

**Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC PART 15 SUBPART C TEST REPORT

Report Reference No.....: **GTS20190903009-1-3**

FCC ID.....: **2AVI6-UT-19**

Compiled by
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Date of issue.....: Dec. 18, 2019

Representative Laboratory Name.: **Shenzhen Global Test Service Co., Ltd.**

Address.....: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name.....: **JE DEVELOPMENT GROUPLIMITED**

Address: FLAT B07 FLO023, HOVER INDUSTRIAL BUILDING, NO 26-38 KWAI CHEONG ROAD. N.T. HONG KONG

Test specification

Standard: **FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013**

TRF Originator: Shenzhen Global Test Service Co.,Ltd.

Master TRF: Dated 2014-12

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Test item description: **WIRELESS CHARGER**

Trade Mark: N/A

Manufacturer: JE DEVELOPMENT GROUPLIMITED

Model/Type reference.....: UT-19

Listed Models: WG-C, UT-28, UT-29, UT-39, UT-27, UT-25

Modulation Type: ASK

Operation Frequency: From 110KHz~205KHz

Rating: DC 5V-2A/9V-1.67A/12V-1.2A

Result.....: **PASS**

TEST REPORT

| | |
|--|--------------------------------|
| Test Report No. : GTS20190903009-1-3 | Dec. 18, 2019 Date of issue |
|--|--------------------------------|

Equipment under Test : WIRELESS CHARGER

Model /Type : UT-19

Listed Models : WG-C, UT-28, UT-29, UT-39, UT-27, UT-25

Applicant : **JE DEVELOPMENT GROUPLIMITED**

Address : FLAT B07 FLO023, HOVER INDUSTRIAL BUILDING, NO 26-38
KWAI CHEONG ROAD. N.T. HONG KONG

Manufacturer : **JE DEVELOPMENT GROUPLIMITED**

Address : FLAT B07 FLO023, HOVER INDUSTRIAL BUILDING, NO 26-38
KWAI CHEONG ROAD. N.T. HONG KONG

Factory : **SHEN ZHEN JEWAY TECHNOLOGY CO, LTD**

Address : C BUILDING YANBIAN XUEZIWEI INDUXTRY SHAJING CITY
BAOAN DIS SHENZHEN, CHINA

| | |
|---------------------|-------------|
| Test Result: | PASS |
|---------------------|-------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules and Regulations Part 15 Subpart C \(Section 15.207\)](#): Conducted limits.

[FCC Rules and Regulations Part 15 Subpart C \(Section 15.209\)](#): Radiated emission limits; general requirements.

[ANSI C63.10: 2013](#): American National Standard for Testing Unlicensed Wireless Devices

2 SUMMARY

2.1 General Remarks

| | | |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Sep. 20, 2019 |
| | | |
| Testing commenced on | : | Dec. 17, 2019 |
| | | |
| Testing concluded on | : | Dec. 18, 2019 |

2.2 Product Description

| | |
|-------------------------|----------------------------|
| Product Name: | WIRELESS CHARGER |
| Model/Type reference: | UT-19 |
| Power supply: | DC 5V-2A/9V-1.67A/12V-1.2A |
| Wireless Charger | |
| Antenna Type | Coil Antenna |
| Antenna Gain | 0.0dBi |
| Operation frequency | 110KHz~205KHz |
| Modulation Type | ASK |

2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

| Test Conditions | Description | |
|-----------------|--|------------|
| TM1 | AC/DC Adapter (9V/1.67A) + EUT + Mobile Phone (Battery Status: <1%) | Record |
| TM2 | AC/DC Adapter (9V/1.67A) + EUT + Mobile Phone (Battery Status: <50%) | Pre-tested |
| TM3 | AC/DC Adapter (9V/1.67A) + EUT + Mobile Phone (Battery Status: 100%) | Pre-tested |
| TM4 | AC/DC Adapter (5V/2A) + EUT + Mobile Phone (Battery Status: <1%) | Pre-tested |
| TM5 | AC/DC Adapter (5V/2A) + EUT + Mobile Phone (Battery Status: <50%) | Pre-tested |
| TM6 | AC/DC Adapter (5V/2A) + EUT + Mobile Phone (Battery Status: 100%) | Pre-tested |
| TM7 | AC/DC Adapter (12V/1.2A) + EUT + Mobile Phone (Battery Status: <1%) | Pre-tested |
| TM8 | AC/DC Adapter (12V/1.2A) + EUT + Mobile Phone (Battery Status: <50%) | Pre-tested |
| TM9 | AC/DC Adapter (12V/1.2A) + EUT + Mobile Phone (Battery Status: 100%) | Pre-tested |

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

| Description | Manufacturer | Model | Technical Parameters | Certificate | Provided by |
|-------------|----------------------|-------|--|-------------|-------------|
| Adapter | CHENYANG ELECTRONICS | CD108 | Input: 100-240V~, 50/60Hz, 0.5A Output: 5V---2A / 9V---1.67A / 12V---1.2A | CE/FCC | laboratory |
| / | / | / | / | / | / |
| / | / | / | / | / | / |
| / | / | / | / | / | / |

2.5 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 165725

Shenzhen Global Test Service Co.,Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 4758.01

Shenzhen Global Test Service Co.,Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

CNAS-Lab Code: L8169

Shenzhen Global Test Service Co.,Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories. Date of Registration: Dec. 11, 2015. Valid time is until Dec. 10, 2024.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|-----------------------|--------------|
| Temperature: | 15-35 ° C |
| Humidity: | 30-60 % |
| Atmospheric pressure: | 950-1050mbar |

