



FCC PART 15C

TEST REPORT

For

JEM ACCESSORIES, INC

32 Brunswick Avenue Edison, NJ 08817, United States

FCC ID: 2AHAS-XBB80147

| | |
|--|---|
| Report Type: Original Report | Product Type: 10,000mAh Wireless Power Bank |
| Report Number: <u>SZ3210913-47553E-RF-00</u> | |
| Report Date: <u>2021-10-15</u> | |
| Reviewed By: <u>RF Engineer</u> | <i>Candy Li</i> |
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Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “★”.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

| | |
|------------------------|---|
| Product | 10,000mAh Wireless Power Bank |
| Tested Model | XBB8-0147 |
| Frequency Range | 110-205kHz |
| Maximum Wireless Power | 5W |
| Antenna Specification | Coil |
| Voltage Range | DC 5V from USB port or DC 3.7V from battery |
| Date of Test | 2021-09-23 to 2021-10-11 |
| Sample serial number | SZ3210913-47553E-RF-S1 |
| Received date | 2021-09-13 |
| Sample/EUT Status | Good Condition |

Objective

This 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 Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

| Item | | Expanded Measurement uncertainty |
|---------------------|------------|--|
| Conducted Emissions | AC Mains | 2.72 dB ($k=2$, 95% level of confidence) |
| | 9kHz-30MHz | 2.66 dB ($k=2$, 95% level of confidence) |
| | 30MHz-1GHz | 4.28 dB ($k=2$, 95% level of confidence) |

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 Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. 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.: 708358, the FCC Designation No.: CN1189.

The test site has been registered with ISED Canada under ISED Canada Registration Number 5077A-2.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a test mode

EUT Exercise Software

No software used in test.

Support Equipment List and Details

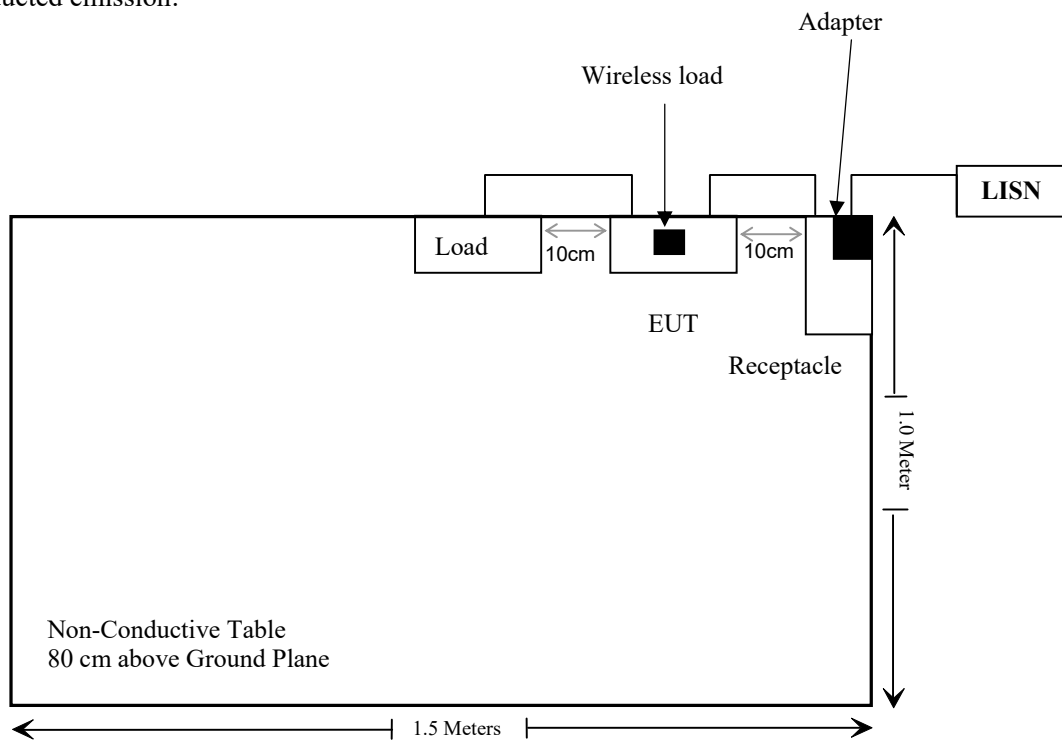
| Manufacturer | Description | Model | Serial Number |
|--------------|---------------|-----------------|-----------------|
| HD | Wireless load | E237212 | 1752 |
| HUAJIN | adapter | HU-0502000W2-US | HU-0502000W2-US |
| Unknown | Load | Unknown | Unknown |

