

FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Rondish Company Limited

Wireless Call Point Transmitter

WCP-11

FCC ID: WNG-WCP-11

Prepared for: Rondish Company Limited

Unit G&H, 4/F, Block 1, Kwai Tak Ind. Ctr. 15-33 Kwai

Tak St., Kwai Chung, N.T., Hong Kong

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F19027

Date of Test : Jan.29~Apr.15, 2019

Date of Report : May.05,2019



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TEST REPORT CERTIFICATION

Applicant : Rondish Company Limited

Manufacturer : Rondish Company Limited

Product : Wireless Call Point Transmitter

FCC ID : WNG-WCP-11

(A)Model No. : WCP-11 (B)Power Supply : DC 6V (C)Test Voltage : DC 6V

Tested for comply with:

FCC CFR47 Part 15 Subpart C

Test procedure used: ANSI C63.10: 2013

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test: ______ Jan.29~Apr.15, 2019 ____ Report of date: ______ May.05,2019

Prepared by: Monica Lu for Reviewed by: Sunny Lu

ave Zhang / Assystant Sunny Lu / Deputy Manager

Audix Technology (Shenzhen) Co., Ltd. EMC 部門報告專用章

Stamp only for EMC Dept. Report

Approved & Authorized Signer: Signature: David Jin / Manager



1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

| EMISSION | | | | | | |
|--|--|---------|--|--|--|--|
| Description of Test Item | Standard | Results | | | | |
| Conducted Emission Test | FCC Part 15C: 15.207 ANSI C63.10: 2013 | N/A | | | | |
| Radiated Emission Test | FCC Part 15C: 15.231(b) ANSI C63.10: 2013 | PASS | | | | |
| Stop Transmitting Time Test | FCC Part 15C: 15.231(a)(1) | PASS | | | | |
| Cease Time After Activation | FCC Part 15C: 15.231(a)(2) | PASS | | | | |
| 20 dB Bandwidth Test | FCC Part 15C: 15.231(c) | PASS | | | | |
| NI/A is an abhassistion for Nat Applicable | | | | | | |

N/A is an abbreviation for Not Applicable.



2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product : Wireless Call Point Transmitter

Model No. : WCP-11

FCC ID : WNG-WCP-11

Operation frequency: 433.92MHz

Applicant : Rondish Company Limited

Unit G&H, 4/F, Block 1, Kwai Tak Ind. Ctr. 15-33 Kwai Tak

St., Kwai Chung, N.T., Hong Kong

Manufacturer : Rondish Company Limited

Unit G&H, 4/F, Block 1, Kwai Tak Ind. Ctr. 15-33 Kwai Tak

St., Kwai Chung, N.T., Hong Kong

Antenna Type &Gain: Antenna Type: Wire Antenna, -3dBi gain;

Date of Test : Jan.29~Apr.15, 2019

Date of Receipt : Jan.07,2019

Sample Type : Prototype production



2.1. EUT Configuration and operation conditions for test

EUT

(EUT: Wireless Call Point Transmitter)

2.2.Test Facility

Site Description

Audix Technology (Shenzhen) Co., Ltd.

No. 6, Kefeng Road, Science & Technology Park, Name of Firm

Nanshan District, Shenzhen, Guangdong, China

Certificated by Industry Canada EMC Lab.

Registration Number: IC 5183A-1

Valid Date: May.07, 2020

Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00

Valid Date: Dec.07, 2021

Accredited by NVLAP, USA

NVLAP Code: 200372-0

Valid Date: Mar.31, 2020

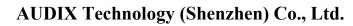
Certificated by FCC USA.