3.4 Summary of measurement results

| DESCRIPTION OF TEST | RESULT |
|--------------------------------|-----------|
| CONDUCTED EMISSIONS TEST | COMPLIANT |
| RADIATED EMISSION TEST | COMPLIANT |
| OCCUPIED BANDWIDTH MEASUREMENT | COMPLIANT |
| ANTENNA REQUIREMENT | COMPLIANT |

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

| Test | Range | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.10 dB | (1) |
| Radiated Emission | 1~18GHz | 4.32 dB | (1) |
| Radiated Emission | 18-40GHz | 5.54 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.12 dB | (1) |

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

3.6 Equipments Used during the Test

| Test Equipment | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Due Date |
|--------------------------------------|-----------------------------------|--------------------|--------------|------------------|----------------------|
| LISN | R&S | ENV216 | 3560.6550.08 | 2019/09/20 | 2020/09/19 |
| LISN | R&S | ESH2-Z5 | 893606/008 | 2019/09/20 | 2020/09/19 |
| EMI Test Receiver | R&S | ESPI 3 | 101841-cd | 2019/09/20 | 2020/09/19 |
| EMI Test Receiver | R&S | ESCI7 | 101102 | 2019/09/20 | 2020/09/19 |
| Spectrum Analyzer | Agilent | N9020A | MY48010425 | 2019/09/20 | 2020/09/19 |
| Spectrum Analyzer | R&S | FSV40 | 100019 | 2019/09/20 | 2020/09/19 |
| Controller | EM Electronics | Controller EM 1000 | N/A | 2019/09/21 | 2020/09/20 |
| Active Loop Antenna | Beijing Da Ze Technology Co.,Ltd. | ZN30900C | 15006 | 2019/10/12 | 2020/10/11 |
| By-log Antenna | SCHWARZBECK | VULB9163 | 000976 | 2019/05/26 | 2020/05/25 |
| Double Ridged Horn Antenna (1~18GHz) | SCHWARZBECK | BBHA 9120D | 01622 | 2019/09/23 | 2020/09/22 |
| Horn Antenna (18GHz~40GHz) | Schwarzbeck | BBHA9170 | 791 | 2019/09/20 | 2020/09/19 |
| Amplifier (30MHz~1GHz) | Schwarzbeck | BBV 9743 | #202 | 2019/09/20 | 2020/09/19 |
| Amplifier (1GHz~18GHz) | Taiwan Chengyi | EMC051845B | 980355 | 2019/09/20 | 2020/09/19 |

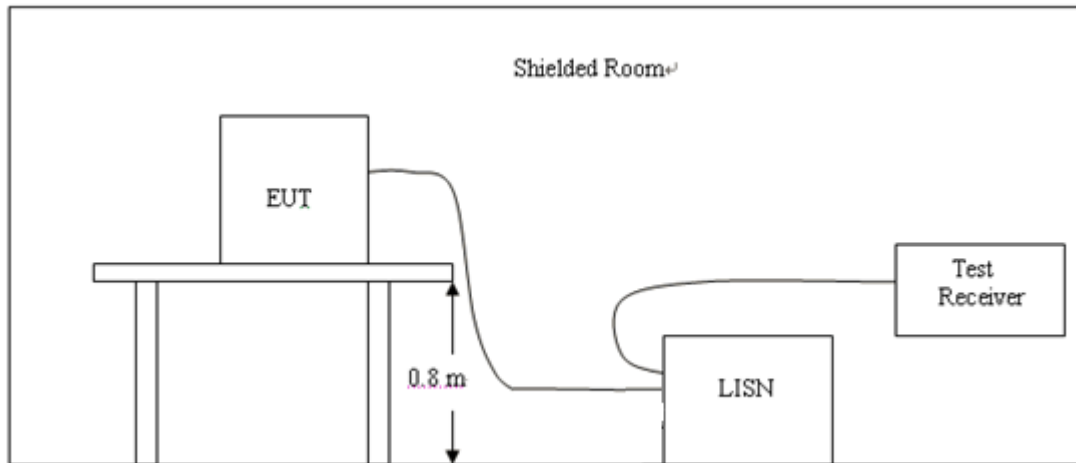
| | | | | | |
|------------------------------|--------------|-------------------------------|------------|------------|------------|
| Amplifier (26.5GHz~40GHz) | Schwarzbeck | BBV9179 | 9719-025 | 2019/09/20 | 2020/09/19 |
| Temperature/Humidity Meter | Gangxing | CTH-608 | 02 | 2019/09/20 | 2020/09/19 |
| High-Pass Filter | K&L | 9SH10- 2700/X12750- O/O | N/A | 2019/09/20 | 2020/09/19 |
| High-Pass Filter | K&L | 41H10- 1375/U12750- O/O | N/A | 2019/09/20 | 2020/09/19 |
| Data acquisition card | Agilent | U2531A | TW53323507 | 2019/09/20 | 2020/09/19 |
| Power Sensor | Agilent | U2021XA | MY5365004 | 2019/09/20 | 2020/09/19 |
| RF Cable | HUBER+SUHNER | RG214 | N/A | 2019/09/20 | 2020/09/19 |
| Conducted Emission | JS32-CE | V2.5 | N/A | N/A | N/A |
| Radiated Emission | JS32-RE | Ver 2.5.1.8 | N/A | N/A | N/A |

Note: The Cal.Interval was one year.

