

TEST REPORT

Report No.: SHATBL2511018W01

Applicant : Fanlight Corporation, Inc.

Product Name : Remote/NFC Programmer

Brand Name : SyncMesh

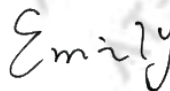
Model Name : SYNC-RP01

FCC ID : 2BT4K-3603

Test Standard : FCC 47 CFR Part 15 Subpart C §15.247

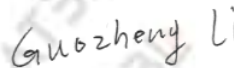
Date of Test : 2025.11.24~2026.03.04

Report Prepared by :



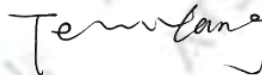
(Emily)

Report Approved by :



(Guozheng Li)

Authorized Signatory :



(Terry Yang)



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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised by
00	2026.03.04	Initial Release	Guozheng Li

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 FCC 47 CFR Part 15 Subpart C §15.247. 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 '☑'

SUMMARY OF TEST RESULT

Report Section	Standard Section	Test Method	Test Item	Judgment	Remark
3.1	47 CFR 15.247(b)(3)	ANSI C63.10-2020 Section 11.9.1.2 Clause 4.4	Maximum Peak Conducted Output Power	PASS	--
3.2	--	ANSI C63.10-2020 Section 11.6 Clause 4.3	Duty Cycle	Report only	--
3.3	47 CFR 15.247(a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3 Clause 4.5	6 dB Bandwidth & 99% Occupied Bandwidth	PASS	--
3.4	47 CFR 15.247(e)	ANSI C63.10-2020 Section 11.10.2 Clause 4.6	Power Spectral Density	PASS	--
3.5	47 CFR 15.247(d)	ANSI C63.10-2020 Section 11.11 Clause 4.7	Conducted Band Edges	PASS	--
3.6	47 CFR 15.247(d)	ANSI C63.10-2020 Section 11.11 Clause 4.8	Conducted Spurious Emission	PASS	--
3.7	47 CFR 15.247(d) 15.209(a) 15.205(a)	ANSI C63.10-2020 Section 11.12 Clause 4.9& Clause 4.10	Radiated Spurious Emission and Restricted Band	PASS	--
3.8	47 CFR 15.207(a)	ANSI C63.10-2020 Section 6.2 Clause 4.2	AC Power-Line Conducted Emission	N/A	Note(1)
3.9	47 CFR 15.203 15.247(b)	--	Antenna Requirements	PASS	--

Note(1): This device is powered by dry batteries, so this test item does not need to be tested.

1. GENERAL DESCRIPTION

1.1. Applicant

Name : Fanlight Corporation, Inc.

Address : 2000 S Grove Ave Building B, Ontario, California, United States

1.2. Manufacturer

Name : Fanlight Corporation, Inc.

Address : 2000 S Grove Ave Building B, Ontario, California, United States

1.3. General Information of EUT

General Information	
Equipment Name	Remote/NFC Programmer
Brand Name	SyncMesh
Model Name	SYNC-RP01
Series Model	N/A
Model Difference	N/A
Sample No.	202511180014002
Power Input	DC 5V by 3xAA Batteries
Adapter	N/A
Battery	N/A
Hardware Version	CNCC-RC V1.0
Software Version	v1.0.0
Operating Temperature Range	0 ~ +40℃
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.

1.4. Equipment Specification

Equipment Specification			
Frequency Range	802.11b/g/n(HT20):	2412 MHz ~ 2462 MHz	
	802.11n(HT40):	2422 MHz ~ 2452 MHz	
Maximum (Peak) Output Power To Antenna	☒ 802.11b:	8.41 dBm (0.00693 W)	
	☒ 802.11g:	8.05 dBm (0.00638 W)	
	☒ 802.11n(HT)20:	8.65 dBm (0.00733 W)	
	☒ 802.11n(HT)40:	8.50 dBm (0.00708 W)	
99% Occupied Bandwidth	☒ 802.11b:	12.972 MHz	
	☒ 802.11g:	16.645 MHz	
	☒ 802.11n(HT)20:	17.719 MHz	
	☒ 802.11n(HT)40:	36.497 MHz	
Type of Modulation	☒ 802.11b: DSSS (DBPSK/DQPSK/CCK)		
	☒ 802.11g/n(HT): OFDM (BPSK/QPSK/16QAM/64QAM)		
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7		
Channel Spacing:	5MHz		
Antenna Information	☒ SISO	Antenna Type:	PCB
		Antenna Gain:	4.87 dBi
	☐ MIMO	Antenna Number:	/
		Antenna Type:	/
		Antenna Gain:	/
		Antenna Technology:	☐ Beamforming ☐ CDD
		Directional Gain:	For Power: /
			For PSD: /

