

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

WIRELESS CHARGER UNIT

Model: GN819-***** (* =0~9)

Trade Name: UNIMAX

Issued to

Unimax Communications
15, Li-Te Rd., Beitou Dist., 112 Taipei City, Taiwan

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan. (R.O.C.)
Issued Date: September 29, 2022

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|--------------------|----------------------------------|-------------|------------|
| 00 | September 21, 2022 | Initial Issue | ALL | Doris Chu |
| 01 | September 29, 2022 | See the following Note Rev. (01) | P.14, P.23 | Doris Chu |

Rev. (01)

1. Revised Test Procedure in section 7.1.
2. Revised test results in section 7.1.
3. Added Antenna Specification in section 7.4.

TABLE OF CONTENTS

| | |
|--|------------|
| 1. TEST RESULT CERTIFICATION | 4 |
| 2. EUT DESCRIPTION | 5 |
| 3. TEST SUMMARY | 6 |
| 4. TEST METHODOLOGY | 7 |
| 4.1 EUT CONFIGURATION | 7 |
| 4.2 EUT EXERCISE | 7 |
| 4.3 GENERAL TEST PROCEDURES | 7 |
| 4.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS | 8 |
| 4.5 DESCRIPTION OF TEST MODES | 9 |
| 5. INSTRUMENT CALIBRATION | 10 |
| 5.1 MEASURING INSTRUMENT CALIBRATION | 10 |
| 5.2 MEASUREMENT EQUIPMENT USED | 10 |
| 5.3 MEASUREMENT UNCERTAINTY | 12 |
| 5.4 FACILITIES AND TEST LOCATION | 12 |
| 6. SETUP OF EQUIPMENT UNDER TEST | 13 |
| 6.1 SETUP CONFIGURATION OF EUT | 13 |
| 6.2 SUPPORT EQUIPMENT | 13 |
| 7. TEST REQUIREMENTS | 14 |
| 7.1 20DB BANDWIDTH | 14 |
| 7.2 TRANSMITTER RADIATED EMISSION | 16 |
| 7.3 AC CONDUCTED EMISSION | 22 |
| 7.4 ANTENNA REQUIREMENT | 23 |
| APPENDIX A PHOTOGRAPHS OF TEST SETUP | A-1 |
| APPENDIX 1 - PHOTOGRAPHS OF EUT | |

Report No.: TMWK2201000079KR

1. TEST RESULT CERTIFICATION

Applicant: Unimax Communications
15, Li-Te Rd., Beitou Dist., 112 Taipei City, Taiwan

Manufacturer: Unimax Communications
15, Li-Te Rd., Beitou Dist., 112 Taipei City, Taiwan

Factory: ASKEY TECHNOLOGY (JIANGSU) LTD.
NO.1388, Jiao Tong Road, Wu Jiang Economic-Technological
Development Area, Jiangsu Province 215200, P.R.C

Equipment Under Test: WIRELESS CHARGER UNIT

Trade Name: UNIMAX

Model: GN819-***** (* =0~9)

Date of Test: January 19 ~ February 17, 2022

| APPLICABLE STANDARDS | |
|---|-------------|
| STANDARD | TEST RESULT |
| FCC 47 CFR Part 15.209 | Compliance |
| Statements of Conformity | |
| Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty. | |

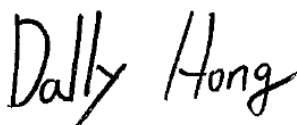
We hereby certify that:

All test results conform to above mentioned standards.

The above equipment was tested by Compliance Certification Services Inc. 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 the requirements of FCC Rules Part15.203, Part15.207, Part15.209. Part15.215.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:



Dally Hong
Sr. Engineer
Compliance Certification Services Inc.

Report No.: TMWK2201000079KR

2. EUT DESCRIPTION

| | |
|----------------------------|---|
| Product | WIRELESS CHARGER UNIT |
| Trade Name | UNIMAX |
| Model Number | GN819-***** (* =0~9) |
| Model Discrepancy | The suffix of “*” (* = 0~9) on model number is just for marketing purpose only. |
| Received Date | January 7, 2022 |
| Power Supply | Power from Power Supply. |
| Frequency Band | 110 ~ 205KHz |
| Antenna Designation | Coil Antenna |

Remark:

1. For more details, refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: Variant information between/among model numbers / trademarks are provided by the applicant, test results of this report are applicable to the sample EUT received of main test model name.