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

AC Power Conducted Emission Limit

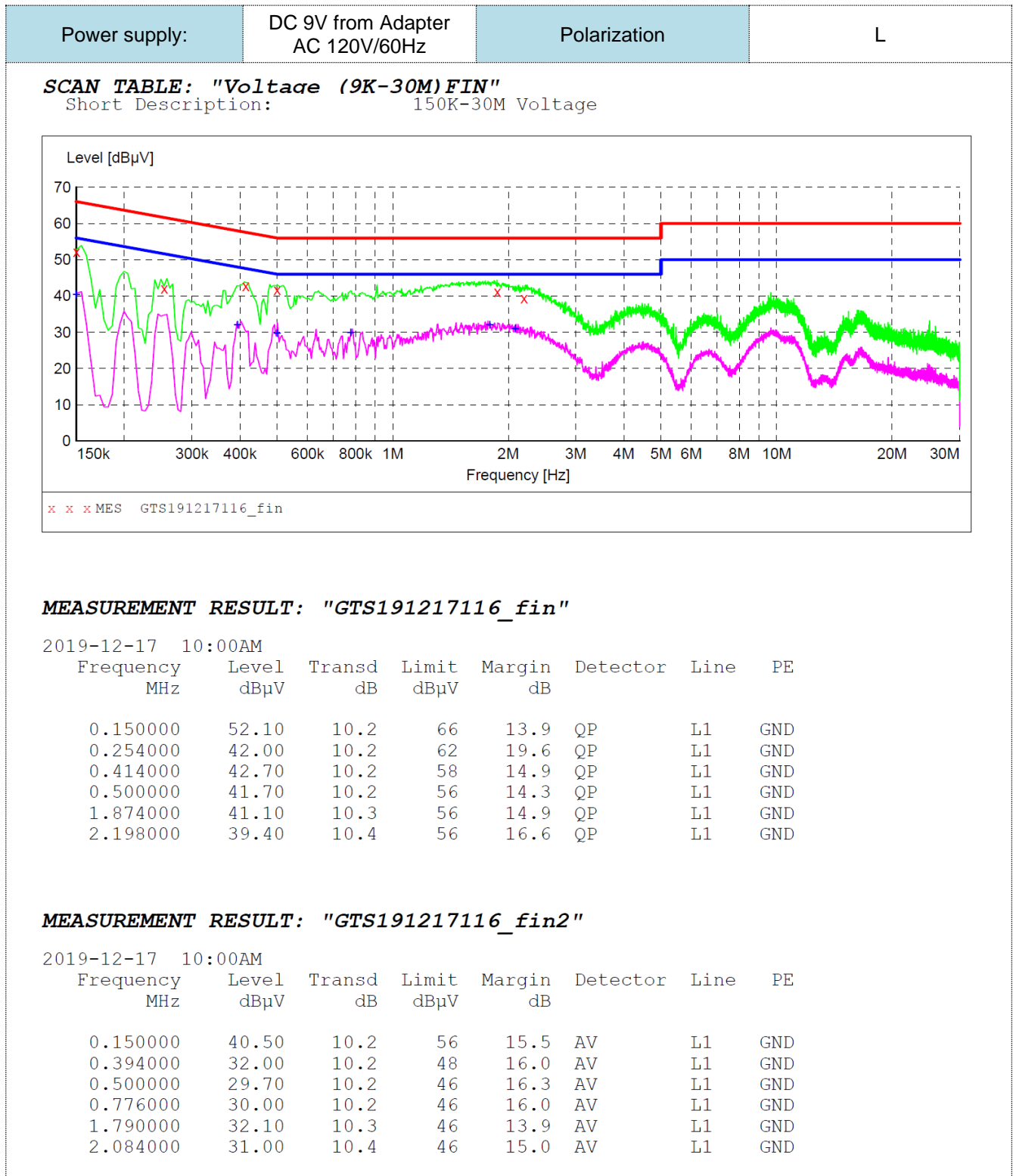
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

| Frequency range (MHz) | Limit (dBuV) | |
|-----------------------|--------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

TEST RESULTS

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



Power supply:

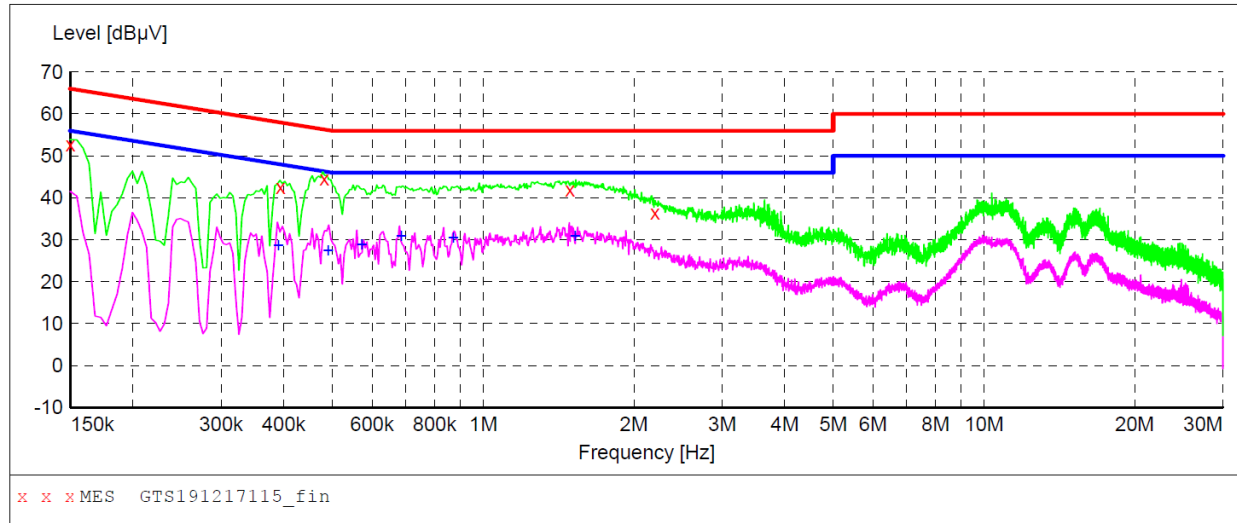
DC 9V from Adapter
AC 120V/60Hz

Polarization

N

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "GTS191217115_fin"**

2019-12-17 9:57AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.150000 | 52.60 | 10.2 | 66 | 13.4 | QP | N | GND |
| 0.394000 | 42.60 | 10.2 | 58 | 15.4 | QP | N | GND |
| 0.482000 | 44.50 | 10.2 | 56 | 11.8 | QP | N | GND |
| 1.490000 | 41.90 | 10.3 | 56 | 14.1 | QP | N | GND |
| 2.204000 | 36.50 | 10.4 | 56 | 19.5 | QP | N | GND |

MEASUREMENT RESULT: "GTS191217115_fin2"

2019-12-17 9:57AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.390000 | 28.70 | 10.2 | 48 | 19.4 | AV | N | GND |
| 0.490000 | 27.40 | 10.2 | 46 | 18.8 | AV | N | GND |
| 0.572000 | 28.90 | 10.2 | 46 | 17.1 | AV | N | GND |
| 0.686000 | 30.90 | 10.2 | 46 | 15.1 | AV | N | GND |
| 0.872000 | 30.50 | 10.2 | 46 | 15.5 | AV | N | GND |
| 1.526000 | 31.00 | 10.3 | 46 | 15.0 | AV | N | GND |

4.2 Radiated Emission

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

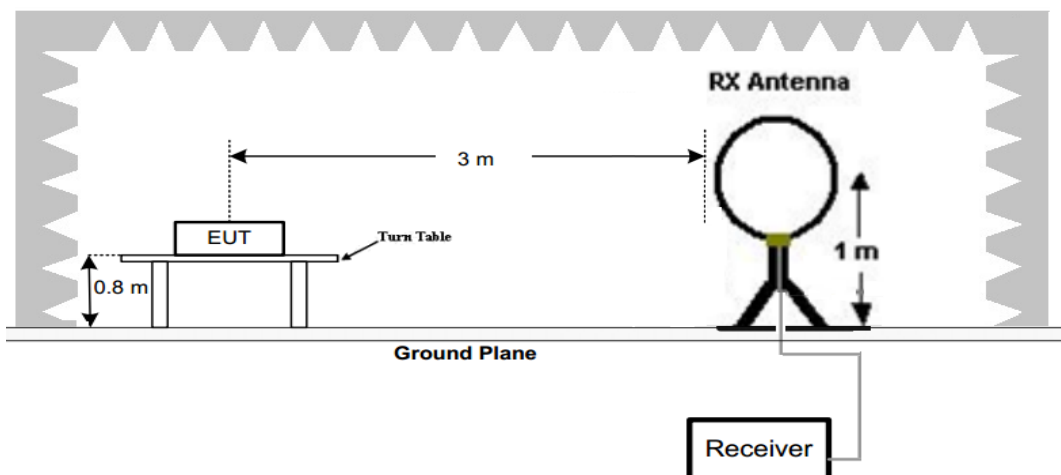
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

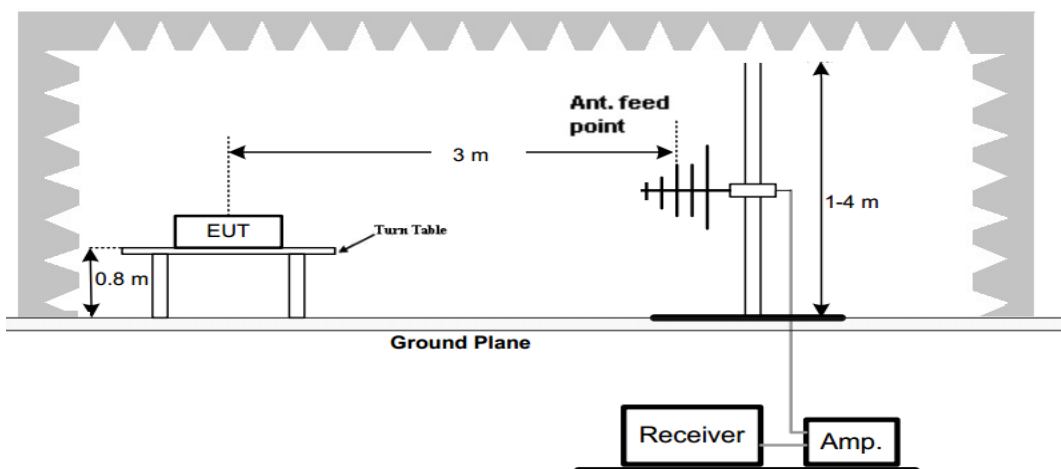
| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m) | Radiated (μV/m) |
|-----------------|-------------------|--|-----------------------|
| 0.009-0.49 | 3 | $20\log(2400/F(\text{KHz})) + 40\log(300/3)$ | $2400/F(\text{KHz})$ |
| 0.49-1.705 | 3 | $20\log(24000/F(\text{KHz})) + 40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30 | 3 | $20\log(30) + 40\log(30/3)$ | 30 |
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