1.5. Modification of EUT

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

1.6. Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	5-6/F., Unit 1, No 8, Free Trade One Life Science No. 160, Basheng Road, Pudong New District, Shanghai, China
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

1.7. 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 C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

Remark:

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

2.This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2. TEST CONFIGURATION OF EUT

2.1. Carrier Frequency Channel

Frequency Band	Channel	Frequency MHz	Channel	Frequency MHz
2412 - 2462MHz	01	2412	07	2442
	02	2417	08	2447
	03	2422	09	2452
	04	2427	10	2457
	05	2432	11	2462
	06	2437		

Remark:

1. For 20 MHz Bandwidth: Low Channel: **CH 01_2412 MHz**; Middle Channel: **CH 06_2437 MHz**; High Channel: **CH 11_2462 MHz**.

2. For 40 MHz Bandwidth: Low Channel: **CH 03_2422 MHz**; Middle Channel: **CH 06_2437 MHz**; High Channel: **CH 09_2452 MHz**.

2.2. Test Modes

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

Summary Table of Test Modes			
Test Item	Mode	Data Rate	Channel
For Conducted and Radiated Test	☒ 802.11b:	1 Mbps	Low, Middle, High
	☒ 802.11g:	6 Mbps	Low, Middle, High
	☒ 802.11n(HT)20:	MCS 0	Low, Middle, High
	☒ 802.11n(HT)40:	MCS 0	Low, Middle, High
	☐ 802.11ac(VHT)20:	MCS 0	Low, Middle, High
	☐ 802.11ac(VHT)40:	MCS 0	Low, Middle, High
	☐ 802.11ax(HE)20:	MCS 0	Low, Middle, High
	☐ 802.11ax(HE)40:	MCS 0	Low, Middle, High
For AC Power-line Conducted Emission	Mode 1 :Working Mode		

Remark:

All the test modes of Radiated Spurious Emission (RSE) were tested at the worst data rate; only the worse data shown in report.

2.3. Block Diagram of Test System

2.3.1. For Radiated Spurious Emission



2.3.2. For Conducted Test



2.4. Description of Support Units

NO.	Unit	Brand	Model	Description
1	Notebook	Lenovo	DESKTOP-USDEO09	N/A
2	USB Cable	N/A	100cm	N/A

2.5. EUT Operating Conditions

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

2.6. Equipment List

2.6.1. For Conducted Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
Power sensor	DARE	RPR3006W	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

2.6.2. For Radiated Spurious Emission

Kind of Equipment	Manufacturer	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	JPA0118-55-303A	1910001800055000	SHATBL-E006	2025.03.24	2026.03.23	1 year
Amplifier	JPT	JPA-10M1G32	21010100035001	SHATBL-E005	2025.03.17	2026.03.16	1 year
Antenna/Turntable 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	SCHWARZBECK	VULB 9168	01174	SHATBL-E008	2025.05.20	2026.05.19	1 year
Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	02334	SHATBL-E009	2025.05.20	2026.05.19	1 year
Horn Antenna	COM-POWER	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(Ver.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. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended 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

3. TEST RESULT

3.1. Maximum Peak Conducted Output Power

3.1.1. Limit

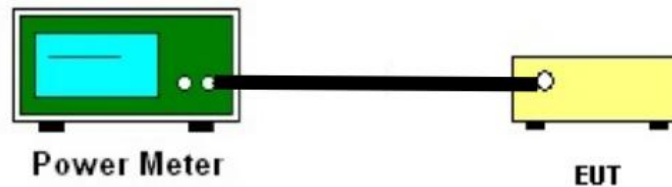
For DTS employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W(30dBm). The e.i.r.p. shall not exceed 4 W(36dBm).

3.1.2. Test Procedure

A peak power sensor was used on the output port of the EUT.

A peak power meter was used to read the response of the peak power sensor. Record the peak power level.

3.1.3. Test Setup



3.1.4. Test Result

Please refer to the Appendix A1.

3.2. Duty Cycle

3.2.1. Limit

There is no limit requirement for Duty Cycle.

3.2.2. Test Procedure

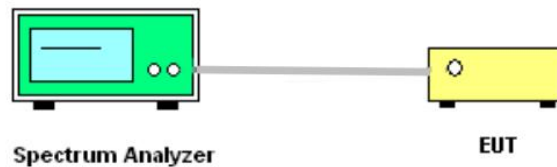
ANSI C63.10-2020 clause 11.6: Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

1. A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.

2. The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- ① Set the center frequency of the instrument to the center frequency of the transmission.
- ② Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- ③ Set $VBW \geq RBW$. Set detector = peak or average.
- ④ The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

3.2.3. Test Setup



3.2.4. Test Result

Please refer to the Appendix A1.