External I/O Cable

| Cable Description | Length (m) | From Port | To |
|-------------------------------------|------------|-----------|------------|
| Un-shielding Un-Detachable AC Cable | 1.2 | LISN | Receptacle |
| Un-shielding Detachable USB Cable | 0.3 | Adapter | EUT |
| Un-shielding Detachable USB Cable | 0.5 | EUT | Load |

Block Diagram of Test Setup

For conducted emission:



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 | Compliance |
| FCC§15.207 | AC Line Conducted Emission | Compliance |
| §15.209 §15.205 | Radiated Emission Test | Compliance |

TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---------------------------|------------------------------|------------|---------------|------------------|----------------------|
| MPE | | | | | |
| NARDA | Magnetic field tester | 2300/90.10 | B-0137 | 2021/01/06 | 2024/01/05 |
| SCHWARZBECK | Vander Hoofden Test-Head | VDHH 9502 | 56 | 2020/12/25 | 2021/12/24 |
| ETS-Lindgreen | Isotropic Field Probe | HI—6005 | 69461 | 2018/9/28 | 2022/9/28 |
| Conducted Emission | | | | | |
| Rohde& Schwarz | Test Receiver | ESPI3 | 100396 | 2020/12/24 | 2021/12/23 |
| R & S | L.I.S.N. | ENV216 | 101314 | 2020/12/25 | 2021/12/24 |
| Anritsu Corp | 50ΩCoaxial Switch | MP59B | 6200506474 | 2020/12/25 | 2021/12/24 |
| Rohde & Schwarz | Test Software | ES-K1 | V1.71 | NCR | NCR |
| Radiated Emission | | | | | |
| Rohde& Schwarz | Test Receiver | ESR | 101817 | 2020/12/24 | 2021/12/23 |
| SONOMA INSTRUMENT | Amplifier | 310 N | 186131 | 2020/12/25 | 2021/12/24 |
| Anritsu Corp | 50 Coaxial Switch | MP59B | 6100237248 | 2020/12/25 | 2021/12/24 |
| Schwarzbeck | Bilog Antenna | VULB9163 | 9163-323 | 2020/01/05 | 2023/01/04 |
| SCHWARZBECK | LOOP ANTENNA | FMZB1516 | 1516131 | 2020/01/05 | 2023/01/04 |
| OREGON SCIENTIFIC | Temperature & Humidity Meter | JB913R | GZ-WS004 | 2021/01/02 | 2022/01/01 |
| Unknown | RF Coaxial Cable | N-5m | No.3 | 2020/12/25 | 2021/12/24 |
| Unknown | RF Coaxial Cable | N-1m | No.5 | 2020/12/25 | 2021/12/24 |
| FARAD | Test Software | EZ_EM C | V 1.1.4.2 | NCR | NCR |
| Rohde & Schwarz | Test Software | ES-K1 | V1.71 | NCR | NCR |

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. 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.

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) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Averaging Time (minutes) |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34–30 | 824/f | 2.19/f | *(180/f ²) | 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;

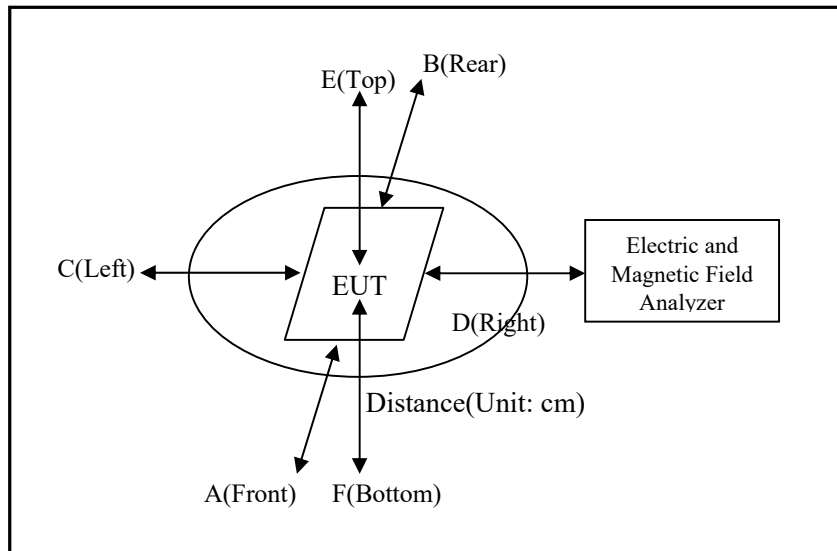
According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 clause 3 c)

