



FCC PART 15C

TEST REPORT

For

Shenzhen Ground Enterprises Co.,Ltd

Room607, Building F, MingYueHuaDu, Gonghe Industrial Rd, Xixiang,Bao An District Shenzhen China

FCC ID: 2AMD8PC-QI1001

Report Type: Product Type:

Original Report PrimeConnect Alarm Clock

Wireless Charger

Report Number: SZ3210316-06921E-00

Report Date: 2021-04-15

Jacob Kong

Reviewed By: RF Engineer

Prepared By: Bay Area Compliance Laboratories Corp. (Shenzhen)

5F(B-West) ,6F,7F,the 3rd Phase of Wan Li Industrial Building D,Shihua Rd, FuTian Free Trade Zone,

Jacob Gong

Shenzhen, China

Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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TABLE OF CONTENTS

Report No.: SZ3210316-06921E-00

| GENERAL INFORMATION | 3 |
|--|----|
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 3 |
| OBJECTIVE | |
| TEST METHODOLOGY | |
| MEASUREMENT UNCERTAINTY | |
| TEST FACILITY | 4 |
| SYSTEM TEST CONFIGURATION | 5 |
| JUSTIFICATION | |
| EUT Exercise Software | |
| LOCAL SUPPORT EQUIPMENT | |
| EXTERNAL I/O CABLE | |
| BLOCK DIAGRAM OF TEST SETUP | 5 |
| SUMMARY OF TEST RESULTS | 6 |
| TEST EQUIPMENT LIST | 7 |
| - | |
| FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE) | |
| APPLICABLE STANDARD | |
| BLOCK DIAGRAM OF TEST SETUP | |
| TEST DATA | |
| FCC§15.203 – ANTENNA REQUIREMENT | |
| APPLICABLE STANDARD | 11 |
| ANTENNA CONNECTED CONSTRUCTION | 11 |
| FCC §15.207 – AC LINE CONDUCTED EMISSION | 12 |
| APPLICABLE STANDARD | 12 |
| EUT Setup | |
| EMI TEST RECEIVER SETUP | |
| TEST PROCEDURE | 12 |
| CORRECTED FACTOR & MARGIN CALCULATION | |
| TEST DATA | |
| FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST | |
| APPLICABLE STANDARD | |
| EUT SETUP | |
| EMI TEST RECEIVER SETUP | |
| CORRECTED AMPLITUDE & MARGIN CALCULATION | |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| Product | PrimeConnect Alarm Clock Wireless Charger | | |
|----------------------|--|--|--|
| Tested Model | PCQI-1001-AS | | |
| Multiple Model | PCQI-1001-BK, PCQI-1001-BL, PCQI-1001-PK, PCQI-1001-WH | | |
| Model Differences | Refer to the DoS letter | | |
| Frequency Range | 110-205kHz | | |
| Antenna Type | Coil | | |
| Voltage Range | DC 5.0V | | |
| Date of Test | 2021-04-02 to 2021-04-13 | | |
| Sample serial number | SZ3210316-06921E-RF-S1 (Assigned by BACL, Shenzhen) | | |
| Received date | 2021-03-16 | | |
| Sample/EUT Status | Good Condition | | |

Report No.: SZ3210316-06921E-00

Objective

This test report is in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of EUT with FCC rules, section 15.203, 15.205, 15.207 and 15.209.

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.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

FCC Part 15C Page 3 of 20

Measurement Uncertainty

| Iten | Uncertainty | |
|-----------------------------------|-------------|----------|
| AC Power Line Conducted Emissions | | ±1.95 dB |
| D 1: 4 1 | 9 kHz~30MHz | ±4.52 dB |
| Radiated emission | 30MHz~1 GHz | ±5.81 dB |
| Occupied Ba | ±0.5 kHz | |
| Tempera | ±3.0 ℃ | |
| Humic | ±6 % | |

Report No.: SZ3210316-06921E-00

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) ,6F,7F,the 3rd Phase of Wan Li Industrial Building D,Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

FCC Part 15C Page 4 of 20

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a test mode

EUT Exercise Software

No software used in test.