Designation No.: CN5022

Valid Date: Mar.31, 2020

2.3. Measurement Uncertainty (95% confidence levels, k=2)

| Test Item | Uncertainty | | |
|---|-----------------------------------|--|--|
| | 4.0dB(30~200MHz, Polarization: H) | | |
| Uncertainty for Radiation Emission test | 4.0dB(30~200MHz, Polarization: V) | | |
| in 3m chamber | 4.4dB(200M~1GHz, Polarization: H) | | |
| | 4.4dB(200M~1GHz, Polarization: V) | | |
| Uncertainty for Dadiction Emission test in | 5.0dB (1~6GHz, Distance: 3m) | | |
| Uncertainty for Radiation Emission test in 3m chamber | 5.4dB (6~18GHz, Distance: 3m) | | |
| Sili chambei | 5.4dB (Above 18GHz, Distance: 3m) | | |
| Uncertainty for Radiated Spurious | 3.6dB | | |
| Emission test in RF chamber | 3.0dB | | |
| Uncertainty for Conduction Spurious | 2.0dB | | |
| emission test | 2.000 | | |
| Uncertainty for Output power test | 0.8dB | | |
| Uncertainty for Bandwidth test | 83kHz | | |
| Uncertainty for DC power test | 0.1 % | | |
| Uncertainty for test site temperature and | $0.6^{\circ}\! { m C}$ | | |
| humidity | 3% | | |





| 3. | POWER LINE CONDUCTED EMISSION TEST According to Paragraph (c) of FCC Part 15 section 15.231, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. |
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4. RADIATED EMISSION TEST

4.1.Test Equipment

Frequency range: 30~1000MHz

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. | | |
|--------|--------------------------------|-----------------|-------------|-----------------|-----------|----------|--|--|
| ItCIII | Equipment | Manufacturer | WIOUCI INO. | Scriai IVO. | Last Car. | Interval | | |
| 1. | 3#Chamber | AUDIX | N/A | N/A | Jun.19,18 | 1 Year | | |
| 2. | Signal Analyzer | Rohde & Schwarz | FSV30 | 104050 | Apr.23,18 | 1 Year | | |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESR7 | 101547 | Apr.23,18 | 1 Year | | |
| 4. | Amplifier | HP | 8447D | 2648A04738 | Apr.23,18 | 1 Year | | |
| 5. | Tri-log-Broadband Antenna | Schwarzbeck | VULB 9168 | 710 | Aug.22,18 | 1 Year | | |
| 6. | NSA Cable | HUBER+SUHNER | CFD400NL-LW | No.3 | Dec.01,18 | 1 Year | | |
| 7. | Coaxial Switch | Anritsu | MP59B | 6201397222 | Apr.23,18 | 1 Year | | |
| 8. | Test Software | AUDIX | e3 | 6.2009-5-21a(n) | N/A | N/A | | |
| Note: | Note: N/A means Not applicable | | | | | | | |

Frequency range: above 1000MHz

| | riequency range, accive receiving | | | | | | | |
|------|-----------------------------------|-----------------|-------------|-----------------|-----------|------------------|--|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval | | |
| 1. | 3#Chamber | AUDIX | N/A | N/A | May.17,18 | 1 Year | | |
| 2. | Signal Analyzer | Rohde & Schwarz | FSV30 | 104050 | Apr.23,18 | 1 Year | | |
| 3. | Horn Antenna | ETC | MCTD 1209 | DRH15F03007 | May.30,18 | 1 Year | | |
| 4. | Amplifier | Agilent | 83017A | MY53270084 | Oct.14,18 | 1 Year | | |
| 5. | RF Cable | Hubersuhner | SUCOFLEX106 | 505239/6 | Apr.23,18 | 1 Year | | |
| 6. | Test Software | AUDIX | e3 | 6.2009-5-21a(n) | N/A | N/A | | |

Note: N/A means Not applicable.



4.2.Block Diagram of Test Setup For frequency range 30MHz-1000MHz Semi-anechoic 3m Chamber ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS 3m **EUT** 0.8m TURN TABLE 2.0m(L)*1.0m(W)*0.8m(H)(FIBRE GLASS) Coaxial Switch Spectrum Analyzer PC System **AMP** Receiver For frequency range above 1GHz Semi-anechoic 3m Chamber ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS 3m **EUT** (Reference Point) 1.0m(L)*1.0m(W)*1.5m(H) -TURN TABLE 1.5m (Styrene) ABSORBER (30cm maximum) (30cm) PC System **AMP** Spectrum Analyzer



4.3. Radiated Emission Limit

All emanations from a Class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

| Fundamental | Field Strength of | Field Strength of Spurious |
|----------------|----------------------|----------------------------|
| Frequency(MHz) | Fundamental | emissions |
| 433.92 | QP:80.83dBuV/m at 3m | AV:60.83dBuV/m at 3m |
| | distance | distance (Above 1GHz) |
| | | PK:80.83dBuV/m at 3m |
| | | distance (Above 1GHz) |
| | | QP:60.83dBuV/m at 3m |
| | | distance (Below 1GHz) |

Note: The spurious emissions appearing within the frequency band listed in 15.205 Shall also comply with limits shown in section 15.209

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3.Let EUT work in Tx mode.