- 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)

- (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.

Block Diagram of Test Setup



Note:

For mobile condition distance: A/B/C/D is 15cm; E is 20cm;

Test Data

Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 25.8 °C |
| Relative Humidity: | 54 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Black Ding on 2021-10-11.

Test mode: Full Load

H-Field Strength

| Frequency Range (kHz) | Position A (uT) | Position B (uT) | Position C (uT) | Position D (uT) | Position E (uT) | 50% Limit (uT) | Limit Test (uT) |
|-----------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|
| 110-205 | 0.249 | 0.230 | 0.306 | 0.221 | 0.186 | / | / |
| | Position A (A/m) | Position B (A/m) | Position C (A/m) | Position D (A/m) | Position E (A/m) | 50% Limit (A/m) | Limit Test (A/m) |
| | 0.199 | 0.184 | 0.245 | 0.177 | 0.149 | 0.815 | 1.63 |

Note: A/m = uT/1.25

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 Test (V/m) |
|-----------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|
| 110-205 | 0.457 | 0.441 | 0.483 | 0.425 | 0.546 | 307 | 614 |

Note:

For mobile condition distance: A/B/C/D is 15cm; E is 20cm;

Result: Compliance**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 5 Watts, less than 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.

The transfer system includes only single primary coil.

(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 at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

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

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.

Antenna Connected Construction

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

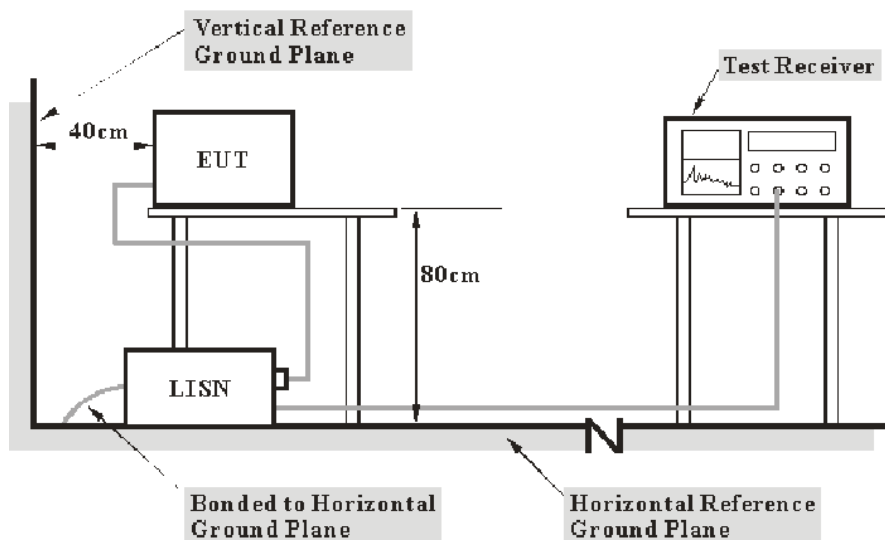
Result: Compliance.

FCC §15.207 – AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

EUT Setup



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.