Local Support Equipment

| Manufacturer | Description | Model | Serial Number |
|--------------|---------------|---------|---------------|
| Unknown | Wireless load | Unknown | Unknown |
| Unknown | Adapter | Unknown | Unknown |

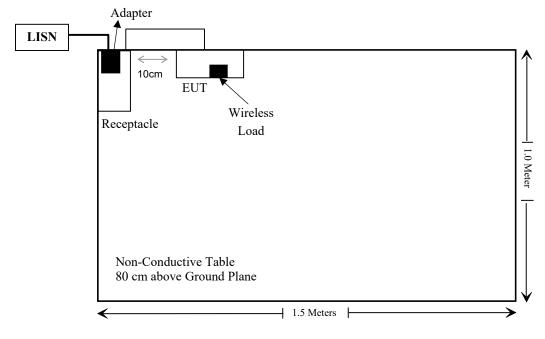
Report No.: SZ3210316-06921E-00

External I/O Cable

| Cable Description | Length (m) | From Port | То |
|---------------------------------|------------|-----------|-----|
| Unshielded Detachable USB Cable | 0.5 | Adapter | EUT |

Block Diagram of Test Setup

For conducted emission



FCC Part 15C Page 5 of 20

SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|-------------------------|-----------------------------------|------------|
| FCC§1.1310 & §2.1091 | Maximum Permissible Exposure(MPE) | Compliance |
| FCC§15.203 | Antenna Requirement Complian | |
| FCC§15.207 | AC Line Conducted Emission | Compliance |
| §15.209 §15.205 | Radiated Emission Test | Compliance |

Report No.: SZ3210316-06921E-00

FCC Part 15C Page 6 of 20

TEST EQUIPMENT LIST

| Manufacturer | Description Model Serial Number | | Calibration Date | Calibration Due Date | | |
|-------------------|---------------------------------|---------------------|----------------------------|-------------------------|------------|--|
| MPE | | | | | | |
| Narda | Exposure Level Tester | ELT-400 | N-0229 | 2019/11/19 | 2021/11/18 | |
| Narda | B Field Probe | ELT Probe 100cm2 | M-0666 | 2019/11/19 | 2021/11/18 | |
| ETS-Lindgreen | Field Probe | HI-6005 | 6564158 | 2019/12/10 | 2022/12/09 | |
| | Co | onducted Emissions | s Test | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101120 | 2020/08/04 | 2021/08/03 | |
| Rohde & Schwarz | LISN | ENV216 | 101613 | 2020/08/04 | 2021/08/03 | |
| Rohde & Schwarz | Transient Limitor | ESH3Z2 | DE25985 | 2020/11/29 | 2021/11/28 | |
| Unknown | CE Cable | CE Cable | UF A210B-1- 0720-504504 | 2020/11/29 | 2021/11/28 | |
| Rohde & Schwarz | CE Test software | EMC 32 | V8.53.0 | NCR | NCR | |
| | | RF Radiated tes | t | | | |
| R&S | EMI Test Receiver | ESR3 | 102455 | 2020/08/04 | 2021/08/03 | |
| Sonoma instrument | Pre-amplifier | 310 N | 186238 | 2020/08/04 | 2021/08/03 | |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-2 | 2020/12/22 | 2023/12/21 | |
| ETS | Passive Loop Antenna | 6512 | 29604 | 2018/07/14 | 2021/07/13 | |
| Unknown | Cable | Chamber Cable 4 | EC-007 | 2020/11/29 | 2021/11/28 | |
| Rohde & Schwarz | Auto test software | EMC 32 | V9.10 | NCR | NCR | |

Report No.: SZ3210316-06921E-00

FCC Part 15C Page 7 of 20

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Report No.: SZ3210316-06921E-00