3. TEST SUMMARY

| Standard Sec. | Chapter | Test Item | Result |
|---------------|---------|----------------------------------|--------|
| 15.215 | 7.1 | 20dB Bandwidth | Pass |
| 15.209 | 7.2 | Transmitter Radiated Emission | Pass |
| 15.207 | 7.3 | AC Power-line Conducted Emission | N/A |
| 15.203 | 7.4 | Antenna Requirement | Pass |

Report No.: TMWK2201000079KR

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013, ANSI C63.4 2014 and FCC CFR 47 Part 15.203, 15.207, 15.209, 15.215.

4.1 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.

4.2 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 its specifications, the EUT must comply with the requirements of the Section 15.203, 15.207, 15.209, 15.215 under the FCC Rules Part 15 Subpart C and ANSI C63.10: 2013.

4.3 GENERAL TEST PROCEDURES

Conducted Emissions

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

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. The 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 ANSI C63.10: 2013.

Report No.: TMWK2201000079KR

4.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in other rules, 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 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 - 335.4 | | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided by other rules, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

Report No.: TMWK2201000079KR

4.5 DESCRIPTION OF TEST MODES

The EUT (model: GN819-00680) had been tested under operating condition.

| Radiated Emission Measurement Below 1G | |
|--|--|
| Test Condition | Radiated Emission Below 1G |
| Power supply Mode | Mode 1: EUT power by Power supply |
| Worst Mode | <input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4 |

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report

Report No.: TMWK2201000079KR

5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

| RF Conducted Test Site | | | | | |
|------------------------|--------------|---------|--------------|------------|------------|
| Equipment | Manufacturer | Model | S/N | Cal Date | Cal Due |
| LOOP ANTENNA | COM-POWER | AL-130 | 121051 | 04/07/2021 | 04/06/2022 |
| EXA Signal Analyzer | KEYSIGHT | N9010B | MY55460167 | 05/25/2021 | 05/24/2022 |
| Digital Multimers | FLUKE | 87V | 24860499 | 12/07/2021 | 12/06/2022 |
| DC Power Source | Motech | PPS1208 | 120033120005 | N.C.R | N.C.R |
| Software | N/A | | | | |

| AC Power Line Conducted Test Room | | | | | |
|-----------------------------------|--------------|-------|-----|----------|---------|
| Equipment | Manufacturer | Model | S/N | Cal Date | Cal Due |
| N/A | | | | | |

Report No.: TMWK2201000079KR

| 3M 966 Chamber Test Site | | | | | |
|----------------------------------|------------------|--------------------|--------------|------------|------------|
| Equipment | Manufacturer | Model | S/N | Cal Date | Cal Due |
| Bilog Antenna | Sunol Sciences | JB1 | A052609 | 02/22/2021 | 02/21/2022 |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 07/19/2021 | 07/18/2022 |
| Cable | HUBER SUHNER | SUCOFLEX 104PEA | 23452 | 06/28/2021 | 06/27/2022 |
| Cable | HUBER SUHNER | SUCOFLEX 104PEA | 33960 | 06/28/2021 | 06/27/2022 |
| Digital Thermo-Hygro Meter | WISEWIND | 1110 | D06 | 12/28/2021 | 12/27/2022 |
| Pre-Amplifier | Anritsu | MH648A | M89145 | 06/28/2021 | 06/27/2022 |
| Loop Ant | COM-POWER | AL-130 | 121051 | 04/07/2021 | 04/06/2022 |
| Signal Analyzer | R&S | FSV 40 | 101561 | 08/11/2021 | 08/10/2022 |
| Digital Multimers | FLUKE | 87V | 24860499 | 12/07/2021 | 12/06/2022 |
| DC Power Source | Motech | PPS1208 | 120033120005 | N.C.R | N.C.R |
| S.G. | Agilent | E8257C | US42340383 | 07/13/2021 | 07/12/2022 |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R | N.C.R |
| Controller | CCS | CC-C-1F | N/A | N.C.R | N.C.R |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R | N.C.R |
| Software | e3 6.11-20180413 | | | | |

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

5.3 MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| AC Powerline Conducted Emission | +/- 2.1183 |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.12 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 4.68 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 5.18 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 5.47 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 3.81 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 3.87 |
| Channel Bandwidth | +/- 1.8006 |