TEST CONFIGURATION

1. Radiated Emission Test Set-Up, Frequency Below 30MHz



2. Radiated Emission Test Set-Up, Frequency below 1000MHz



Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turntable from 0° to 360° to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 1000MHz.
- The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type | Test Distance |
|----------------------|---------------------|---------------|
| 9KHz-30MHz | Active Loop Antenna | 3 |
| 30MHz-1GHz | Bilog Antenna | 3 |

- Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting | Detector |
|----------------------|---|----------|
| 9KHz-150KHz | RBW=200Hz/VBW=3KHz, Sweep time=Auto | QP |
| 150KHz-30MHz | RBW=9KHz/VBW=100KHz, Sweep time=Auto | QP |
| 30MHz-1GHz | RBW=120KHz/VBW=1000KHz, Sweep time=Auto | QP |

TEST RESULTS**For 9 KHz-30MHz****WORST-CASE RADIATED EMISSION BELOW 30 MHz**

| Frequency | Reading | Polar | Antenna Factor | Cable Loss | Emission Levels | Limits at 3m | Margin | Detector Mode |
|-----------|----------|-------|----------------|------------|-----------------|--------------|--------|---------------|
| (MHz) | (dBμV/m) | Loop | (dB/m) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 0.133(F) | 57.58 | Loop | 23.64 | 0.01 | 81.23 | 105.13 | 23.90 | PK |
| 0.133(F) | 48.91 | Loop | 23.64 | 0.01 | 72.56 | 85.13 | 12.57 | AV |
| 0.110 | 36.67 | Loop | 23.55 | 0.01 | 60.23 | 106.78 | 46.55 | PK |
| 0.110 | 27.88 | Loop | 23.55 | 0.01 | 51.44 | 86.78 | 35.34 | AV |
| 0.625 | 29.33 | Loop | 25.07 | -0.17 | 54.23 | 71.69 | 17.46 | QP |
| 1.275 | 18.49 | Loop | 27.12 | -0.25 | 45.36 | 65.49 | 20.13 | QP |
| 5.685 | 26.67 | Loop | 23.91 | -0.24 | 50.34 | 69.54 | 19.20 | QP |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |

Remark:

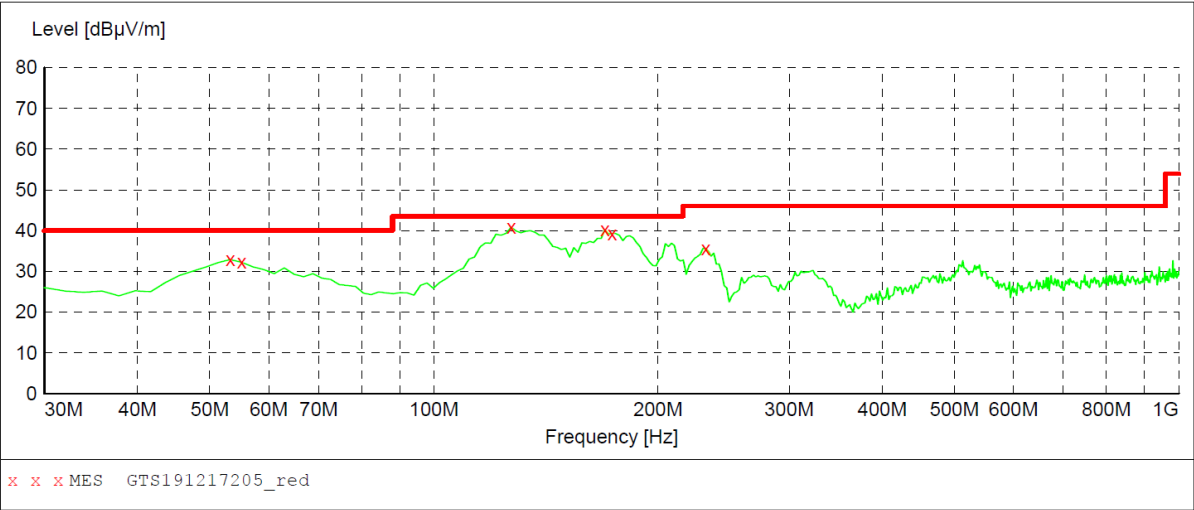
- Data of measurement within this frequency range shown "-- in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits and not recorded.
- The test limit distance is 3m limit.
- PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
- F means Fundamental Frequency.
- Emission level (dBuV/m) = Reading + Antenna Factor + Cable Loss.
- Margin value = Limit value- Emission level.

For 30MHz-1GHz

Horizontal

SWEEP TABLE: "test (30M-1G)"

| Short Description: | | Field Strength | | | |
|--------------------|-----------|----------------|----------|---------|------------|
| Start | Stop | Detector | Meas. | IF | Transducer |
| Frequency | Frequency | | Time | Bandw. | |
| 30.0 MHz | 1.0 GHz | MaxPeak | 300.0 ms | 100 kHz | VULB9163 |