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) Limits for General Population/Uncontrolled Exposure | | | | | |
|---|----------------------------------|--------------------------|-----------|----|--|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Averaging Time (minutes) | | | |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 | |
| 1.34–30 | 824/f | 2.19/f | *(180/f²) | 30 | |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 | |
| 300–1500 | / | / | f/1500 | 30 | |
| 1500-100,000 | / | / | 1.0 | 30 | |

f = frequency in MHz; * = Plane-wave equivalent power density;

According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 clause 3 c)

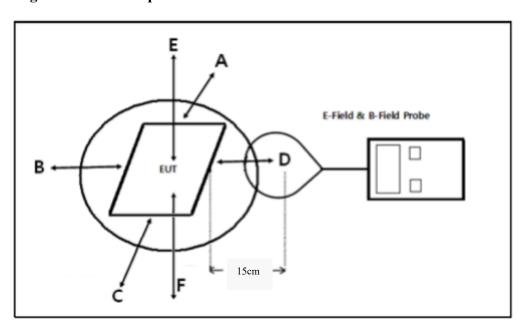
c) For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

According to KDB 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5 b)

- b) Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC ²or a PAG³ for equipment approved using certification to address RF exposure compliance. However, the responsible party is required to keep a copy of the test report in accordance with KDB 865664 D02. A copy of the test report is to be submitted with the application if the device is approved using certification.
 - (1) Power transfer frequency is less than 1 MHz
 - (2) Output power from each primary coil is less than or equal to 15 watts.
 - (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
 - (4) Client device is placed directly in contact with the transmitter.
 - (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
 - (6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

FCC Part 15C Page 8 of 20

Block Diagram of Test Setup



Report No.: SZ3210316-06921E-00

Note: 20 cm for Top test.

Test Data

Environmental Conditions

| Temperature: | 25.6 °C |
|--------------------|-----------|
| Relative Humidity: | 56 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Blaker Zhang on 2021-04-13.

Test Mode: Wireless Charging

FCC Part 15C Page 9 of 20

H-Field Strength

| Frequency | Position | Position | Position | Position | Position | 50% | Limit (A/m) |
|-----------|----------|----------|----------|----------|----------|-------|-------------|
| Range | A | B | C | D | E | Limit | |
| (kHz) | (A/m) | (A/m) | (A/m) | (A/m) | (A/m) | (A/m) | |
| 110-205 | 0.262 | 0.252 | 0.253 | 0.249 | 0.253 | 0.815 | 1.63 |

Report No.: SZ3210316-06921E-00

E-Field Strength

| Frequency Range (kHz) | Position A (V/m) | Position B (V/m) | Position C (V/m) | Position D (V/m) | Position E (V/m) | 50% Limit (V/m) | Limit (V/m) |
|-----------------------------|------------------------|------------------------|------------------------|------------------|------------------------|-----------------------|----------------|
| 110-205 | 1.156 | 1.139 | 1.185 | 1.073 | 1.134 | 307 | 614 |

Note: Test with 15cm distance from the center of the probe(s) to the edge of the device, 20 cm for top test.

Result: Pass

Considerations of compliance 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5 b:

(1) Power transfer frequency is less than 1 MHz.

Yes, the operation frequency is 110-205 kHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of primary coil is 10Watts.

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

The transfer system includes one primary coils to detect and allow coupling only between individual pairs of coils.

(4) Client device is placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, mobile exposure conditions only

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Yes, the test result for H and E-Field strength less than 50% of the MPE limit.

FCC Part 15C Page 10 of 20

FCC§15.203 – ANTENNA REQUIREMENT

Applicable Standard

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.