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

5.4 Facilities and Test location

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)
CAB identifier: TW1309

| Test site | Test Engineer | Remark |
|--------------------|-------------------|---|
| AC Conduction Room | - | Not applicable, because EUT not connect to AC Main Source direct. |
| Radiation | Ray Li, Tony Chao | - |
| Conducted | Jack Chen | - |

Remark: The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

Report No.: TMWK2201000079KR

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

| No. | Device Type | Brand | Model | Series No. | FCC ID |
|-----|-------------|-----------|----------------------|------------|--------|
| 1 | Mobile | Google | Pixel 5 | N/A | N/A |
| 2 | LED Board | UNIMAX | W1_IO | N/A | N/A |
| 3 | Power Cable | GreatLink | GEPD-AUTX-0003 3W | N/A | N/A |
| 4 | IO Cable | GreatLink | GEPD-AUTX-0015 4W | N/A | N/A |

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

Report No.: TMWK2201000079KR

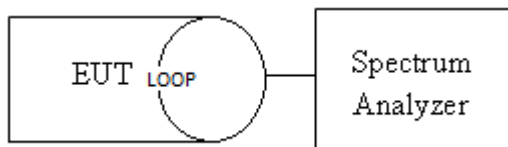
7. TEST REQUIREMENTS

7.1 20dB BANDWIDTH

Definition

According to FCC Part 15.215 (c) ,Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Configuration



TEST PROCEDURE

The Loop antenna connected to the spectrum analyzer, was touching to the transmitter antenna. Set the RBW= 1kHz, VBW= 3kHz, Detector = Peak, Trace mode = Max hold, Sweep = 500ms. Measure the maximum width of the emission that is constrained by the frequencies associated with the Occupied Bandwidth.

