



FCC TEST REPORT

For

FIVE PLUS INTELLIGENT PRODUCTS CO., LIMITED

SolarCam D1 Lite

Test Model: PPnest SolarCam P1

Prepared for : FIVE PLUS INTELLIGENT PRODUCTS CO., LIMITED
Address : FLAT 1512 15F LUCKY CENTRE NO.165-171 WANCHAI ROAD
WAN CHAI HONG KONG

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : January 08, 2024
Number of tested samples : 2
Sample number : A231229048-1, A231229048-2
Serial number : Prototype
Date of Test : January 08, 2024 ~ January 17, 2024
Date of Report : January 17, 2024



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**FCC TEST REPORT**
FCC CFR 47 PART 15 C(15.247)**Report Reference No.** : **LCSA12293275EB****Date of Issue** : January 17, 2024**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address** : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China**Testing Location/ Procedure** : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name** : **FIVE PLUS INTELLIGENT PRODUCTS CO., LIMITED****Address** : FLAT 1512 15F LUCKY CENTRE NO.165-171 WANCHAI ROAD
WAN CHAI HONG KONG**Test Specification****Standard**..... : FCC CFR 47 PART 15 C(15.247)**Test Report Form No.** : LCSEMC-1.0**TRF Originator**..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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EUT Description. : **SolarCam D1 Lite****Trade Mark**..... : N/A**Test Model**..... : PPnest SolarCam P1**Ratings** : Input: DC 5V, 1A
DC 3.7V by Rechargeable Li-ion Battery, 5Ah**Result** : **Positive****Compiled by:**

Vera Deng/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager



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**FCC -- TEST REPORT**

Test Report No. :	LCSA12293275EB	<u>January 17, 2024</u> Date of issue
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EUT.....	: SolarCam D1 Lite
Test Model.....	: PPnest SolarCam P1
Applicant.....	: FIVE PLUS INTELLIGENT PRODUCTS CO., LIMITED
Address.....	: FLAT 1512 15F LUCKY CENTRE NO.165-171 WANCHAI ROAD WAN CHAI HONG KONG
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Zhiling Technology Co., Ltd
Address.....	: Room 201, Building A, No.1 Qianwan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /
Factory.....	: Shenzhen Zhiling Technology Co., Ltd
Address.....	: Room 201, Building A, No.1 Qianwan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	January 17, 2024	Initial Issue	---

Note: At the request of the customer, this report is based on test data reported (LCSA120922018EB). Change the applicant of the original report (LCSA120922018EB), model, trademark, Conducted Emissions, Radiated Emissions and add factory information.

The changes are as follows:

1. Change applicant: FIVE PLUS INTELLIGENT PRODUCTS CO., LIMITED
2. Change applicant address: FLAT 1512 15F LUCKY CENTRE NO.165-171 WANCHAI ROAD WANCHAI HONG KONG
3. Change trademark: N/A
4. Change model: PPnest SolarCam P1
5. Add factory: Shenzhen Zhiling Technology Co., Ltd
6. Add factory address: Room 201, Building A, No.1 Qianwan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong, China
7. Change the number of camera light beads and the corresponding internal board
8. Change the appearance color



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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : SolarCam D1 Lite
Test Model : PPnest SolarCam P1
Power Supply : Input: DC 5V, 1A
DC 3.7V by Rechargeable Li-ion Battery, 5Ah
Hardware Version : V1.1
Software Version : V2.1.6

Bluetooth

Frequency Range : 2402MHz-2480MHz
Bluetooth Channel Number : 40 channels for Bluetooth V5.0 (DTS)
Bluetooth Channel Spacing : 2MHz for Bluetooth V5.0 (DTS)
Bluetooth Modulation Type : GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version : V5.0
Antenna Description : External Antenna, 3.2dBi(Max.)

2.4G WLAN

Frequency Range : 2412 – 2462 MHz
Channel Number : 11 Channels for 20MHz bandwidth (2412~2462MHz)
Channel Spacing : 5MHz
Modulation Type : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)
IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description : External Antenna, 3.2dBi(Max.)