Report No.: SZ3210316-06921E-00

Antenna Connected Construction

The EUT has one coil antenna arrangement, which was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Pass

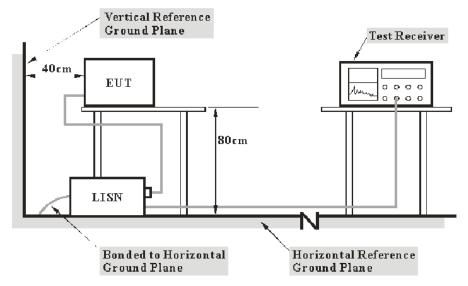
FCC Part 15C Page 11 of 20

FCC §15.207 – AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

EUT Setup



Report No.: SZ3210316-06921E-00

Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

FCC Part 15C Page 12 of 20

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Report No.: SZ3210316-06921E-00

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

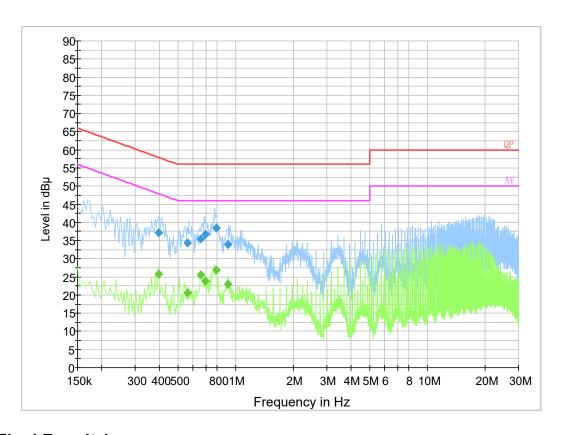
| Temperature: | 25 °C |
|--------------------|-----------|
| Relative Humidity: | 65 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Haiguo Li on 2021-04-03.

Test Mode: Wireless Charging

FCC Part 15C Page 13 of 20

AC 120 V/60 Hz, Line:



Report No.: SZ3210316-06921E-00

Final Result 1

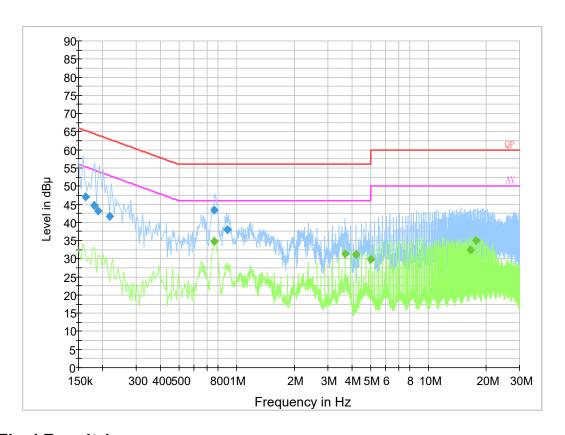
| Frequency (MHz) | QuasiPeak (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|--------------------|-----------------------|--------------------|------|---------------|----------------|-------------------|
| 0.396030 | 37.2 | 9.000 | L1 | 19.9 | 20.7 | 57.9 |
| 0.561450 | 34.3 | 9.000 | L1 | 19.8 | 21.7 | 56.0 |
| 0.660190 | 35.5 | 9.000 | L1 | 19.8 | 20.5 | 56.0 |
| 0.695650 | 36.7 | 9.000 | L1 | 19.8 | 19.3 | 56.0 |
| 0.790270 | 38.5 | 9.000 | L1 | 19.8 | 17.5 | 56.0 |
| 0.912170 | 34.0 | 9.000 | L1 | 19.8 | 22.0 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) | | |
|--------------------|---------------------|--------------------|------|---------------|----------------|-------------------|--|--|
| 0.396030 | 25.8 | 9.000 | L1 | 19.9 | 22.1 | 47.9 | | |
| 0.561450 | 20.5 | 9.000 | L1 | 19.8 | 25.5 | 46.0 | | |
| 0.660190 | 25.7 | 9.000 | L1 | 19.8 | 20.3 | 46.0 | | |
| 0.695650 | 23.9 | 9.000 | L1 | 19.8 | 22.1 | 46.0 | | |
| 0.790270 | 26.8 | 9.000 | L1 | 19.8 | 19.2 | 46.0 | | |
| 0.912170 | 23.1 | 9.000 | L1 | 19.8 | 22.9 | 46.0 | | |