TEST RESULTS

No non-compliance noted

Temperature: 20.4°C

Test Date: January 21, 2022

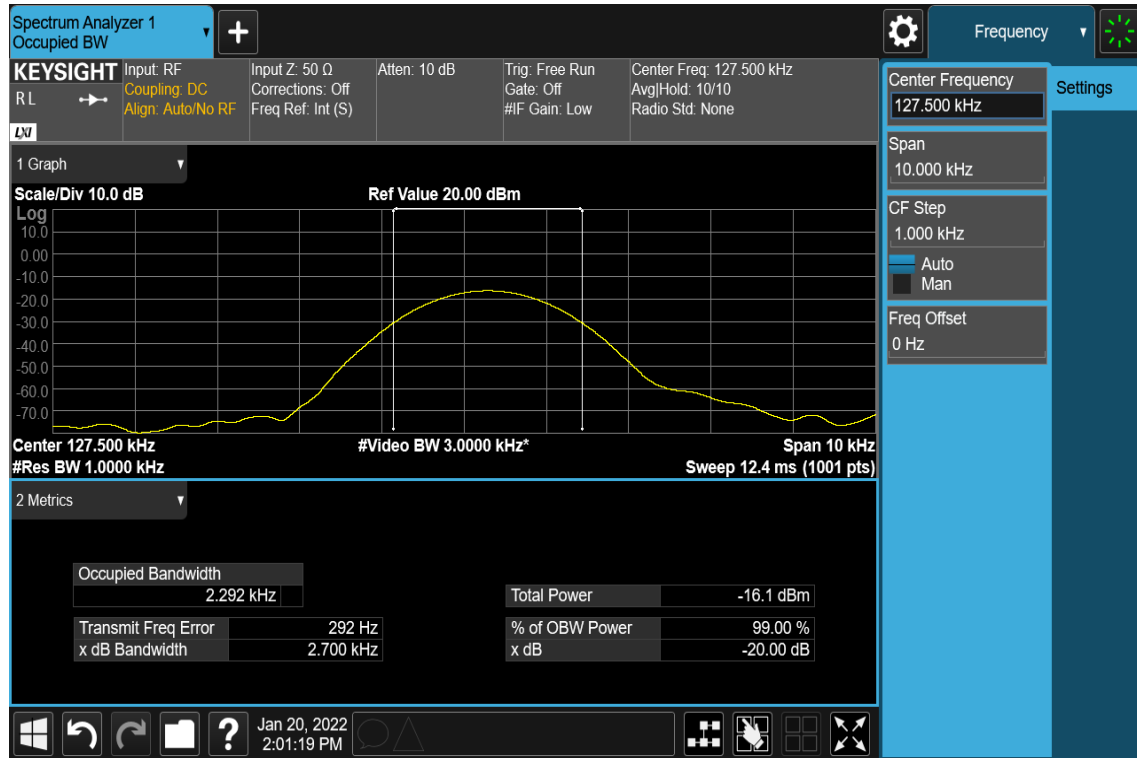
Humidity: 58% RH

Tested by: Jack Chen

| Occupied Channel Bandwidth Result | | | | | | |
|-----------------------------------|----------------|---------------------|-----------------------|-------------------------|---------------------------------|----------------------------------|
| Modulation Mode | Frequency (Fc) | 99% Bandwidth (kHz) | F _{SL} (kHz) | F _L BW (kHz) | F _H at 20dB BW (kHz) | F _{SH} at 20dB BW (kHz) |
| Full charging loading | 127.5 | 2.292 | 126.354 | 128.646 | 126.15 | 128.85 |
| Limit | | N/A | N/A | N/A | N/A | N/A |
| Result | | Complied | | | | |

Report No.: TMWK2201000079KR

Test Data 20dB & 99%OBW



Report No.: TMWK2201000079KR

7.2 TRANSMITTER RADIATED EMISSION

LIMIT

1. According to 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:

| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 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 |

Remark: Except as provided in other rules, 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., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Below 30MHz

| Frequency (MHz) | Field Strength | | Measurement Distance (meter) | Field Strength (dB $\mu\text{V/m}$) | Measurement Distance (meter) |
|-----------------|---------------------|-----------------------|------------------------------|--------------------------------------|------------------------------|
| | ($\mu\text{V/m}$) | (dB $\mu\text{V/m}$) | | | |
| 0.009 - 0.490 | 2400/F(kHz) | 48.52 – 13.80 | 300 | 128.52–93.80 | 3 |
| 0.490 - 1.705 | 24000/F(kHz) | 33.80 – 22.97 | 30 | 73.80– 62.97 | 3 |
| 1.705 – 30.0 | 30 | 29.54 | 30 | 69.54 | 3 |

Remark: According to Part 15.31(f)(2), the transfer formula as below:

Limit@3m= 20log(Limit@300m) + 40log (Limit define distance(300m)/ (Measurement distance(3m)))

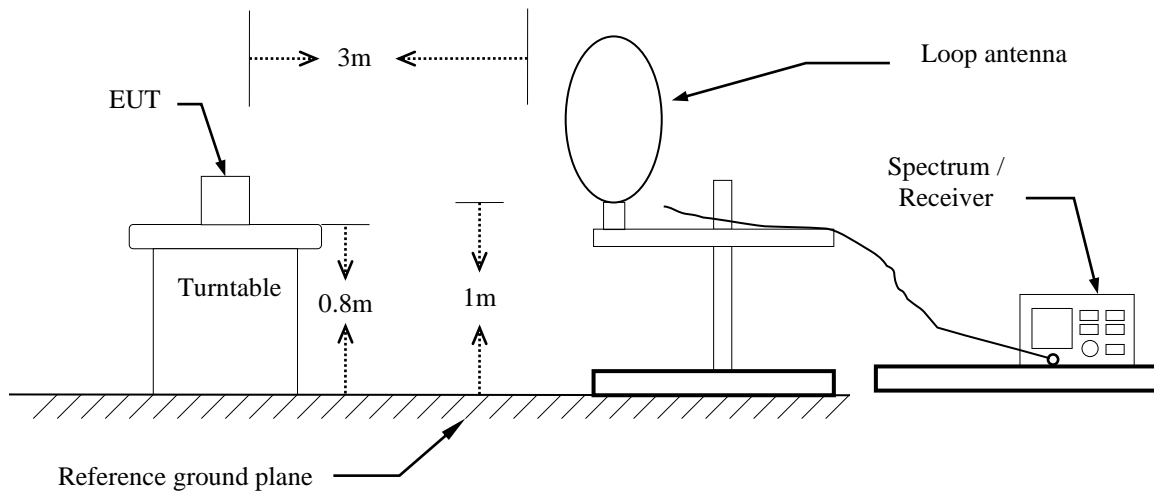
Above 30MHz

| Frequency (MHz) | Field Strength | | Measurement Distance (meter) |
|-----------------|---------------------|-----------------------|------------------------------|
| | ($\mu\text{V/m}$) | (dB $\mu\text{V/m}$) | |
| 30-88 | 100 | 40.0 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46.0 | 3 |
| Above 960 | 500 | 54.0 | 3 |