4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions.

After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation show in the test setup photos.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse modulated; a duty cycle factor was used to calculate average level based measured peak level.

4.7. Radiated Emission Test Results

PASS.

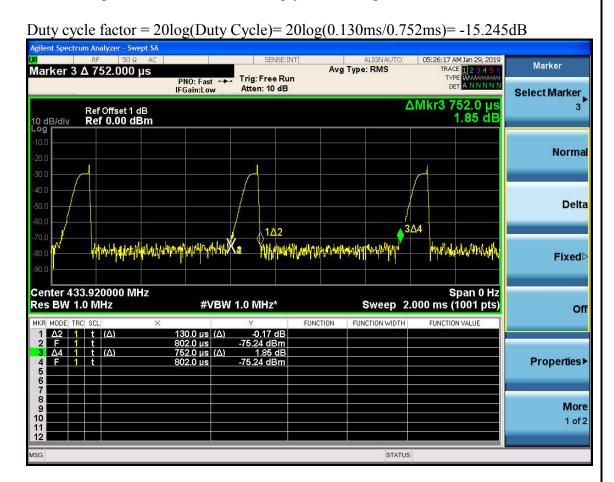


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Note: The emission in the restricted Bands in section 15.205 comply with the 15.209 general limit.

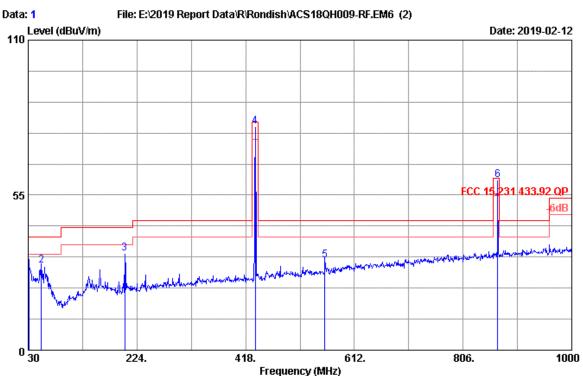
The frequency range from 30MHz to 5000MHz was investigated. When PK measured Levels comply with average limit, then the average levels were deemed to comply with Average limit.

Note: The duty cycle factor for calculate average level is -15.245dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.









Site no. : 3m Chamber Data no. : 1

Dis. / Ant. : 3m 2018 VULB9168-710 Ant. pol. : HORIZONTAL

Limit : FCC 15.231 433.92 QP

Env. / Ins. : 25.3 *C/55% Engineer : Andy

EUT : Wireless Call Point Transmitter

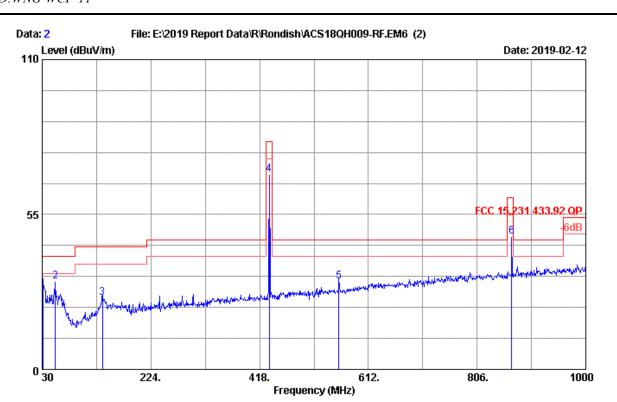
Power rating : DC 6V
Test Mode : Tx Mode
M/N:WCP-11

| No. | Freq. | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|---------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 31.940 | 19.10 | 0.54 | 8.73 | 28.37 | 40.00 | 11.63 | QP |
| 2 | 53.260 | 20.20 | 0.69 | 9.22 | 30.11 | 40.00 | 9.89 | QP |
| 3 | 202.660 | 17.22 | 1.40 | 15.63 | 34.25 | 43.50 | 9.25 | QP |
| 4 | 435.460 | 23.00 | 2.12 | 54.36 | 79.48 | 80.83 | 1.35 | QP |
| 5 | 559.620 | 25.00 | 2.49 | 4.32 | 31.81 | 46.00 | 14.19 | QP |
| 6 | 867.880 | 28.86 | 3.26 | 28.20 | 60.32 | 60.83 | 0.51 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 2018 VULB9168-710 Ant. pol. : VERTICAL