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1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
--	ADAPTER	THX-120050KB	--	FCC

Note: Auxiliary equipment is provided by the laboratory.

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. 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 LCS 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.

1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	±3.10dB	(1)
	30MHz~200MHz	±2.96dB	(1)
	200MHz~1000MHz	±3.10dB	(1)
	1GHz~26.5GHz	±3.80dB	(1)
	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	±1.63dB	(1)
Power disturbance	30MHz~300MHz	±1.60dB	(1)

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



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1.7. 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 Y position.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case;

AC conducted emission pre-test at both at power adapter and power from PC modes, recorded worst case;

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be IEEE 802.11b mode (High Channel).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was determined to be IEEE 802.11b mode (High Channel).

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

IEEE 802.11b Mode: 1 Mbps, DSSS.

IEEE 802.11g Mode: 6 Mbps, OFDM.

IEEE 802.11n Mode HT20: MCS0, OFDM.

Channel List & Frequency

IEEE 802.11b/g/n HT20

Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
2412~2462MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	---	---



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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 LCS Compliance Testing Laboratory 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 KDB558074 D01 15.247 Meas Guidance v05r02 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A231229048-1)	Engineer sample – continuous transmit
Sample 2(A231229048-2)	Normal sample – Intermittent transmit



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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(Serial port tool) provided by application.

3.3. Special Accessories

N/A.

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.



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4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Test Sample	Result	Remark
§15.209(a)	Radiated Spurious Emissions	Sample 1 Sample 2	Compliant	Note 1
§15.207(a)	Conducted Emissions	Sample 2	Compliant	Note 1
§15.203	Antenna Requirements	Sample 1	Compliant	Note 1
§15.247(i)§1.1310 §15.247(i)§2.1091	RF Exposure	N/A	Compliant	Note 2

Remark:

1. Note 1 – Test results inside test report;
2. Note 2 – Test results in other test report (RF Report);



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5. TEST RESULT

5.1. Radiated Emissions Measurement

5.1.1. 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
6.215-6.218	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

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. 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

5.1.2. Measuring Instruments and Setting

Please refer to 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	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for 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



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Start ~ Stop Frequency

30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

5.1.3. 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.



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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 ($\pm 45^\circ$) 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.



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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 ($\pm 45^\circ$) 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.



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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.



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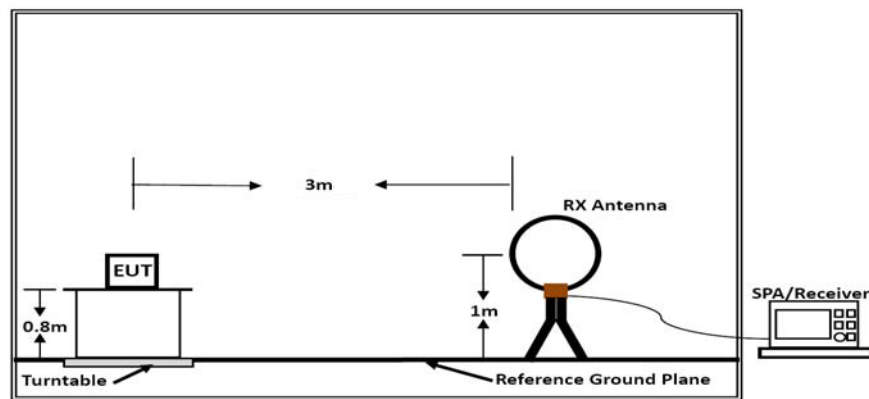
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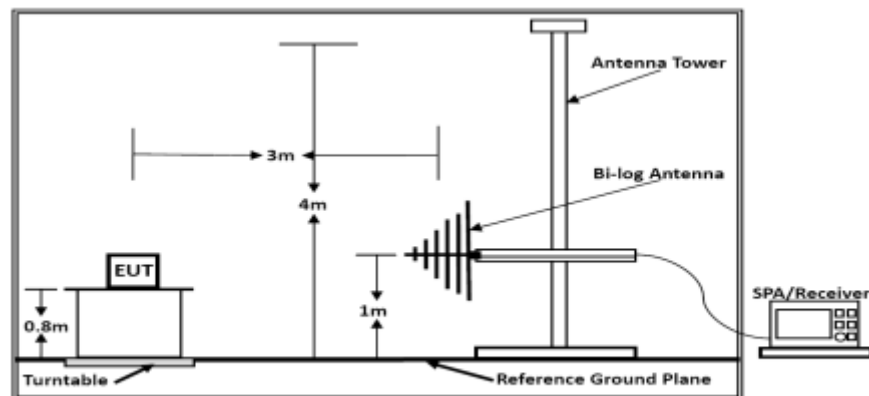
Scan code to check authenticity



