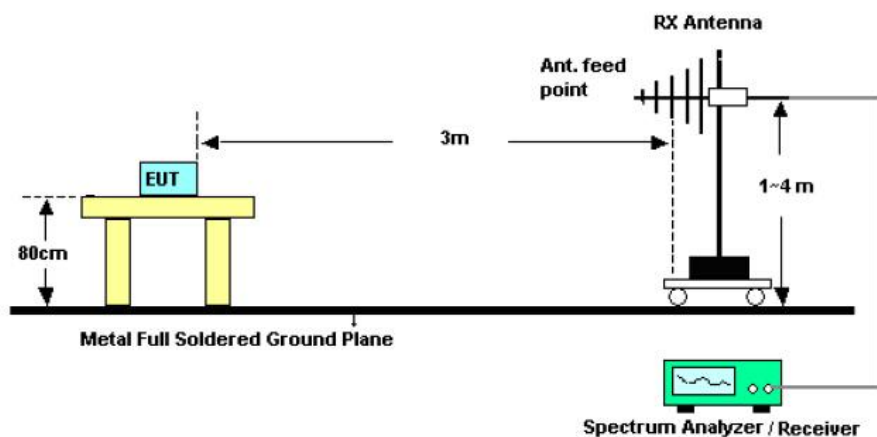
- Set RBW = 1 MHz; VBW = 3 MHz for peak measurement;
- Set RBW = 1 MHz; VBW = 10 Hz, when duty cycle is no less than 98 percent or VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.6.3. Test Setup

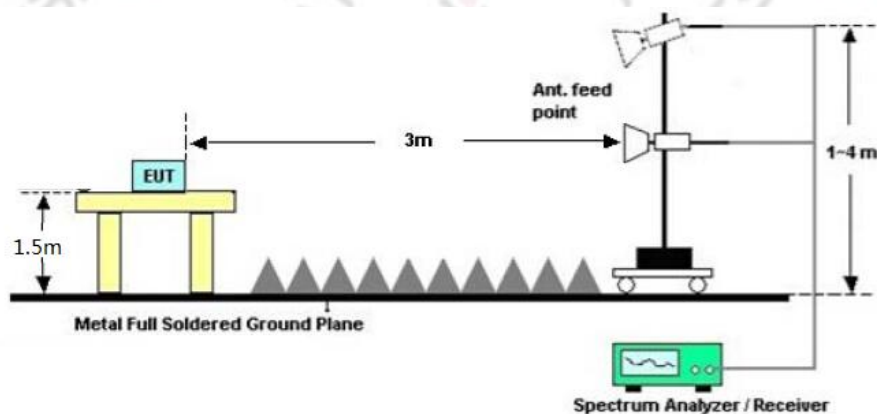
3.6.3.1. For radiated emissions below 30MHz



3.6.3.2. For radiated emissions from 30MHz to 1GHz



3.6.3.3. For radiated emissions above 1GHz



3.6.4. Test Result of Radiated Spurious Emission

3.6.4.1. For 9 kHz ~ 30 MHz

Please refer to the Appendix E.

3.6.4.2. For 30 MHz ~ 1 GHz

Please refer to the Appendix E.

3.6.4.3. For 1 GHz ~ 18GHz

Please refer to the Appendix E.

3.6.4.4. For above 18GHz

Please refer to the Appendix E.

3.6.5. Test Result of Restricted Band

Please refer to the Appendix E.

3.7. AC Power-Line Conducted Emission

3.8.1.Limit

47 CFR 15.207(a): For an intentional radiator that 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 the limits in the following table:

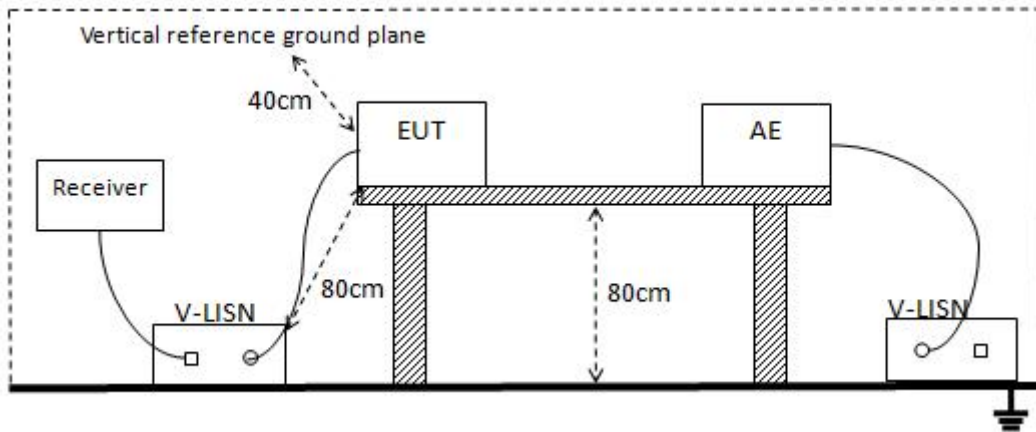
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.8.2.Test Procedure

- 1).The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2).Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3).All the support units are connecting to the other LISN.
- 4).The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5).The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6).Both sides of AC line were checked for maximum conducted interference.
- 7).The frequency range from 150 kHz to 30 MHz was searched.
- 8).Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.8.3.Test Setup



3.8.4.Test Result of AC Power-Line Conducted Emission

Please refer to the Appendix E.

3.8. Antenna Requirement

3.10.1.Standard Requirement

According to 47 CFR 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.

3.10.2.EUT Antenna

The antenna used for the EUT is FPC Antenna, which meets the antenna requirements.

4. Test Setup Photographs

Please refer to the Appendix J.

5. External And Internal Photos of The EUT

External Please refer to the Appendix K.

Internal Please refer to the Appendix K.

*****END OF THE REPORT*****