Corrected Factor & Margin Calculation

The basic equation is as follows:

Level (QuasiPeak or Average) = Reading Level + Transd Factor

Note:

Transd Factor = Cable loss + Factor of coupling device

The “**Margin**” column of the following data tables indicates the degree of compliance within 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 – Level

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

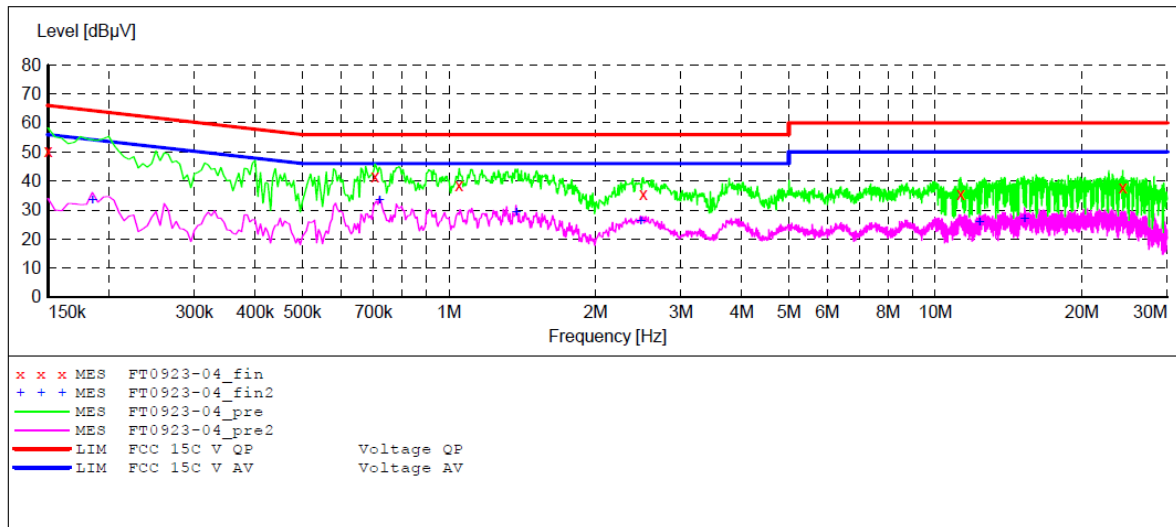
Test Data

Environmental Conditions

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

The testing was performed by Mo Chao on 2021-09-23.

Test mode: Full Load

AC 120 V/60 Hz, Line:**MEASUREMENT RESULT: "FT0923-04_fin"**

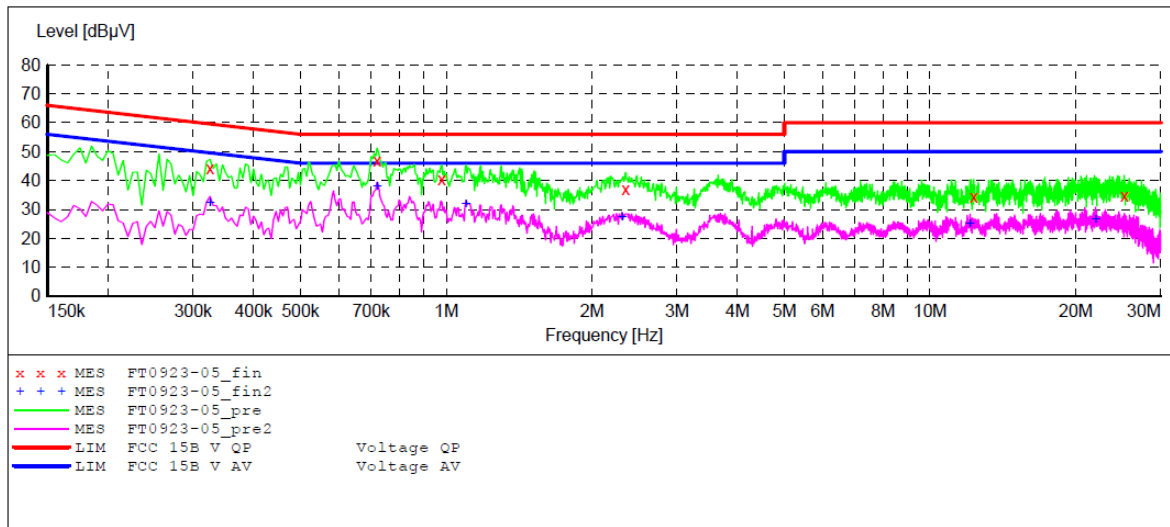
2021-9-23 05:05

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.150000 | 50.10 | 10.8 | 66 | 15.9 | QP | L1 | GND |
| 0.705000 | 41.40 | 11.1 | 56 | 14.6 | QP | L1 | GND |
| 1.050000 | 38.40 | 11.1 | 56 | 17.6 | QP | L1 | GND |
| 2.510000 | 35.60 | 11.3 | 56 | 20.4 | QP | L1 | GND |
| 11.275000 | 35.50 | 11.6 | 60 | 24.5 | QP | L1 | GND |
| 24.300000 | 37.60 | 11.7 | 60 | 22.4 | QP | L1 | GND |