Limit : FCC 15.231 433.92 QP

Env. / Ins. : 25.3*C/55% Engineer : Andy

EUT : Wireless Call Point Transmitter

2.49

3.26

Power rating : DC 6V
Test Mode : Tx Mode
M/N:WCP-11

25.00

28.86

No.

2

3

559.620

867.880

Cable Emission Ant. Freq. Loss Reading Level Limits Margin (dBuV) (dBuV/m) (dBuV/m) (dB) (MHz)(dB/m) (dB) 31.940 19.10 0.54 8.81 28.45 40.00 11.55 53.280 20.20 0.69 10.25 31.14 40.00 8.86 QP 137.670 18.80 1.14 5.61 25.55 43.50 17.95 OP 435.460 23.00 2.12 44.13 69.25 80.83 11.58

31.34

47.22

46.00

60.83

14.66

13.61

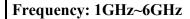
QP

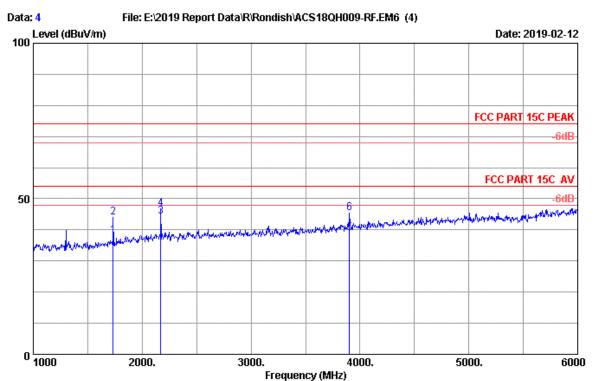
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.85

15.10







Site no. : 3m Chamber Data no. : 4

Dis. / Ant. : 2018 MCTD1209-3007 Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 25.3 *C/55% Engineer : Andy

EUT : Wireless Call Point Transmitter

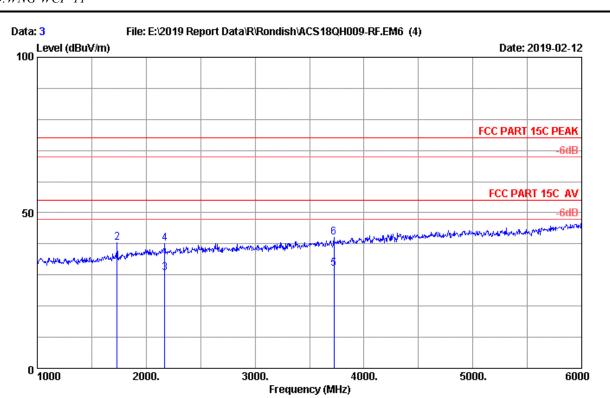
Power rating : DC 6V
Test Mode : Tx Mode
M/N:WCP-11

| | | Ant. | Cable | AMP | | Emission | 1 | | |
|-----|----------------|------------------|--------------|----------------|-------------------|----------|-----------------|----------------|---------|
| No. | Freq. (MHz) | Factor (dB/m) | Loss (dB) | factor (dB) | Reading (dBuV) | Level | Limits (dBuV/m) | Margin (dB) | Remark |
| | (MHZ) | (ub/m) | (ub) | (ub) | (швиv) | (ubuv/m) | (ubuv/m) | (ub) | |
| 1 | 1735.000 | 26.13 | 2.44 | 32.99 | 42.63 | 38.21 | 54.00 | 15.79 | Average |
| 2 | 1735.000 | 26.13 | 2.44 | 32.99 | 48.32 | 43.90 | 74.00 | 30.10 | Peak |
| 3 | 2170.000 | 27.51 | 2.78 | 32.16 | 46.17 | 44.30 | 54.00 | 9.70 | Average |
| 4 | 2170.000 | 27.51 | 2.78 | 32.16 | 48.73 | 46.86 | 74.00 | 27.14 | Peak |
| 5 | 3905.000 | 30.74 | 3.70 | 30.96 | 35.47 | 38.95 | 54.00 | 15.05 | Average |
| 6 | 3905.000 | 30.74 | 3.70 | 30.96 | 41.99 | 45.47 | 74.00 | 28.53 | Peak |
| | | | | | | | | | |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading $-\mathrm{Amp}$ Factor

The emission levels that are 20dB below the official limit are not reported.