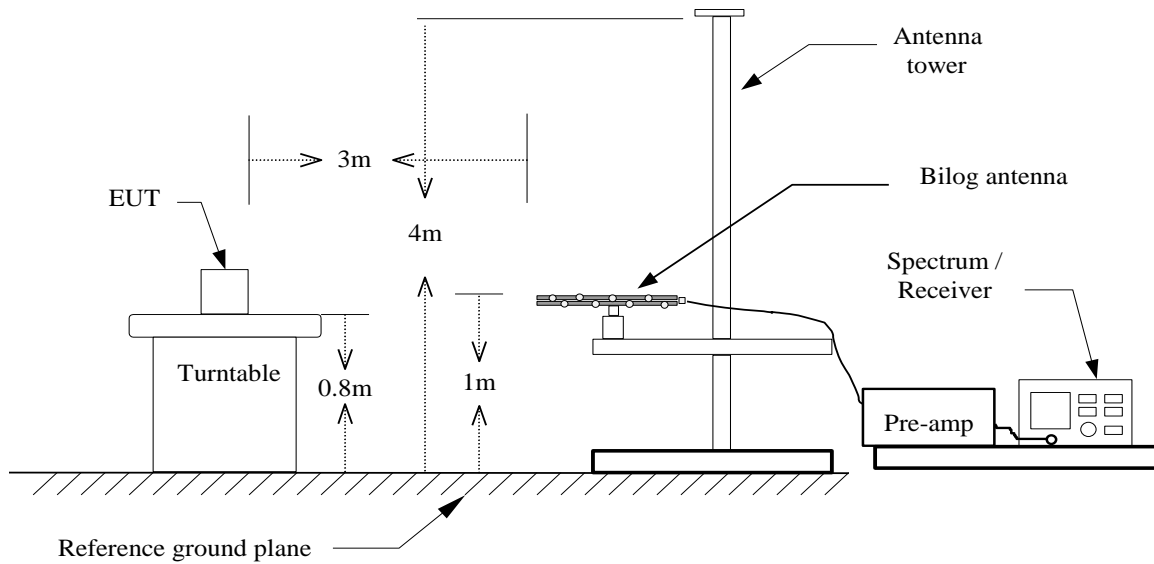
Report No.: TMWK2201000079KR

Test Configuration

9kHz ~ 30MHz



30MHz ~ 1GHz



Report No.: TMWK2201000079KR

TEST PROCEDURE

For 9KHz ~ 30MHz

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=200kHz / VBW=600kHz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.
8. Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