MEASUREMENT RESULT: "FT0923-04_fin2"

2021-9-23 05:03

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.185000 | 33.40 | 10.8 | 54 | 20.6 | AV | L1 | GND |
| 0.720000 | 33.60 | 11.1 | 46 | 12.4 | AV | L1 | GND |
| 1.375000 | 29.30 | 11.2 | 46 | 16.7 | AV | L1 | GND |
| 2.480000 | 26.30 | 11.3 | 46 | 19.7 | AV | L1 | GND |
| 12.325000 | 25.90 | 11.6 | 50 | 24.1 | AV | L1 | GND |
| 15.275000 | 27.10 | 11.7 | 50 | 22.9 | AV | L1 | GND |

AC 120V/ 60 Hz, Neutral:**MEASUREMENT RESULT: "FT0923-05_fin"**

2021-9-23 05:08

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.325000 | 44.30 | 10.9 | 60 | 15.7 | QP | N | GND |
| 0.720000 | 46.80 | 11.1 | 56 | 9.2 | QP | N | GND |
| 0.980000 | 40.50 | 11.1 | 56 | 15.5 | QP | N | GND |
| 2.350000 | 37.10 | 11.3 | 56 | 18.9 | QP | N | GND |
| 12.325000 | 34.30 | 11.6 | 60 | 25.7 | QP | N | GND |
| 25.225000 | 34.70 | 11.7 | 60 | 25.3 | QP | N | GND |

MEASUREMENT RESULT: "FT0923-05_fin2"

2021-9-23 05:07

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.325000 | 32.60 | 10.9 | 50 | 17.4 | AV | N | GND |
| 0.720000 | 38.00 | 11.1 | 46 | 8.0 | AV | N | GND |
| 1.100000 | 32.00 | 11.1 | 46 | 14.0 | AV | N | GND |
| 2.310000 | 27.60 | 11.3 | 46 | 18.4 | AV | N | GND |
| 12.100000 | 25.00 | 11.6 | 50 | 25.0 | AV | N | GND |
| 22.025000 | 26.60 | 11.7 | 50 | 23.4 | AV | N | GND |

FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

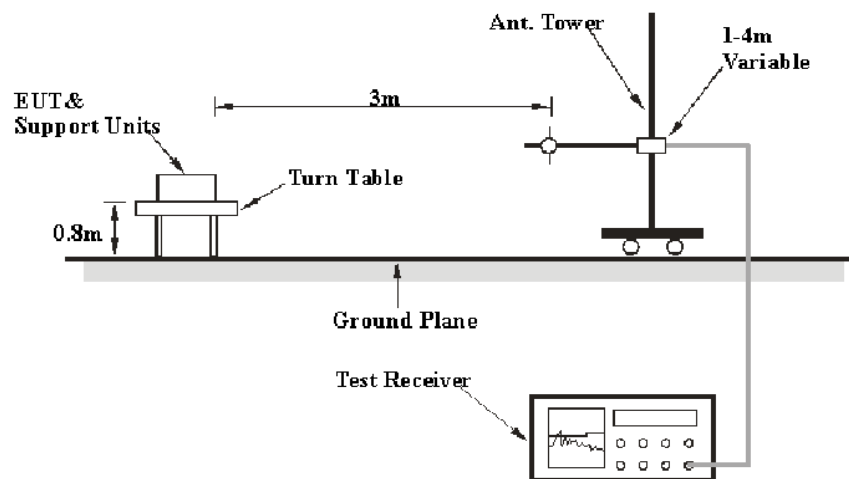
As per FCC Part 15.209

(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:

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

**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.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 1 GHz.

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 | 200 Hz | 1 kHz | QP/Average |
| 150 kHz – 30 MHz | 9 kHz | 30 kHz | QP/Average |
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | QP |

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. 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

For 9kHz-30MHz:

The basic equation is as follows:

Level (QuasiPeak or Average) = Reading Level + Transd Factor

Note:

Transd Factor = Cable loss + Factor of coupling device

The “**Margin**” column of the following data tables indicates the degree of compliance within 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 – Level

For above 30MHz:

The basic equation is as follows:

Result = Meter Reading+ Factor

Note:

Factor = 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 = Result - Limit

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209&15.205.