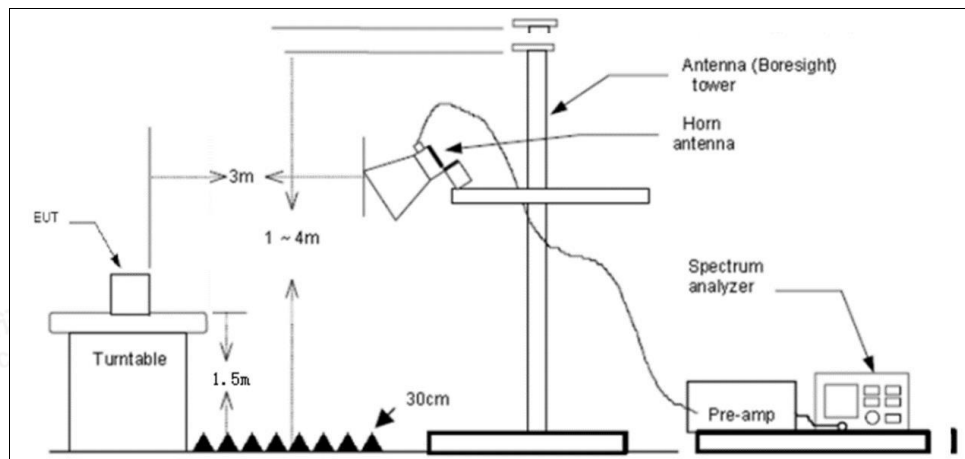
5.1.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



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5.1.6. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	23.8℃	Humidity	52.1%
Test Engineer	Jack Cheng	Configurations	IEEE 802.11b/g/n

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dB)	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.

5.1.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	23.8℃	Humidity	52.1%
Test Engineer	Jack Cheng	Configurations	IEEE 802.11b/g/n



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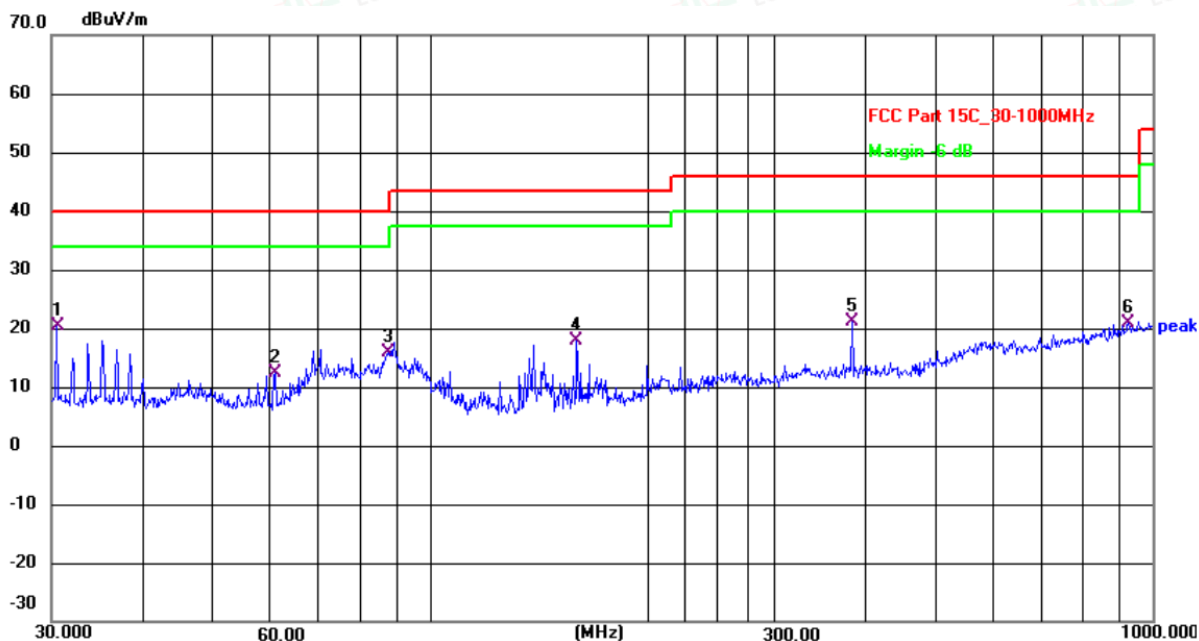
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Test result for IEEE 802.11b mode (High Channel)