3.3. 6dB Bandwidth and 99% Bandwidth

3.3.1. Limit

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

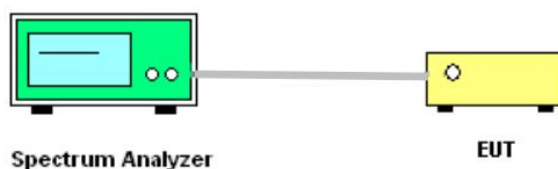
There is no limit requirement for 99% Bandwidth.

3.3.2. Test Procedure

The testing of 6dB Bandwidth follows ANSI C63.10-2020 clause 11.8.1: The steps for the first option are as follows:

- ① Set RBW = shall be in the range of 1% to 5% of the OB W but not less than 100 kHz.
- ② Set the VBW $\geq [3 \times \text{RBW}]$.
- ③ Detector = peak.
- ④ Trace mode = max hold.
- ⑤ Sweep = auto couple.
- ⑥ Allow the trace to stabilize.
- ⑦ MMeasure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.

3.3.3. Test Setup



3.3.4. Test Result

Please refer to the Appendix A1.

3.4. Power Spectral Density

3.4.1. Limit

47 CFR 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

3.4.2. Test Procedure

ANSI C63.10-2020 clause 11.10.2: The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to 3 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.

3.4.3. Test Setup



3.4.4. Test Result

Please refer to the Appendix A1.

3.5. Conducted Band Edges and Spurious Emission

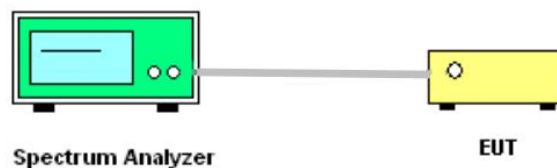
3.5.1. Limit

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

3.5.2. Test Procedure

1. The testing follows ANSI C63.10-2020 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.5.3. Test Setup



3.5.4. Test Result

Please refer to the Appendix A1.

3.6. Radiated Band Edges and Spurious Emission Measurement

3.6.1. Limit

47 CFR 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

47 CFR 15.205(a): Only spurious emissions are permitted in any of the frequency bands listed below:

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090-0.110	12.29-12.293	149.9-150.05	1660-1710	8.025-8.5
0.495-0.505	12.51975-12.52025	156.52475-156.52525	1718.8-1722.2	9.0-9.2
2.1735-2.1905	12.57675-12.57725	156.7-156.9	2200-2300	9.3-9.5
4.125-4.128	13.36-13.41	162.0125-167.17	2310-2390	10.6-12.7
4.17725-4.17775	16.42-16.423	167.72-173.2	2483.5-2500	13.25-13.4
4.20725-4.20775	16.69475-16.69525	240-285	2690-2900	14.47-14.5
6.215-6.218	16.80425-16.80475	322-335.4	3260-3267	15.35-16.2
6.26775-6.26825	25.5-25.67	399.9-410	3332-3339	17.7-21.4
6.31175-6.31225	37.5-38.25	608-614	3345.8-3358	22.01-23.12
8.291-8.294	73-74.6	960-1240	3600-4400	23.6-24.0
8.362-8.366	74.8-75.2	1300-1427	4500-5150	31.2-31.8
8.37625-8.38675	108-121.94	1435-1626.5	5350-5460	36.43-36.5
8.41425-8.41475	123-138	1645.5-1646.5	7250-7750	Above 38.6

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

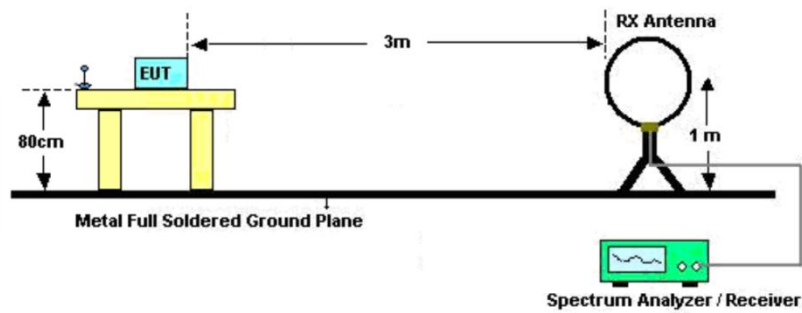
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

