

FCC Test Report

Report No.: AGC05925190404FE02

FCC ID : 2AHYC-CYWB1900

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: pHin Wireless Bridge

BRAND NAME : pHin Wireless Bridge

MODEL NAME : CY-WB1900-A1

APPLICANT : ConnectedYard Inc.

DATE OF ISSUE : Jul. 31, 2019

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | 9/ | Jul. 31, 2019 | Valid | Initial Release |





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1. VERIFICATION OF COMPLIANCE

| Applicant | ConnectedYard Inc. | | |
|---------------------------------|---|--|--|
| Address | 1841 Zanker Rd. Ste 10, San Jose, CA 95112, USA | | |
| Manufacturer | Suga Electronics (Dongguan) Co., Ltd | | |
| Address | Suga High-tech Industrial Park, No 8, Fulong Road, Sanzhong, Qingxi Town Dongguan, Guangdong | | |
| Factory | Suga Electronics (Dongguan) Co., Ltd | | |
| Address | Suga High-tech Industrial Park, No 8, Fulong Road, Sanzhong, Qingxi Town, Dongguan, Guangdong | | |
| Product Designation | pHin Wireless Bridge | | |
| Brand Name | pHin Wireless Bridge | | |
| Test Model | CY-WB1900-A1 | | |
| Date of test | Jul. 22, 2019 to Jul. 30, 2019 | | |
| Deviation | None | | |
| Condition of Test Sample Normal | | | |
| Test Result | Pass | | |
| Report Template AGCRT-US-BLE/RF | | | |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Tested By

Draven Li(Li Ming Liang)

Draven Li(Li Ming Liang)

Max Zhang

Max Zhang

Max Zhang(Zhang Yi)

Jul. 31, 2019

Forrest Lei(Lei Yonggang)

Authorized Officer

Jul. 31, 2019



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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a "pHin Wireless Bridge". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

| Operation Frequency | 2.402 GHz to 2.480GHz | |
|---|-----------------------|--|
| RF Output Power | 6.378dBm(Max) | |
| Bluetooth Version | V 5.0 | |
| Modulation BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps | | |
| Number of channels | 40 Channel | |
| Antenna Designation FPC Antenna (Comply with requirements of the FCC part 15.203) | | |
| Antenna Gain | 3.6dBi | |
| Hardware Version | V1.2 | |
| Software Version | V4.0.5 | |
| Power Supply | DC 5V | |

2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency | |
|----------------|----------------|-----------|--|
| 100 | 0 | 2402MHZ | |
| 0 | GG C | 2404MHZ | |
| 2400~2483.5MHZ | · P : 10 | .C 2 : 1 | |
| | 38 | 2478 MHZ | |
| | 39 | 2480 MHZ | |



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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AHYC-CYWB1900** filing to comply with the FCC Part 15.247 requirements.

2.4TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.





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3. 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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %





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4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 4. The test software is the SecureCRTSecureFX_7.0.0.326 which can set the EUT into the individual test modes.
- 5. The USB port is only used for power supply, not used for charging.



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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

| EUT | | AE |
|-----|----|----|
| | 60 | |

5.2 EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark | |
|------|-------------------------|------------------|--|-----------------|--|
| 1 | pHin Wireless Bridge | CY-WB1900-A1 | 2AHYC-CYWB1900 | EUT | |
| 2 | Adapter | ICP06C-050-1000D | Input: AC 100-240V, 50/60Hz, 0.3A Output:DC 5V==1000mA | Market with EUT | |
| 3 | PC | Xiaomi | Air 13.3 | AE | |
| 4 | Network cable | CC C | 6m Unshielded | AE | |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|---------------------------|--|-----------|
| 15.247 (b)(3) | Peak Output Power | Compliant |
| 15.247 (a)(2) | 6 dB Bandwidth | Compliant |
| 15.247 (d) | Conducted Spurious Emission | Compliant |
| 15.247 (e) | Maximum Conducted Output Power Density | Compliant |
| 15.209 Radiated Emission | | Compliant |
| 15.207 Conducted Emission | | Compliant |