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.5306	38.71	-18.39	20.32	40.00	-19.68	QP
2	61.1315	31.22	-18.93	12.29	40.00	-27.71	QP
3	87.7246	35.03	-19.11	15.92	40.00	-24.08	QP
4	159.7844	37.46	-19.68	17.78	43.50	-25.72	QP
5	383.9318	35.67	-14.63	21.04	46.00	-24.96	QP
6	925.7562	28.69	-7.93	20.76	46.00	-25.24	QP



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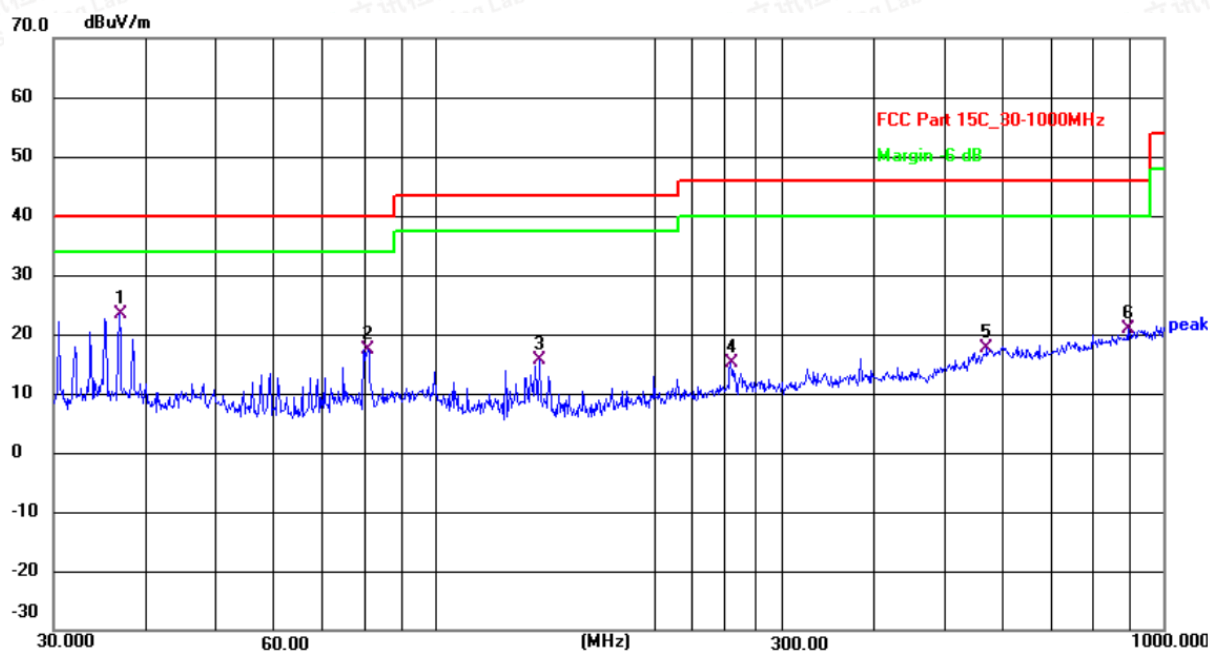
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	41.16	-17.69	23.47	40.00	-16.53	QP
2	80.9274	37.20	-19.79	17.41	40.00	-22.59	QP
3	139.3611	36.54	-20.88	15.66	43.50	-27.84	QP
4	254.7283	30.73	-15.56	15.17	46.00	-30.83	QP
5	572.6144	28.55	-10.96	17.59	46.00	-28.41	QP
6	893.8566	29.38	-8.40	20.98	46.00	-25.02	QP