FCC Part 15C Page 14 of 20

AC 120V/ 60 Hz, Neutral:



Report No.: SZ3210316-06921E-00

Final Result 1

| Frequency (MHz) | QuasiPeak (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|--------------------|-----------------------|--------------------|------|---------------|----------------|-------------------|
| 0.162500 | 47.0 | 9.000 | N | 19.8 | 18.3 | 65.3 |
| 0.181500 | 44.7 | 9.000 | N | 19.8 | 19.7 | 64.4 |
| 0.189500 | 43.1 | 9.000 | N | 19.8 | 21.0 | 64.1 |
| 0.217500 | 41.7 | 9.000 | N | 19.8 | 21.2 | 62.9 |
| 0.762450 | 43.4 | 9.000 | N | 19.8 | 12.6 | 56.0 |
| 0.900650 | 37.9 | 9.000 | N | 19.7 | 18.1 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|--------------------|---------------------|--------------------|------|---------------|----------------|-------------------|
| 0.766000 | 34.9 | 9.000 | N | 19.8 | 11.1 | 46.0 |
| 3.682000 | 31.4 | 9.000 | N | 19.9 | 14.6 | 46.0 |
| 4.210000 | 31.2 | 9.000 | N | 19.9 | 14.8 | 46.0 |
| 4.998000 | 29.8 | 9.000 | N | 19.9 | 16.2 | 46.0 |
| 16.702000 | 32.5 | 9.000 | N | 20.1 | 17.5 | 50.0 |
| 17.758000 | 35.1 | 9.000 | N | 20.2 | 14.9 | 50.0 |

FCC Part 15C Page 15 of 20

FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.209

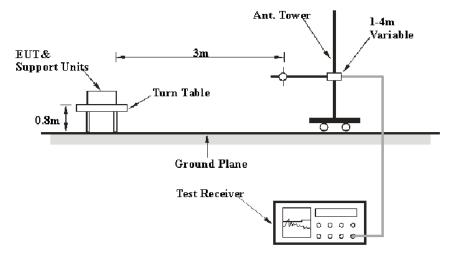
(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Report No.: SZ3210316-06921E-00

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

^{**}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permItted under other sections of this part, e.g., §§15.231 and 15.241.

EUT Setup



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

FCC Part 15C Page 16 of 20

EMI Test Receiver Setup

During the radiated emission test, the EMI test Receiver was set with the following configurations:

| Frequency Range | RBW | Video B/W | Measurement | |
|-------------------|---------|-----------|-------------|--|
| 9 kHz – 150 kHz | 300 Hz | 1 kHz | PK | |
| 150 kHz – 30 MHz | 10 kHz | 30 kHz | PK | |
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | QP | |

Report No.: SZ3210316-06921E-00

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit - Corr. Ampl.

Test Data

Environmental Conditions

| Temperature: | 25 °C |
|--------------------|-----------|
| Relative Humidity: | 52 % |
| ATM Pressure: | 101.1 kPa |

The testing was performed by Kilroy Deng from 20201-04-02 to 2021-04-08.

Test Mode: Wireless Charging

Note: Pre-scan EUT in x-axis, y-axis, z-axis, the worst case as below.

FCC Part 15C Page 17 of 20

9 kHz~30MHz:

| Frequency | Corrected | DIZ/OD/A | Turntable | RX Antenna | FCC Part 1 | 15.205&15.209 | Damasılı |
|-----------|-----------------------|------------|-----------|---------------|-------------------|----------------|-------------|
| (MHz) | Amplitude (dBμV/m) | PK/QP/Ave. | Degree | Height (m) | Limit (dBµV/m) | Margin (dB) | Remark |
| 0.121130 | 84.42 | PK | 215 | 1.0 | 105.94 | 21.52 | Fundamental |
| 0.00971 | 60.40 | PK | 215 | 1.0 | 127.86 | 67.46 | |
| 0.06787 | 53.23 | PK | 215 | 1.0 | 110.97 | 57.74 | |
| 0.344 | 65.26 | PK | 215 | 1.0 | 96.87 | 31.61 | Spurious |
| 0.258 | 58.19 | PK | 215 | 1.0 | 99.37 | 41.18 | Emission |
| 0.604 | 55.31 | PK | 215 | 1.0 | 71.98 | 16.67 | |
| 28.855 | 50.87 | PK | 215 | 1.0 | 69.54 | 18.67 | |