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6. TEST FACILITY

| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd | | | |
|-----------------------------------|--|--|--|--|
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China | | | |
| Designation Number | CN1259 | | | |
| FCC Test Firm Registration Number | 975832 | | | |
| A2LA Cert. No. | 5054.02 | | | |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA | | | |

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------|--------------|---------|--------|---------------|---------------|
| TEST RECEIVER | R&S | ESPI | 101206 | Jun. 10, 2019 | Jun. 09, 2020 |
| LISN | R&S | ESH2-Z5 | 100086 | Aug. 28, 2018 | Aug. 27, 2019 |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|----------------|--------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Jun. 12, 2019 | Jun. 11, 2020 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 20, 2018 | Dec. 19, 2019 |
| 2.4GHz Fliter | EM Electronics | 2400-2500MHz | N/A | Feb. 27, 2019 | Feb. 26, 2020 |
| Attenuator | ZHINAN | E-002 | N/A | Aug. 28, 2018 | Aug. 27, 2019 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep. 21, 2017 | Sep. 20, 2020 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | Jun. 14, 2018 | Jun. 13, 2020 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May. 26, 2018 | May. 25, 2020 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Oct. 25, 2018 | Oct. 24, 2019 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Sep. 28, 2017 | Sep. 27, 2019 |





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7. PEAK OUTPUT POWER

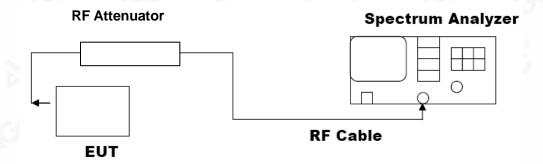
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥ DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP





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7.3. LIMITS AND MEASUREMENT RESULT

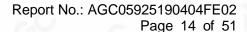
| | PEAK OUTPUT POWER MEAS FOR GFSK MOUDL | | |
|--------------------|--|-------------------------|--------------|
| Frequency (GHz) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.402 | 6.050 | 30 | Pass |
| 2.440 | 6.363 | 30 | Pass |
| 2.480 | 6.378 | 30 | Pass |

CH₀





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8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

| LIMITS AND MEASUREMENT RESULT | | | | | | | |
|-------------------------------|-------------------|----------|------|--|--|--|--|
| Amuliaakla Limita | Applicable Limits | | | | | | |
| Applicable Limits | Test Data | Criteria | | | | | |
| 60 | Low Channel | 654.5 | PASS | | | | |
| >500KHZ | Middle Channel | 656.8 | PASS | | | | |
| | High Channel | 655.9 | PASS | | | | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

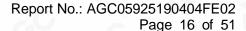




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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

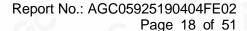
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | | | | | | |
|--|--|--------------|--|--|--|--|--|
| A multi-oblight truster | Measurement Result | | | | | | |
| Applicable Limits | Test Data | Criteria | | | | | |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. | At least -20dBc than the reference level | PASS PASS | | | | | |