3.6.2. Test Procedure

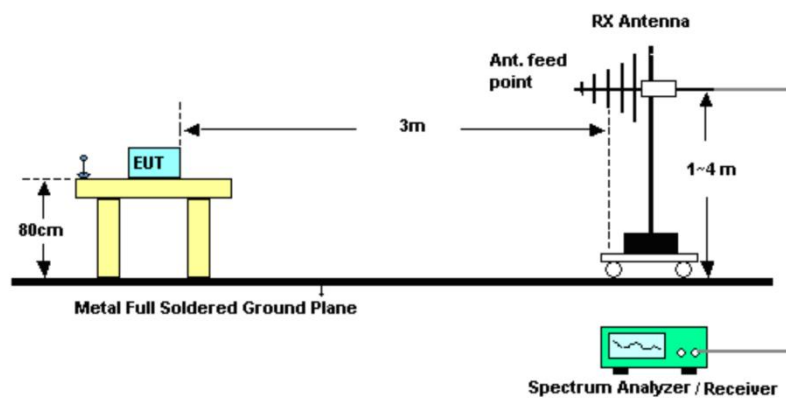
1. The testing follows ANSI C63.10-2020 clause 11.11 & 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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.
8. Use the following spectrum analyzer settings:
 - ① Span shall wide enough to fully capture the emission being measured;
 - ② When frequency < 1 GHz:
 - Set RBW=100 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - ③ 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

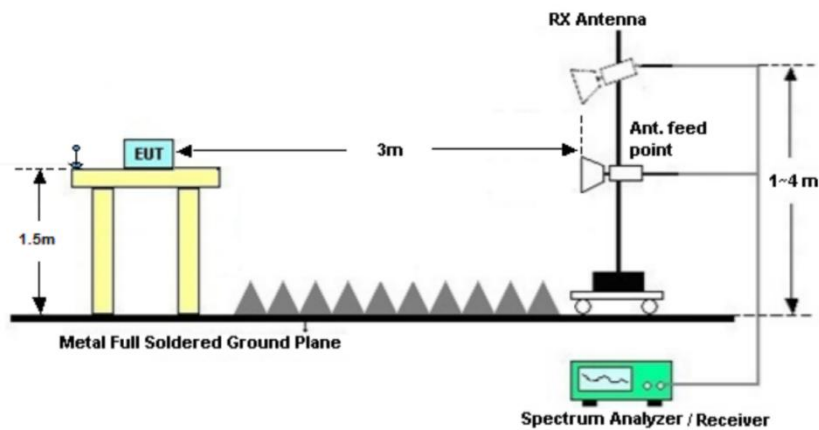
3.6.3.1. For radiated emissions below 30MHz



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

Please refer to the Appendix A1.

3.7. AC Power-Line Conducted Emission

3.7.1. 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:

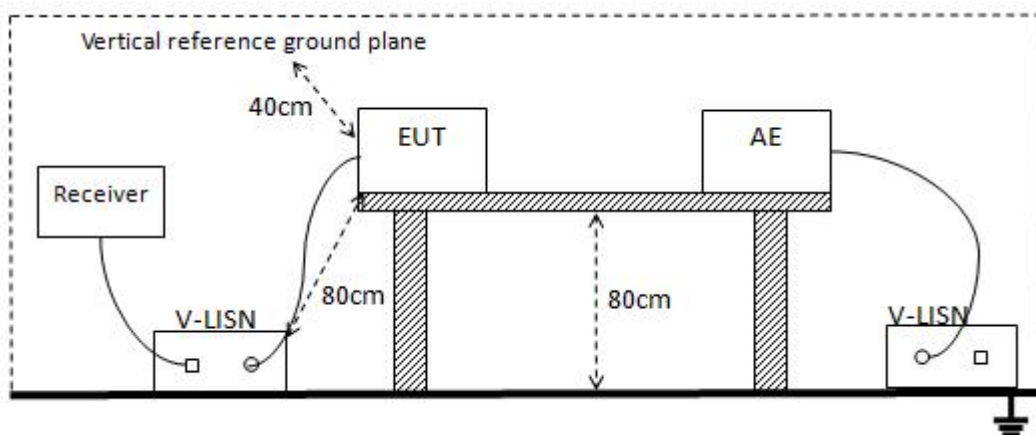
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.7.2. 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.

3.7.3. Test Setup



3.7.4. Test Result

Note: This test item is not applicable.

3.8. Antenna Requirement

3.8.1. Standard Requirement

According to 47 CFR 15.203, If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.8.2. EUT Antenna

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

4. APPENDIX

Appendix A1	Test Data
Appendix B	Setup Photos
Appendix C1	External Photos
Appendix C2	Internal Photos

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