AUDIX Technology (Shenzhen) Co., Ltd.



Site no. : 3m Chamber Data no. : 3

Dis. / Ant. : 2018 MCTD1209-3007 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 25.3 *C/55% Engineer : Andy

EUT : Wireless Call Point Transmitter

Power rating : DC 6V
Test Mode : Tx Mode
M/N:WCP-11

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 1735.000 | 26.13 | 2.44 | 32.99 | 37.11 | 32.69 | 54.00 | 21.31 | Average |
| 2 | 1735.000 | 26.13 | 2.44 | 32.99 | 44.71 | 40.29 | 74.00 | 33.71 | Peak |
| 3 | 2170.000 | 27.51 | 2.78 | 32.16 | 32.57 | 30.70 | 54.00 | 23.30 | Average |
| 4 | 2170.000 | 27.51 | 2.78 | 32.16 | 42.03 | 40.16 | 74.00 | 33.84 | Peak |
| 5 | 3725.000 | 30.17 | 3.62 | 31.09 | 29.37 | 32.07 | 54.00 | 21.93 | Average |
| 6 | 3725.000 | 30.17 | 3.62 | 31.09 | 39.26 | 41.96 | 74.00 | 32.04 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading $-{\rm Amp}$ Factor

2. The emission levels that are 20dB below the official limit are not reported.



5. STOP TRANSMITTING TIME TEST

5.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------|--------------|-----------|------------|-----------|---------------|
| 1. | EMC Analyzer | Agilent | N9030A | MY51380221 | Sep.08,18 | 1 Year |

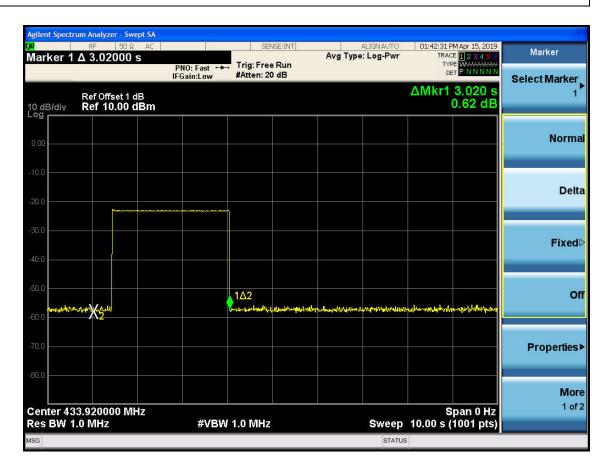
5.2. Limit

Per Part 15.231(a)(1): A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

5.3. Test Results

| EUT: Wireless Call Point transmitters | | | | | |
|---------------------------------------|-------------------------|-----------------------|--|--|--|
| M/N: WCP-11 | | | | | |
| Test Date: 2019-04-15 | Pressure: 101.2±1.0 kpa | Humidity: 52.1±3.0% | | | |
| Tested By: Lynn | Test Site: RF site | Temperature:22.9±0.6℃ | | | |

| Frequency (MHz) | Test Mode | Stop Transmitting Time (s) | Limit (s) |
|-----------------|------------------|----------------------------|-----------|
| 433.92 | Tx | 3.02 | <5 |
| Conclusion: PA | Conclusion: PASS | | |





6. CEASE TIME AFTER ACTIVATION TEST

6.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------|--------------|-----------|------------|-----------|---------------|
| 1. | EMC Analyzer | Agilent | N9030A | MY51380221 | Sep.08,18 | 1 Year |