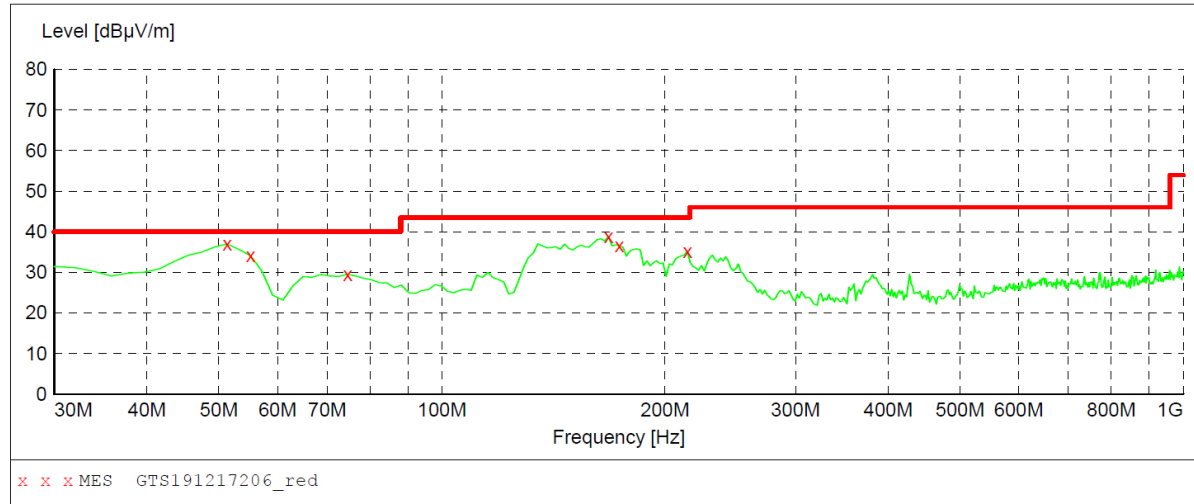
MEASUREMENT RESULT: "GTS191217205_red"

| 2019-12-17 22:57 | | | | | | | | |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
| 53.280000 | 32.90 | 8.2 | 40.0 | 7.1 | --- | 0.0 | 0.00 | HORIZONTAL |
| 55.220000 | 32.20 | 8.1 | 40.0 | 7.8 | --- | 0.0 | 0.00 | HORIZONTAL |
| 127.000000 | 40.80 | 15.3 | 43.5 | 2.7 | --- | 0.0 | 0.00 | HORIZONTAL |
| 169.680000 | 40.20 | 14.5 | 43.5 | 3.3 | --- | 0.0 | 0.00 | HORIZONTAL |
| 173.560000 | 39.30 | 14.5 | 43.5 | 4.2 | --- | 0.0 | 0.00 | HORIZONTAL |
| 231.760000 | 35.60 | 14.2 | 46.0 | 10.4 | --- | 0.0 | 0.00 | HORIZONTAL |

Vertical

SWEEP TABLE: "test (30M-1G)"

| | | | | | |
|--------------------|-----------|----------------|----------|---------|------------|
| Short Description: | | Field Strength | | | |
| Start | Stop | Detector | Meas. | IF | Transducer |
| Frequency | Frequency | | Time | Bandw. | |
| 30.0 MHz | 1.0 GHz | MaxPeak | 300.0 ms | 100 kHz | VULB9163 |

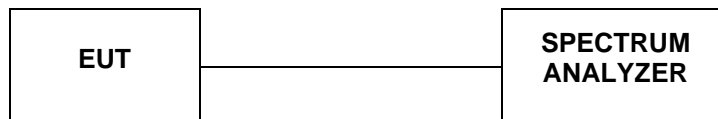
***MEASUREMENT RESULT: "GTS191217206_red"***

2019-12-17 22:58

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 51.340000 | 37.00 | 8.3 | 40.0 | 3.0 | --- | 0.0 | 0.00 | VERTICAL |
| 55.220000 | 34.10 | 8.1 | 40.0 | 5.9 | --- | 0.0 | 0.00 | VERTICAL |
| 74.620000 | 29.50 | 9.1 | 40.0 | 10.5 | --- | 0.0 | 0.00 | VERTICAL |
| 167.740000 | 38.90 | 14.5 | 43.5 | 4.6 | --- | 0.0 | 0.00 | VERTICAL |
| 173.560000 | 36.60 | 14.5 | 43.5 | 6.9 | --- | 0.0 | 0.00 | VERTICAL |
| 214.300000 | 35.10 | 14.4 | 43.5 | 8.4 | --- | 0.0 | 0.00 | VERTICAL |

4.3 Occupied Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

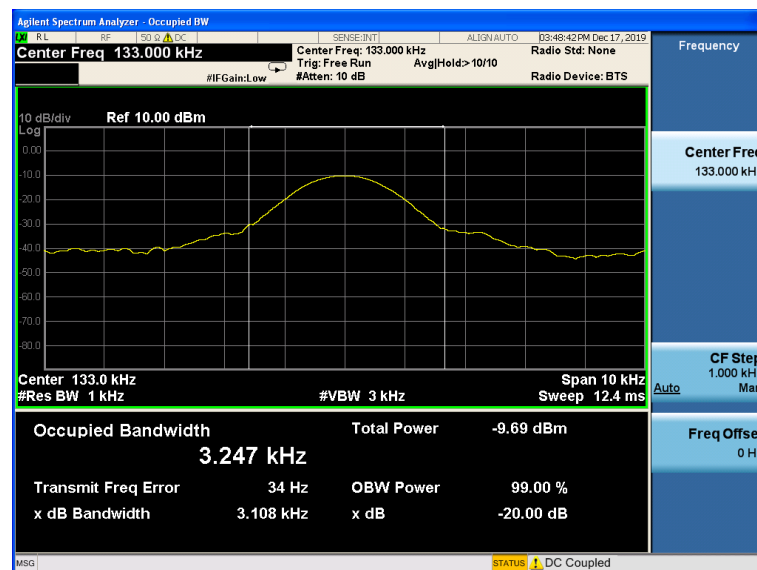
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

LIMIT

The 20dB bandwidth shall be less than 80% of the permitted frequency band.