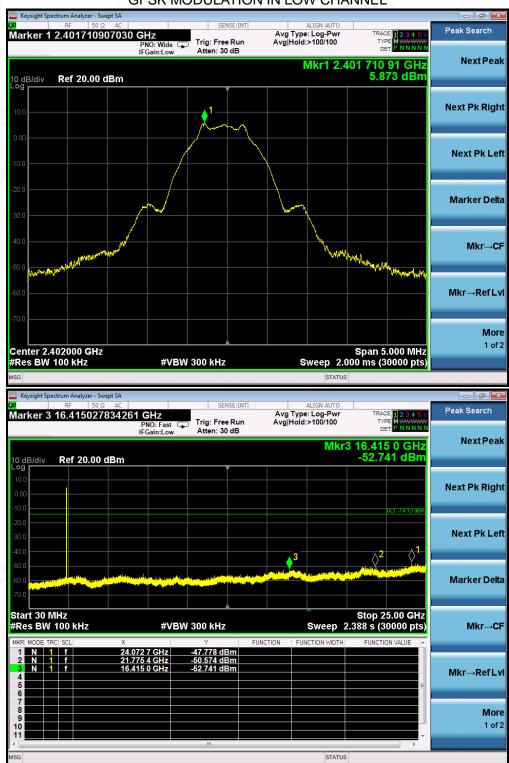






TEST RESULT FOR ENTIRE FREQUENCY RANGE

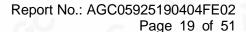
GFSK MODULATION IN LOW CHANNEL





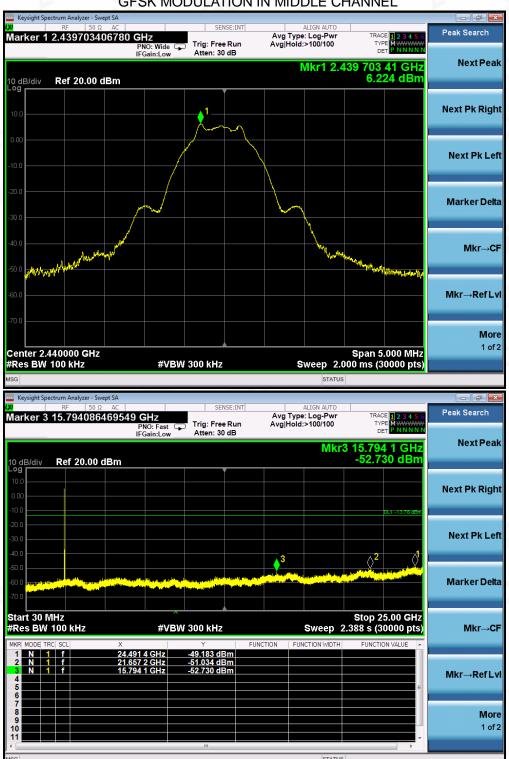
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Add: 2/F., Building 2,Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

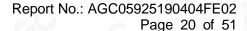




GFSK MODULATION IN MIDDLE CHANNEL



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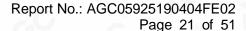
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



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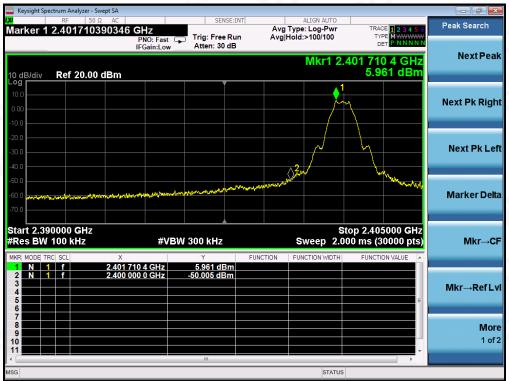
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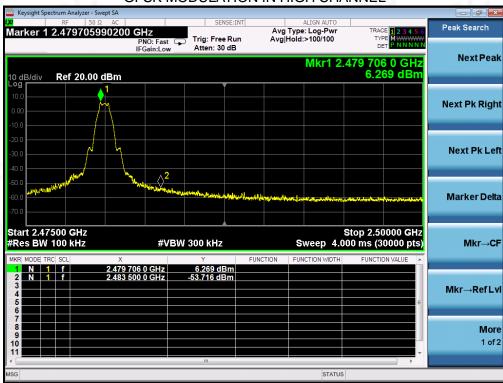


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

| Channel No. | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result | |
|----------------|-------------------|---------------------|--------|--|
| Low Channel | -9.102 | 8 | Pass | |
| Middle Channel | -8.836 | 8 | Pass | |
| High Channel | -8.839 | 8 | Pass | |

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

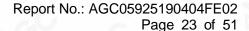




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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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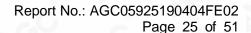
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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