Note:

Pre-scan all modes and recorded the worst case results in this report IEEE 802.11b mode (High Channel).

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Level = Reading + Factor, Margin = Level – Limit,

Factor = Antenna Factor + Cable Loss - Preamp Factor



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5.1.8. Results for Radiated Emissions (1 GHz – 26 GHz)

Note: All the modes have been tested and recorded worst mode in the report.

IEEE 802.11b

Channel 1 / 2412 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4824.00	55.16	33.06	35.04	3.94	57.12	74.00	-16.88	Peak	Horizontal
4824.00	45.41	33.06	35.04	3.94	47.37	54.00	-6.63	Average	Horizontal
4824.00	56.57	33.06	35.04	3.94	58.53	74.00	-15.47	Peak	Vertical
4824.00	45.01	33.06	35.04	3.94	46.97	54.00	-7.03	Average	Vertical

Channel 6 / 2437 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	56.40	33.16	35.15	3.96	58.37	74.00	-15.63	Peak	Horizontal
4874.00	45.77	33.16	35.15	3.96	47.74	54.00	-6.26	Average	Horizontal
4874.00	60.34	33.16	35.15	3.96	62.31	74.00	-11.69	Peak	Vertical
4874.00	44.99	33.16	35.15	3.96	46.96	54.00	-7.04	Average	Vertical

Channel 11 / 2462 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	59.23	33.26	35.14	3.98	61.33	74.00	-12.67	Peak	Horizontal
4924.00	46.50	33.26	35.14	3.98	48.60	54.00	-5.40	Average	Horizontal
4924.00	51.14	33.26	35.14	3.98	53.24	74.00	-20.76	Peak	Vertical
4924.00	43.85	33.26	35.14	3.98	45.95	54.00	-8.05	Average	Vertical

IEEE 802.11g

Channel 1 / 2412 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4824.00	55.49	33.06	35.04	3.94	57.45	74.00	-16.55	Peak	Horizontal
4824.00	44.22	33.06	35.04	3.94	46.18	54.00	-7.82	Average	Horizontal
4824.00	56.74	33.06	35.04	3.94	58.70	74.00	-15.30	Peak	Vertical
4824.00	43.36	33.06	35.04	3.94	45.32	54.00	-8.68	Average	Vertical

Channel 6 / 2437 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	57.08	33.16	35.15	3.96	59.05	74.00	-14.95	Peak	Horizontal
4874.00	43.56	33.16	35.15	3.96	45.53	54.00	-8.47	Average	Horizontal
4874.00	59.97	33.16	35.15	3.96	61.94	74.00	-12.06	Peak	Vertical
4874.00	46.66	33.16	35.15	3.96	48.63	54.00	-5.37	Average	Vertical



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Channel 11 / 2462 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	58.60	33.26	35.14	3.98	60.70	74.00	-13.30	Peak	Horizontal
4924.00	43.95	33.26	35.14	3.98	46.05	54.00	-7.95	Average	Horizontal
4924.00	53.70	33.26	35.14	3.98	55.80	74.00	-18.20	Peak	Vertical
4924.00	44.59	33.26	35.14	3.98	46.69	54.00	-7.31	Average	Vertical

IEEE 802.11n HT20

Channel 1 / 2412 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4824.00	55.72	33.06	35.04	3.94	57.68	74.00	-16.32	Peak	Horizontal
4824.00	45.02	33.06	35.04	3.94	46.98	54.00	-7.02	Average	Horizontal
4824.00	54.75	33.06	35.04	3.94	56.71	74.00	-17.29	Peak	Vertical
4824.00	43.58	33.06	35.04	3.94	45.54	54.00	-8.46	Average	Vertical