TEST RESULTS

| Mode | Freq (KHz) | 20dB Bandwidth (KHz) | 99% OBW (KHz) | Conclusion |
|---------|------------|----------------------|---------------|------------|
| Tx Mode | 133 | 3.247 | 3.108 | PASS |



4.4 Antenna Requirement

Standard Applicable

Standard Applicable

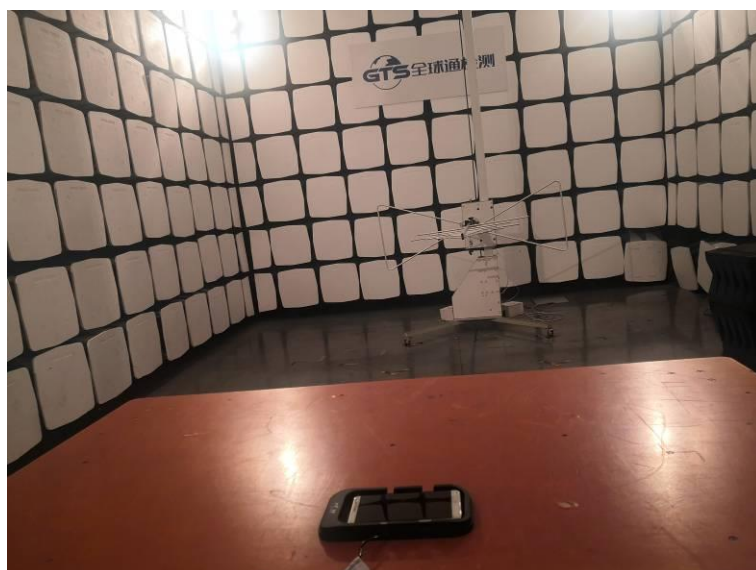
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Information

The antenna used in this product is a Coil Antenna, The directional gains of antenna used for transmitting is 0dBi.

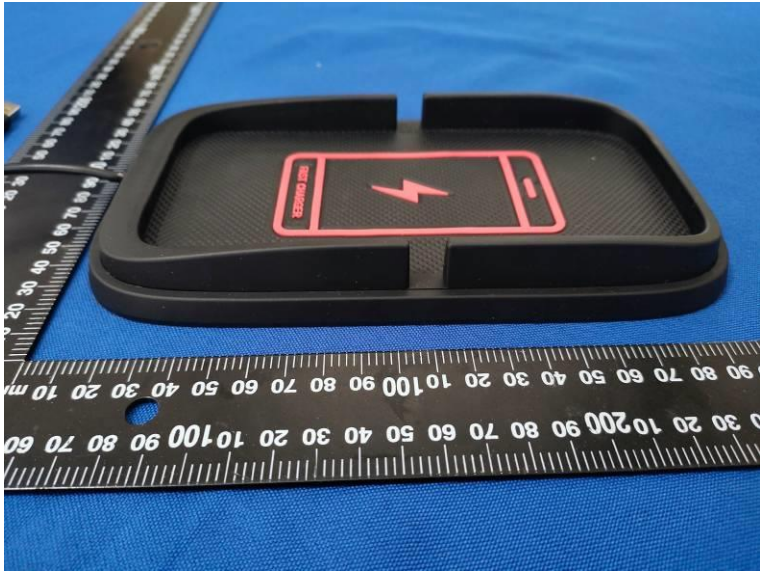
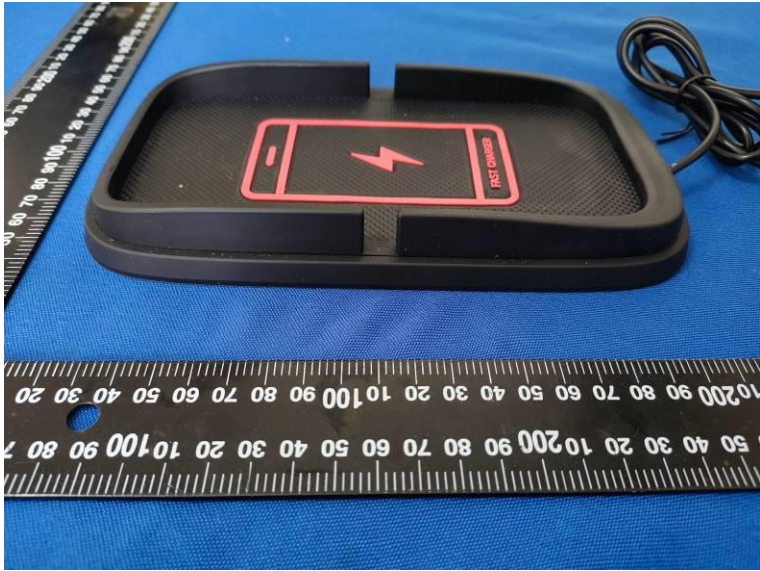
5 Test Setup Photos of the EUT