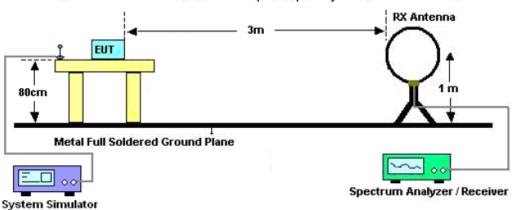




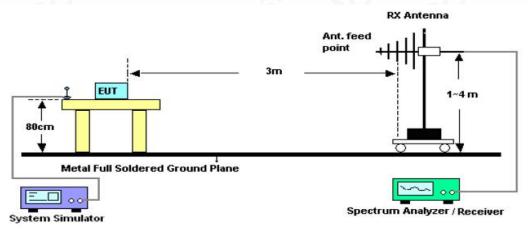


11.2. TEST SETUP

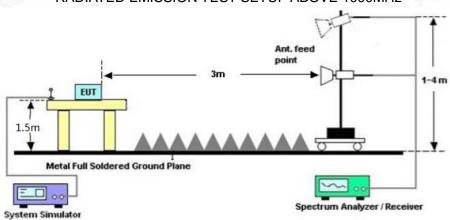
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

| Frequencies (MHz) | Field Strength (micorvolts/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 | | |

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

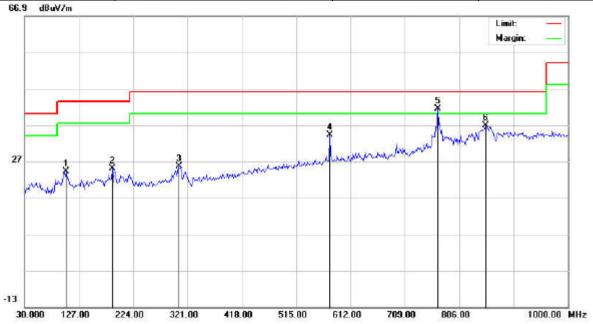




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RADIATED EMISSION BELOW 1GHZ

| EUT | pHin Wireless Bridge | Model Name | CY-WB1900-A1 |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | • | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 104.3666 | 7.69 | 16.44 | 24.13 | 43.50 | -19.37 | peak | | | |
| 2 | | 186.8166 | 8.14 | 16.77 | 24.91 | 43.50 | -18.59 | peak | | | |
| 3 | | 306.4497 | 5.86 | 19.70 | 25.56 | 46.00 | -20.44 | peak | | | |
| 4 | | 574.8165 | 7.67 | 26.46 | 34.13 | 46.00 | -11.87 | peak | | | |
| 5 | * | 767.2000 | 11.77 | 29.67 | 41.44 | 46.00 | -4.56 | peak | | | |
| 6 | | 852.8831 | 5.65 | 31.09 | 36.74 | 46.00 | -9.26 | peak | | | |

RESULT: PASS



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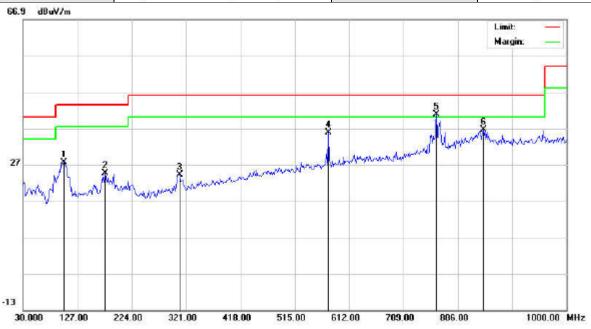
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

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| EUT | pHin Wireless Bridge | Model Name | CY-WB1900-A1 |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | • | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 102.7500 | 11.32 | 16.28 | 27.60 | 43.50 | -15.90 | peak | | | |
| 2 | | 177.1167 | 7.27 | 17.43 | 24.70 | 43.50 | -18.80 | peak | | | |
| 3 | | 309.6833 | 4.48 | 19.81 | 24.29 | 46.00 | -21.71 | peak | | | |
| 4 | | 574.8167 | 9.35 | 26.46 | 35.81 | 46.00 | -10.19 | peak | | | |
| 5 | * | 767.2000 | 11.23 | 29.67 | 40.90 | 46.00 | -5.10 | peak | | · | |
| 6 | | 851.2667 | 5.60 | 31.07 | 36.67 | 46.00 | -9.33 | peak | | | |

RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

| EUT | pHin Wireless Bridge | Model Name | CY-WB1900-A1 |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor Emission | | Limits | Margin | \/alva Tree |
|---------------|-------------------|-----------------|------------|----------|--------|-------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4804.03 | 50.37 | 0.08 | 50.45 | 74.00 | -23.55 | peak |
| 4804.03 | 48.53 | 0.08 | 48.61 | 54.00 | -5.39 | AVG |
| 7206.045 | 42.83 | 2.21 | 45.04 | 74.00 | -28.96 | peak |
| 7206.045 | 39.63 | 2.21 | 41.84 | 54.00 | -12.16 | AVG |
| - GC | -6 | 0 | | ~ GO | | ⊗ |
| emark: | 0 | | 8 | | | -C |
| actor = Anter | na Factor + Cable | Loss – Pre- | -amplifier | | | |

| - 1 | | | | | | |
|-----|----------|--------|---------|------------|-------|---------------------|
| 1 | | A 1 | E 1 | . 0 - 1-1- | 1 | - Pre-amplifier. |
| - 1 | -actor - | MATANA | ⊢ actor | | 1 000 | _ Dra_amniitiar |
| - 1 | 1 00.00 | | 1 (1) | エ いのいに | | - 1 15-01111111151. |

| EUT | pHin Wireless Bridge | Model Name | CY-WB1900-A1 |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |

| (dRu\) | | | Limits | Margin | Value Tons | |
|--------|-------------------------|--|---|--|---|--|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type | |
| 50.33 | 0.08 | 50.41 | 74.00 | -23.59 | peak | |
| 46.93 | 80.0 | 47.01 | 54.00 | -7.00 | AVG | |
| 44.63 | 2.21 | 46.84 | 74.00 | -27.16 | peak | |
| 42.67 | 2.21 | 44.88 | 54.00 | -9.12 | AVG | |
| | -60 | | | | | |
| | | | | @ | | |
| | 46.93 44.63 42.67 | 46.93 0.08 44.63 2.21 42.67 2.21 | 46.93 0.08 47.01 44.63 2.21 46.84 | 46.93 0.08 47.01 54.00 44.63 2.21 46.84 74.00 42.67 2.21 44.88 54.00 | 46.93 0.08 47.01 54.00 -7.00 44.63 2.21 46.84 74.00 -27.16 42.67 2.21 44.88 54.00 -9.12 | |



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| EUT | pHin Wireless Bridge | Model Name | CY-WB1900-A1 |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Tree |
|---------------|--------------------|-------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4880.03 | 50.30 | 0.14 | 50.44 | 74.00 | -23.56 | peak |
| 4880.03 | 45.91 | 0.14 | 46.05 | 54.00 | -7.96 | AVG |
| 7320.045 | 46.68 | 2.36 | 49.04 | 74.00 | -24.96 | peak |
| 7320.045 | 45.58 | 2.36 | 47.94 | 54.00 | -6.06 | AVG |
| | (8) | | | | @ | |
| | | | | | | @ |
| Remark: | (G) | C | 8 | | | - 6 |
| actor = Anter | nna Factor + Cable | Loss - Pre- | amplifier. | | | |

| EUT | pHin Wireless Bridge | Model Name | CY-WB1900-A1 |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Tree |
|---------------|--------------------|------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4880.03 | 51.33 | 0.14 | 51.47 | 74.00 | -22.53 | peak |
| 4880.03 | 47.78 | 0.14 | 47.92 | 54.00 | -6.08 | AVG |
| 7320.045 | 46.25 | 2.36 | 48.61 | 74.00 | -25.39 | peak |
| 7320.045 | 42.70 | 2.36 | 45.06 | 54.00 | -8.94 | AVG |
| <u> </u> | | 100 | 20 | | | |
| emark: | | | | ,0 , | | 3 |
| actor = Anter | nna Factor + Cable | Loss – Pre | amplifier. | | | © |