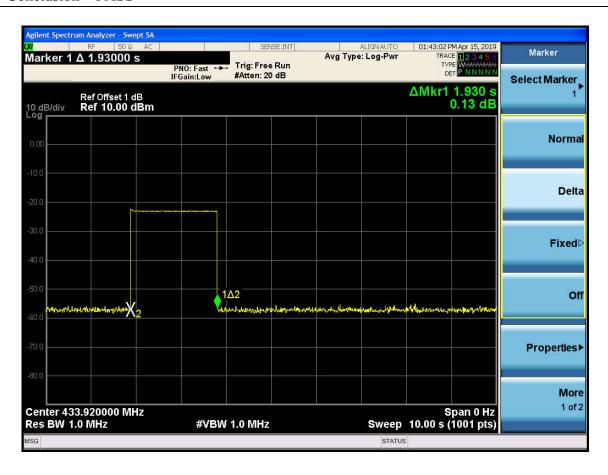
6.2. Limit

Per Part 15.231(a)(2): A transmitter activated automatically shall cease transmission within 5 seconds after activation.

6.3. Test Result

| EUT: Wireless Call Point Transmitter | | | |
|---|--|--|--|
| M/N: WCP-11 | | | |
| Test Date: 2019-04-15 Pressure: 101.4±1.0 kpa Humidity: 52.7±3.0% | | | |
| Tested By: Lynn Test Site: RF site Temperature:22.3±0.6℃ | | | |

| Frequency (MHz) | Test Mode | Cease Time After Activation (s) | Limit (s) |
|------------------|--------------|---------------------------------|-----------|
| 433.92 | Tx | 1.93 | <5 |
| Conclusion: PASS | | | |





7. 20 DB BANDWIDTH TEST

7.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|------------------------|--------------|-------------|------------|-----------|---------------|
| 1. | PXA Signal Analyzer | Agilent | N9030A | MY51380221 | Sep.08,18 | 1Year |
| 2. | Attenuator | Agilent | 8491B | MY39269170 | Oct.14,18 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX106 | 505239/6 | Apr.23,18 | 1 Year |

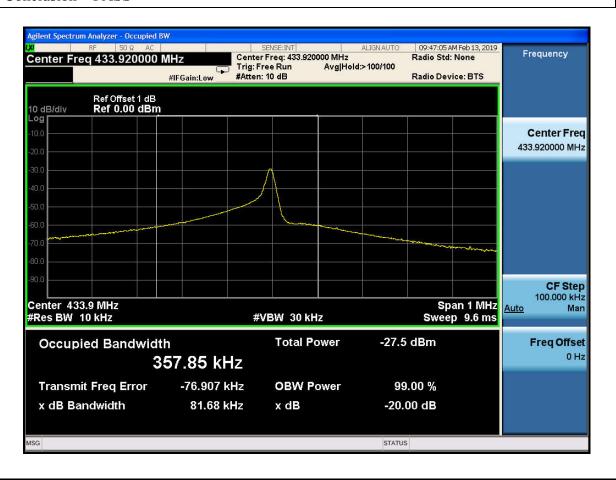
7.2. Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency.

7.3. Test Results

| EUT: Wireless Call Point Transmitter | | | |
|---|--|--|--|
| M/N: WCP-11 | | | |
| Test Date: 2019-02-13 Pressure: 101.2±1.0 kpa Humidity: 52.1±3.0% | | | |
| Tested By: Lynn Test Site: RF site Temperature:22.9±0.6℃ | | | |

| Frequency | Test | -20dB Bandwith | Limit |
|------------------|------|----------------|---------|
| (MHz) | Mode | (kHz) | (MHz) |
| 433.92 | Tx | 81.68 | <1.0848 |
| Conclusion: PASS | | | |





8. ANTENNA REQUIREMENT

RESULT: PASS

Test Date : Jan.29~Apr.15, 2019

Test standard : FCC Part 15.231

Limit : the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an Wire antenna, the directional gain of antenna is -3dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.



9. RADIO FRREQUENCY EXPOSURE COMPLIANCE

RESULT: PASS

Test standard : FCC KDB Publication 447498 D01 V06

Since maximum peak output power of the transmitter is<10mW, i.e.0.000001614921mW<10mW, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01: General RF Exposure Guidance V06.



| 10.DEVIATION TO TEST SPECIFICATIONS [NONE] |
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