Channel 6 / 2437 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	56.62	33.16	35.15	3.96	58.59	74.00	-15.41	Peak	Horizontal
4874.00	42.33	33.16	35.15	3.96	44.30	54.00	-9.70	Average	Horizontal
4874.00	60.34	33.16	35.15	3.96	62.31	74.00	-11.69	Peak	Vertical
4874.00	45.51	33.16	35.15	3.96	47.48	54.00	-6.52	Average	Vertical

Channel 11 / 2462 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	59.48	33.26	35.14	3.98	61.58	74.00	-12.42	Peak	Horizontal
4924.00	42.82	33.26	35.14	3.98	44.92	54.00	-9.08	Average	Horizontal
4924.00	50.11	33.26	35.14	3.98	52.21	74.00	-21.79	Peak	Vertical
4924.00	41.96	33.26	35.14	3.98	44.06	54.00	-9.94	Average	Vertical

Notes:

- 1). Measuring frequencies from 9 KHz - 10th harmonic or 26.5GHz (which is less), at least have 20dB margin between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) 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). Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20.
- 5). Measured Level = Reading Level + Factor, Margin = Level-Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor.



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5.2. AC Power line conducted emissions

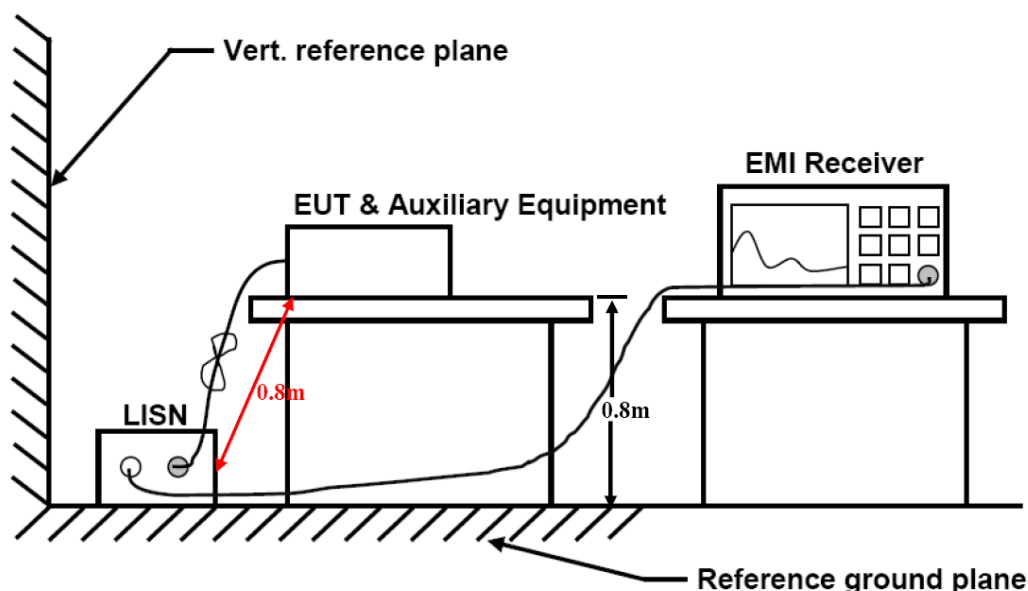
5.2.1 Standard Applicable

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

5.2.2 Block Diagram of Test Setup



5.2.3 Test Results

PASS.

The test data please refer to following page.