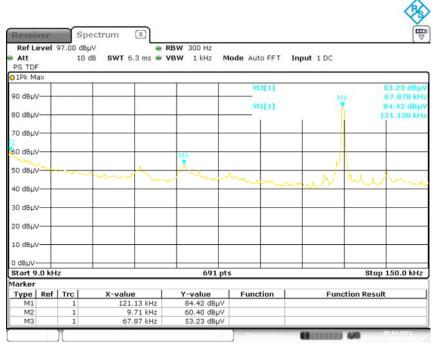
Report No.: SZ3210316-06921E-00

Note: PK detector data compliance with QP and average detector limit.

FCC Part 15C Page 18 of 20

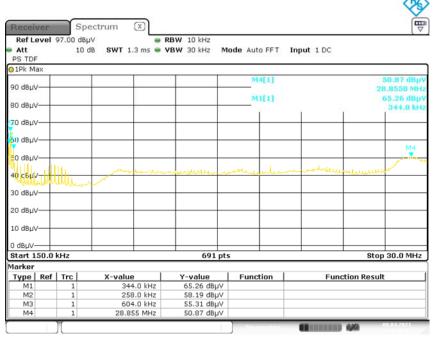
9 kHz-150 kHz

Report No.: SZ3210316-06921E-00



Date: 8.APR.2021 01:49:10

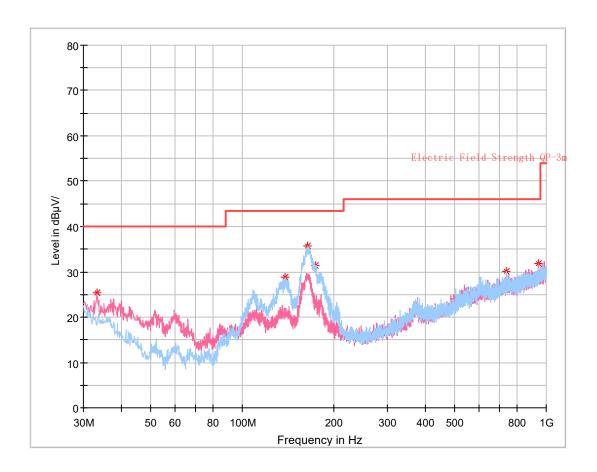
150 kHz-30 MHz



Date: 8.APR.2021 01:46:12

FCC Part 15C Page 19 of 20

30MHz~1GHz:



Report No.: SZ3210316-06921E-00

Critical_Freqs

| Frequency (MHz) | MaxPeak (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|--------------------|-----------------------|---------------------|----------------|-------------|-----|---------------|---------------|
| 33.152500 | 25.37 | 40.00 | 14.63 | 400.0 | V | 0.0 | -6.0 |
| 137.791250 | 28.81 | 43.50 | 14.69 | 300.0 | Η | 218.0 | -10.6 |
| 163.617500 | 35.62 | 43.50 | 7.88 | 300.0 | Η | 187.0 | -12.0 |
| 174.287500 | 31.49 | 43.50 | 12.01 | 300.0 | Н | 0.0 | -12.1 |
| 740.040000 | 30.21 | 46.00 | 15.79 | 100.0 | Η | 153.0 | -0.7 |
| 940.345000 | 31.81 | 46.00 | 14.19 | 100.0 | ٧ | 0.0 | 1.5 |

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

FCC Part 15C Page 20 of 20