For 30MHz ~ 1GHz

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

Report No.: TMWK2201000079KR

9 kHz – 30MHz

Operation Mode: Charge mode

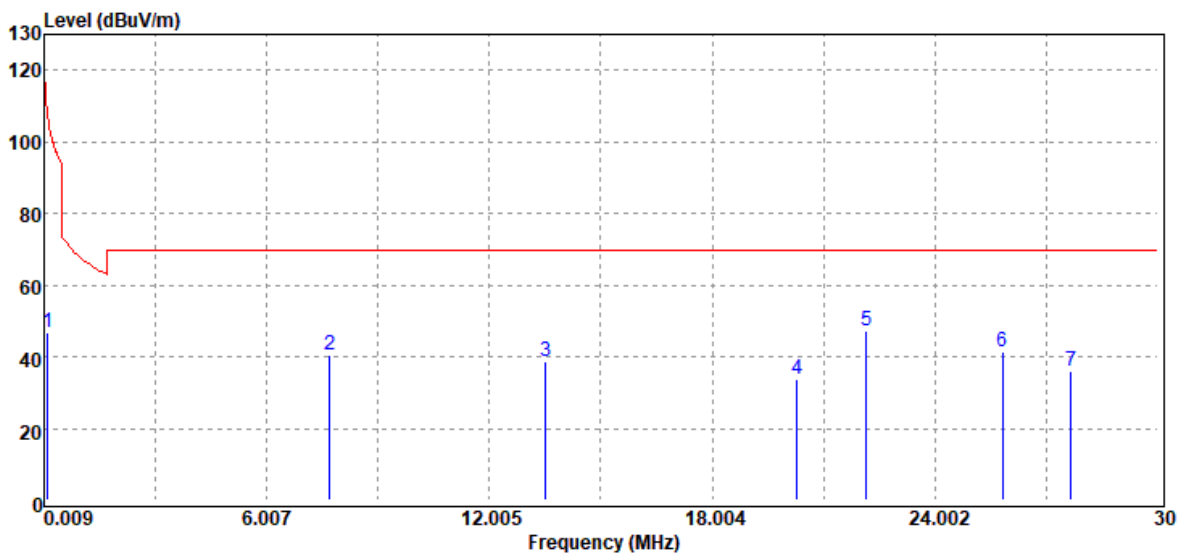
Test Date: January 19, 2022

Temperature: 21.4°C

Tested by: Tony Chao

Humidity: 55% RH

Antenna Pol.: Horizontal



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 0.112 | Peak | 33.95 | 12.67 | 46.62 | 106.67 | -60.05 |
| 7.702 | Peak | 25.55 | 15.07 | 40.62 | 69.54 | -28.92 |
| 13.523 | Peak | 23.30 | 15.27 | 38.57 | 69.54 | -30.97 |
| 20.299 | Peak | 18.46 | 15.12 | 33.58 | 69.54 | -35.96 |
| 22.149 | Peak | 32.32 | 14.72 | 47.04 | 69.54 | -22.50 |
| 25.821 | Peak | 27.55 | 14.00 | 41.55 | 69.54 | -27.99 |
| 27.672 | Peak | 22.13 | 13.68 | 35.81 | 69.54 | -33.73 |

Remark:

1. The frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR quasi-peak detector.
2. For 9-90kHz, 110kHz-490kHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.
For other frequencies, the Peak value was under the Quasi-peak limit, therefore the Quasi-peak value compliance with the limit. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.