Temperature	24.4°C	Humidity	53.0%
Test Engineer	Jack Cheng	Configurations	IEEE 802.11b/g/n



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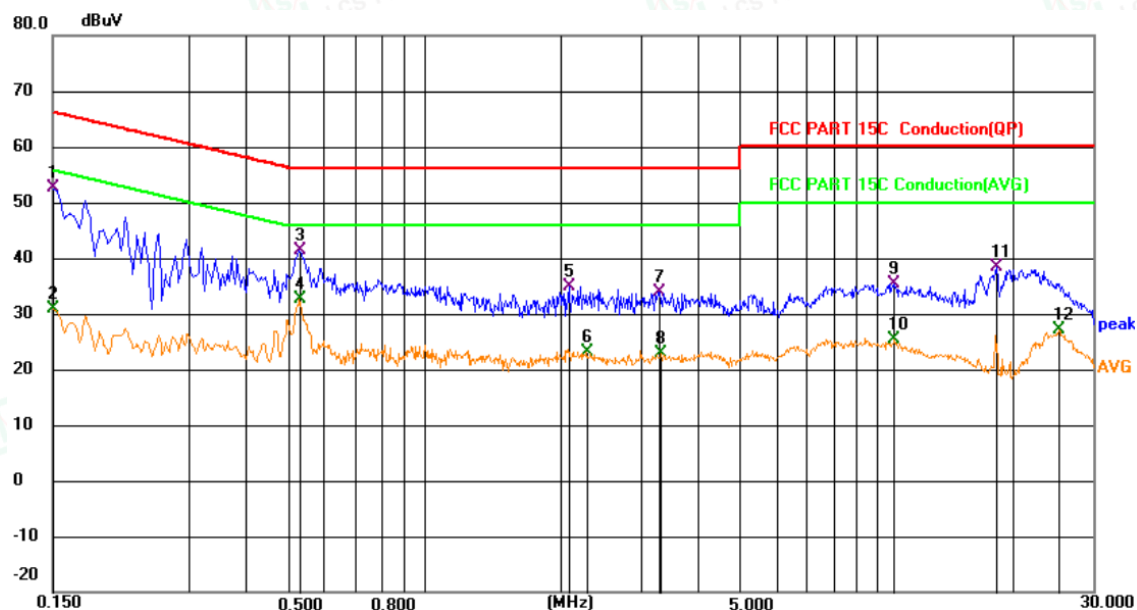
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**AC Conducted Emission of power @ AC 120V/60Hz @ IEEE 802.11b mode (High Channel) (worst case)**

Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	32.89	19.63	52.52	66.00	-13.48	QP	
2		0.1500	11.28	19.63	30.91	56.00	-25.09	AVG	
3		0.5281	21.81	19.65	41.46	56.00	-14.54	QP	
4	*	0.5281	13.03	19.65	32.68	46.00	-13.32	AVG	
5		2.0851	15.18	19.68	34.86	56.00	-21.14	QP	
6		2.2786	3.35	19.68	23.03	46.00	-22.97	AVG	
7		3.3046	14.28	19.70	33.98	56.00	-22.02	QP	
8		3.3316	3.16	19.70	22.86	46.00	-23.14	AVG	
9		10.9321	15.52	19.85	35.37	60.00	-24.63	QP	
10		10.9321	5.48	19.85	25.33	50.00	-24.67	AVG	
11		18.3616	18.12	20.17	38.29	60.00	-21.71	QP	
12		25.2736	7.04	20.03	27.07	50.00	-22.93	AVG	