Test Data

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 21~23 °C |
| Relative Humidity: | 48~56 % |
| ATM Pressure: | 101.0 kPa |

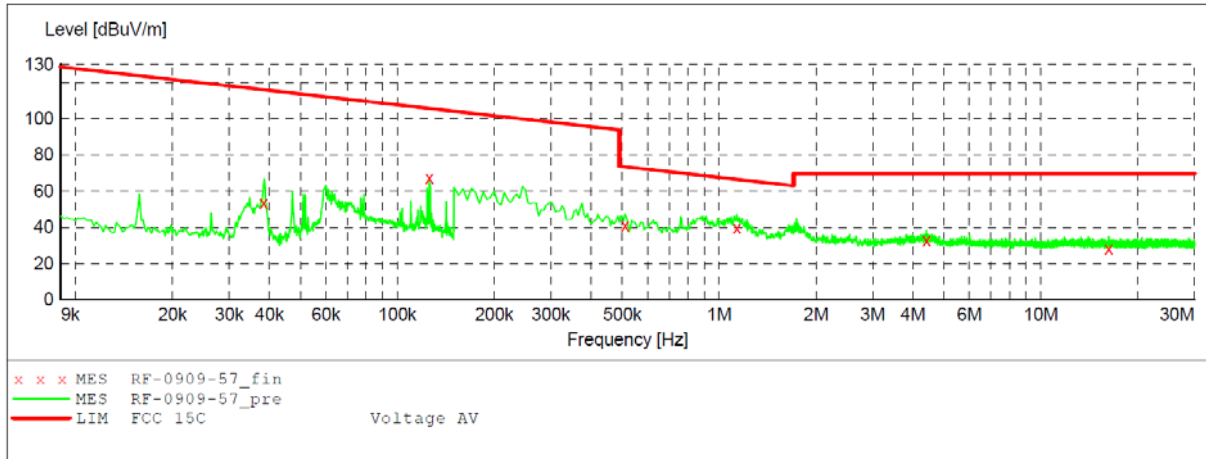
The testing was performed by Mo Chao on 2021-09-29.

Test mode: Full Load

Result: Compliance

9 kHz~30MHz:

Worst case (Full load, Z Axis) was recorded in the report.

**MEASUREMENT RESULT: "RF-0909-57_fin"**

2021-9-29 06:33

| Frequency MHz | Level dBuV/m | Transd dB | Limit dBuV/m | Margin dB | Det. | Height cm | Azimuth deg |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|
| 0.038200 | 53.70 | 20.1 | 112.9 | 59.2 | QP | 105.0 | 0.00 |
| 0.125600 | 67.30 | 20.1 | 105.6 | 38.3 | QP | 105.0 | 0.00 |
| 0.510000 | 40.90 | 20.3 | 73.5 | 32.6 | QP | 105.0 | 0.00 |
| 1.135000 | 39.90 | 20.4 | 66.5 | 26.6 | QP | 105.0 | 0.00 |
| 4.405000 | 32.80 | 20.5 | 69.5 | 36.7 | QP | 105.0 | 0.00 |
| 16.240000 | 28.00 | 21.2 | 69.5 | 41.5 | QP | 105.0 | 0.00 |