Report No.: TMWK2201000079KR

Below 1 GHz

Operation Mode: Charge mode

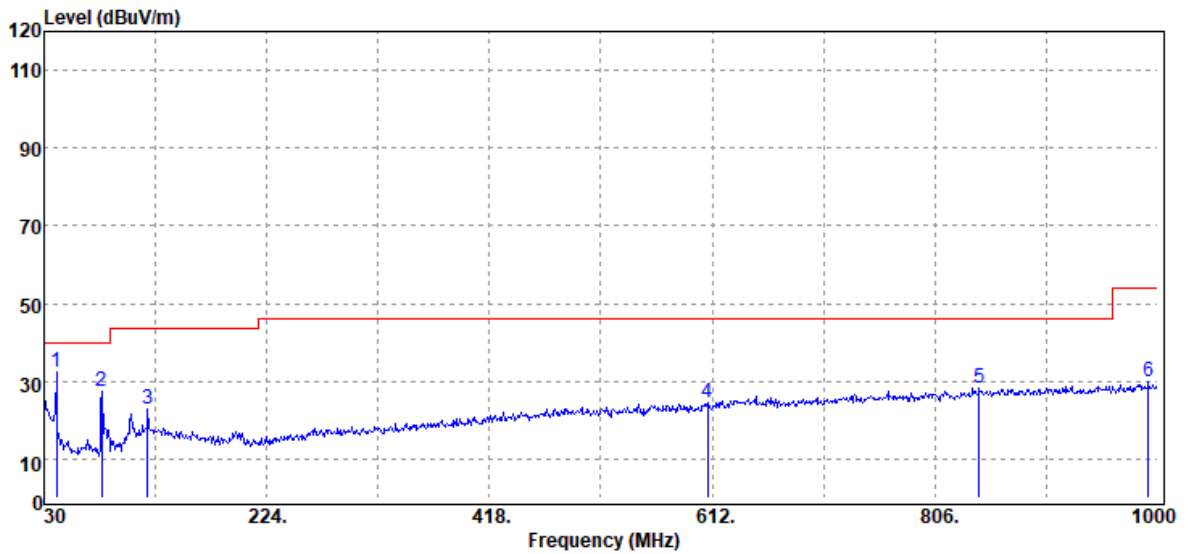
Test Date: February 17, 2022

Temperature: 21.6°C

Tested by: Ray Li

Humidity: 59% RH

Antenna Pol.: Vertical

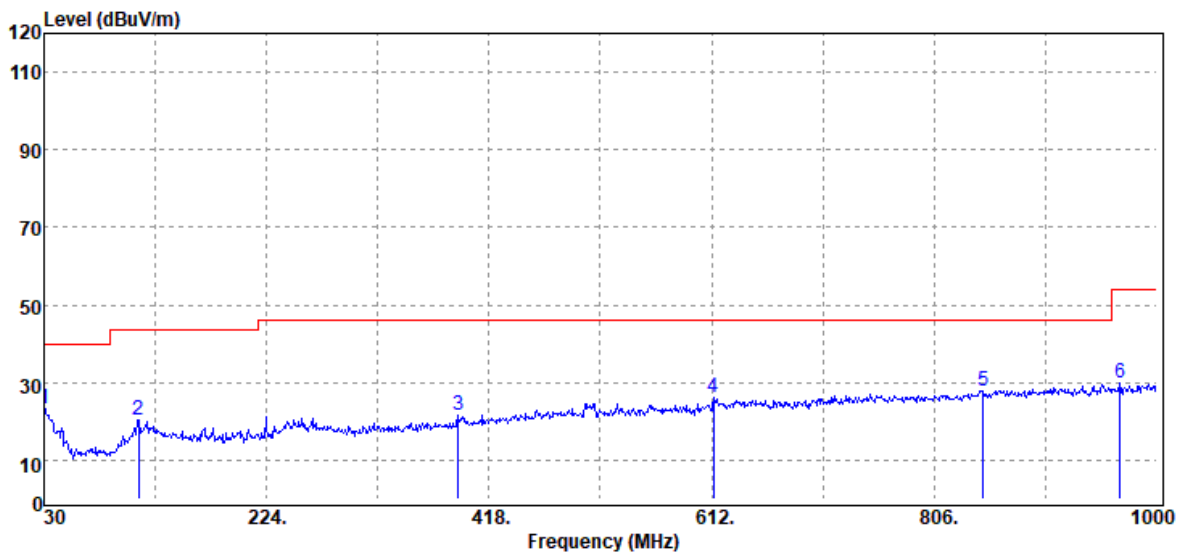


| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 40.67 | Peak | 42.52 | -10.33 | 32.19 | 40.00 | -7.81 |
| 80.44 | Peak | 43.04 | -15.72 | 27.32 | 40.00 | -12.68 |
| 120.21 | Peak | 31.89 | -9.19 | 22.70 | 43.50 | -20.80 |
| 608.12 | Peak | 26.40 | -1.75 | 24.65 | 46.00 | -21.35 |
| 844.80 | Peak | 25.98 | 2.25 | 28.23 | 46.00 | -17.77 |
| 992.24 | Peak | 25.28 | 4.41 | 29.69 | 54.00 | -24.31 |

Report No.: TMWK2201000079KR

Operation Mode: Charge mode
Temperature: 21.6°C
Humidity: 59% RH

Test Date: February 17, 2022
Tested by: Ray Li
Antenna Pol.: Horizontal



| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 30.00 | Peak | 25.78 | -2.54 | 23.24 | 40.00 | -16.76 |
| 112.45 | Peak | 30.42 | -10.07 | 20.35 | 43.50 | -23.15 |
| 390.84 | Peak | 27.96 | -6.40 | 21.56 | 46.00 | -24.44 |
| 613.94 | Peak | 27.75 | -1.59 | 26.16 | 46.00 | -19.84 |
| 848.68 | Peak | 25.52 | 2.23 | 27.75 | 46.00 | -18.25 |
| 967.99 | Peak | 25.90 | 3.89 | 29.79 | 54.00 | -24.21 |

Report No.: TMWK2201000079KR

7.3 AC CONDUCTED EMISSION

LIMIT

According to §15.207(a) , for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency Range (MHz) | Limits (dB μ V) | |
|-----------------------|---------------------|-----------|
| | 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 |

Test Configuration

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete

TEST RESULTS

Not applicable, because EUT not connect to AC Main Source direct.

7.4 ANTENNA REQUIREMENT

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 replaced 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 §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 §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.

| | |
|----------------------|--------------------|
| Antenna Brand | CHILISIN |
| Antenna model | ATWWAS564928TXA001 |
| Antenna type | Coil Antenna |

- End of Test Report -