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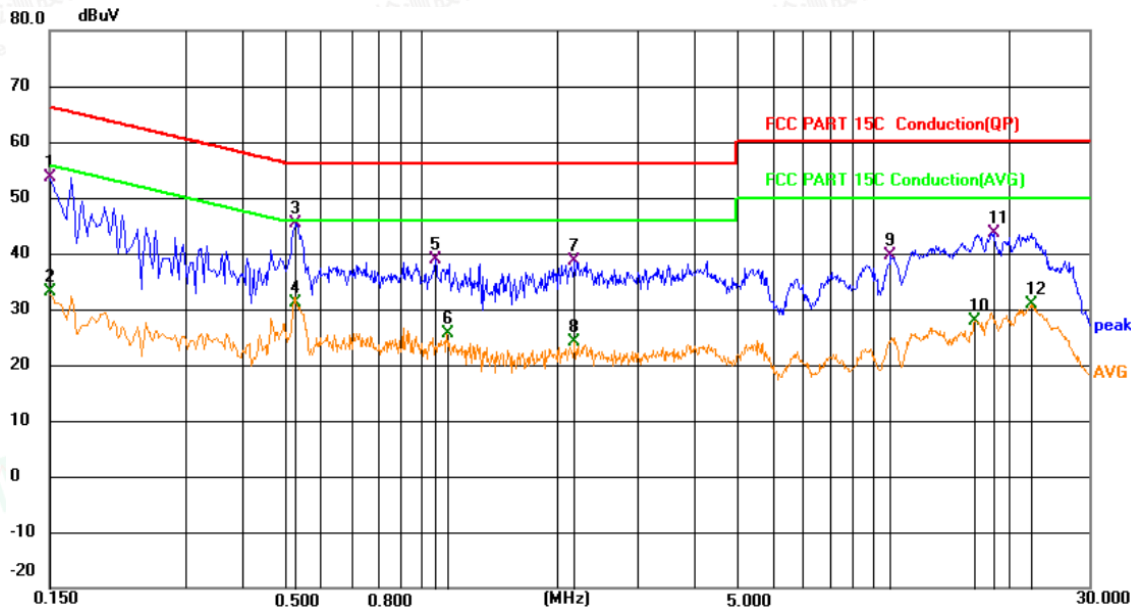
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Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.1500	34.10	19.63	53.73	66.00	-12.27	QP	
2		0.1500	13.38	19.63	33.01	56.00	-22.99	AVG	
3	*	0.5280	25.68	19.65	45.33	56.00	-10.67	QP	
4		0.5280	11.38	19.65	31.03	46.00	-14.97	AVG	
5		1.0725	19.29	19.65	38.94	56.00	-17.06	QP	
6		1.1355	5.94	19.65	25.59	46.00	-20.41	AVG	
7		2.1840	18.89	19.69	38.58	56.00	-17.42	QP	
8		2.1840	4.35	19.69	24.04	46.00	-21.96	AVG	
9		10.9321	19.69	19.85	39.54	60.00	-20.46	QP	
10		16.8091	7.91	20.01	27.92	50.00	-22.08	AVG	
11		18.4291	23.54	20.17	43.71	60.00	-16.29	QP	
12		22.3531	10.83	20.09	30.92	50.00	-19.08	AVG	

***Note: 1). Pre-scan all modes and recorded the worst case results in this report IEEE 802.11b mode (High Channel).

2). Measurement= Reading + Correct, Margin = Measurement – Limit.

Correct Factor= Lish Factor+Cable Factor



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5.3. Antenna Requirements

5.3.1 Standard Applicable

According to antenna requirement of §15.203.

According to antenna requirement of §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 shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.3.2 Antenna Connected Construction

5.3.2.1. Standard Applicable

According to § 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.

5.3.2.2. Antenna Connector Construction

The gains of antenna used for transmitting is 3.2dBi(Max.), and the antenna is External Antenna and no consideration of replacement. Please see EUT photo for details.

5.3.2.3. Results: Compliance.



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6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2023-06-09	2024-06-08
2	Power Sensor	R&S	NRV-Z81	100458	2023-06-09	2024-06-08
3	Power Sensor	R&S	NRV-Z32	10057	2023-06-09	2024-06-08
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2023-08-15	2024-08-14
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2023-10-18	2024-10-17
7	DC Power Supply	Agilent	E3642A	N/A	2023-10-18	2024-10-17
8	EMI Test Software	AUDIX	E3	/	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2023-06-09	2024-06-08
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2021-08-29	2024-08-28
16	EMI Test Receiver	R&S	ESR 7	101181	2023-08-15	2024-08-14
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2023-07-17	2024-07-16
18	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2023-10-18	2024-10-17
19	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2023-10-18	2024-10-17
20	6dB Attenuator	/	100W/6dB	1172040	2023-06-09	2024-06-08
21	3dB Attenuator	/	2N-3dB	/	2023-10-18	2024-10-17
22	EMI Test Receiver	R&S	ESPI	101940	2023-08-15	2024-08-14
23	Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08
24	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2023-06-09	2024-06-08
25	EMI Test Software	Farad	EZ	/	N/A	N/A



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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-----



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