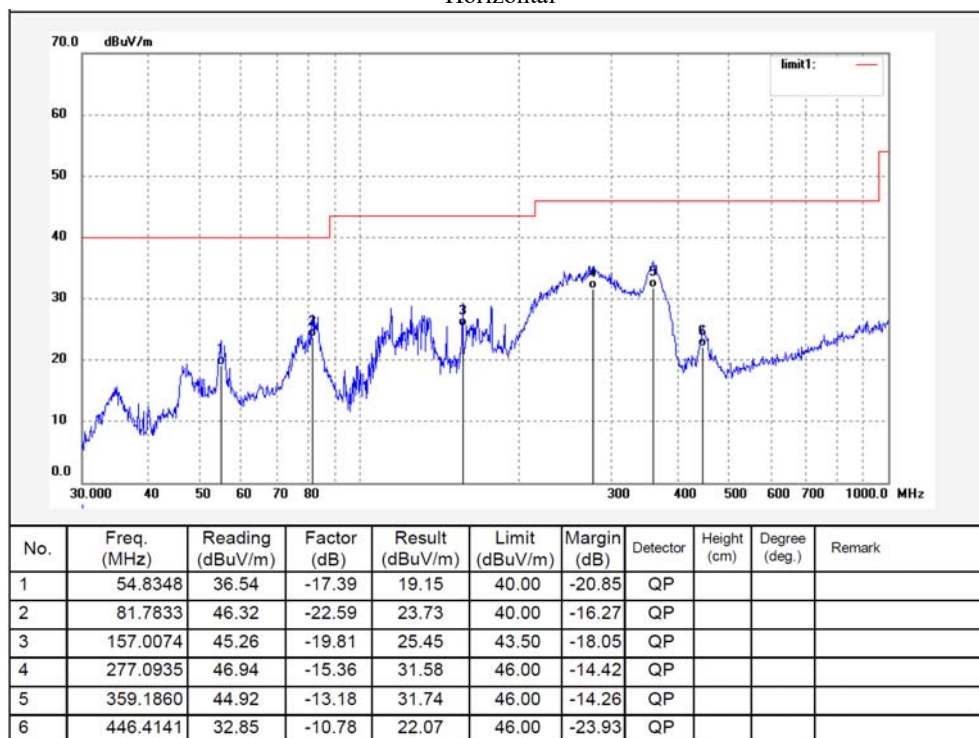
Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit at 3m=Limit at 300m-40*log(3(m)/300(m))

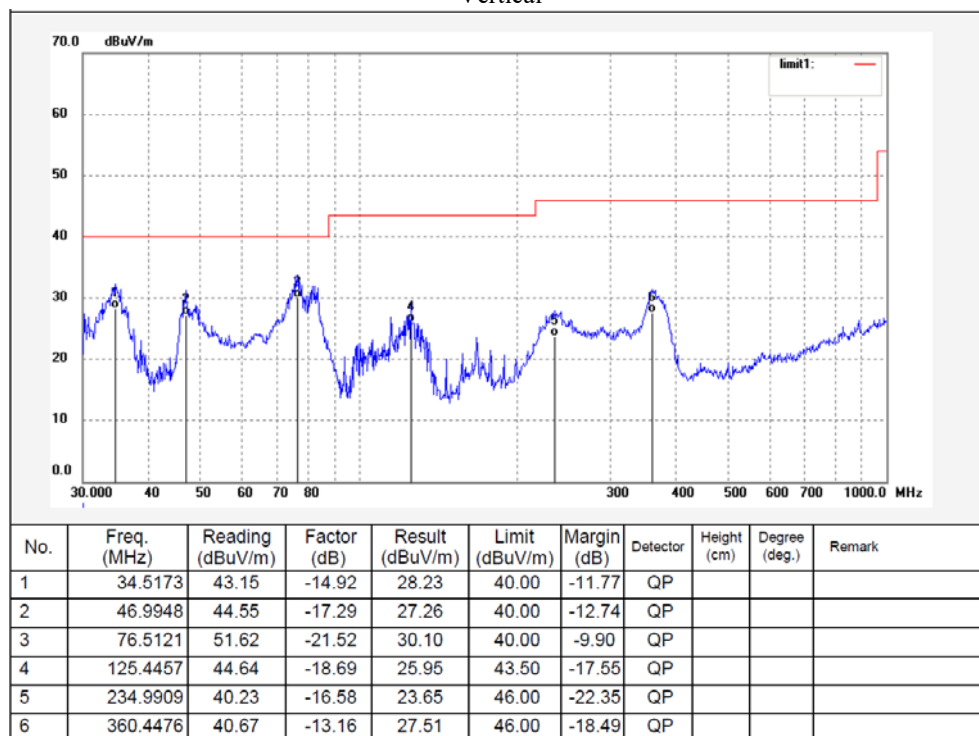
Limit at 3m=Limit at 30m-40*log(3(m)/30(m))

30 MHz ~ 1GHz

Horizontal



Vertical



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