6 PHOTOS OF THE EUT

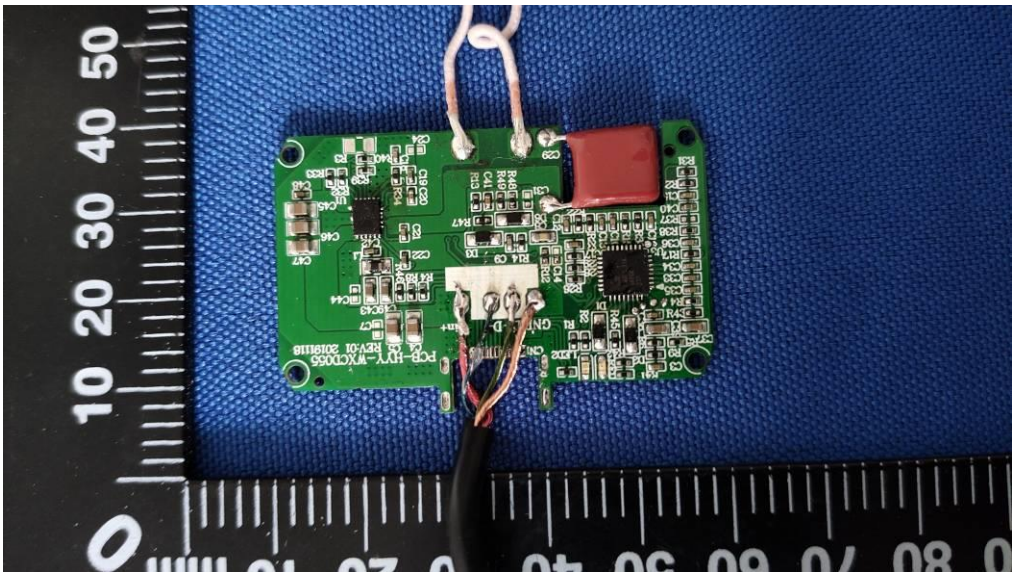
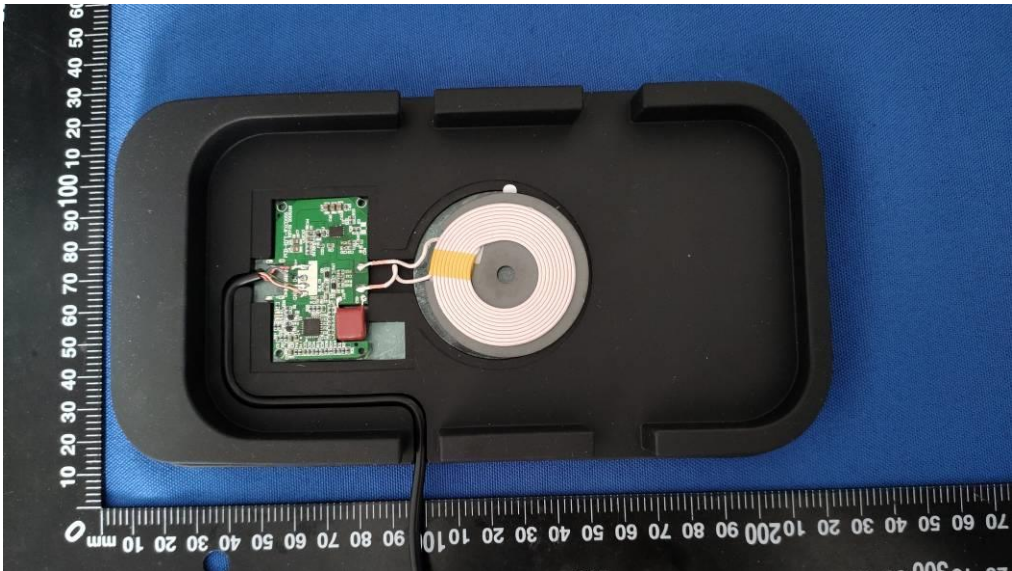
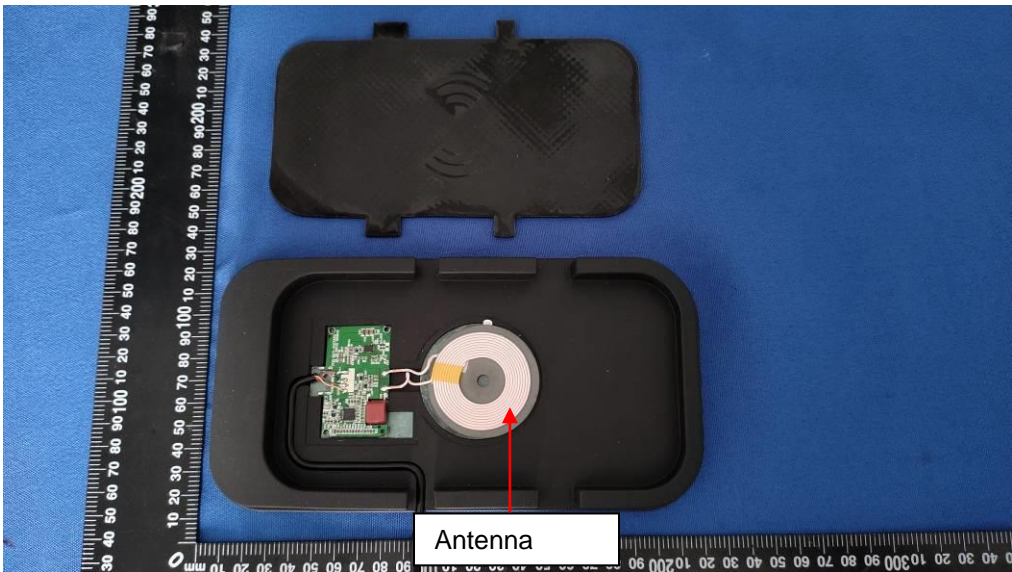
External photos

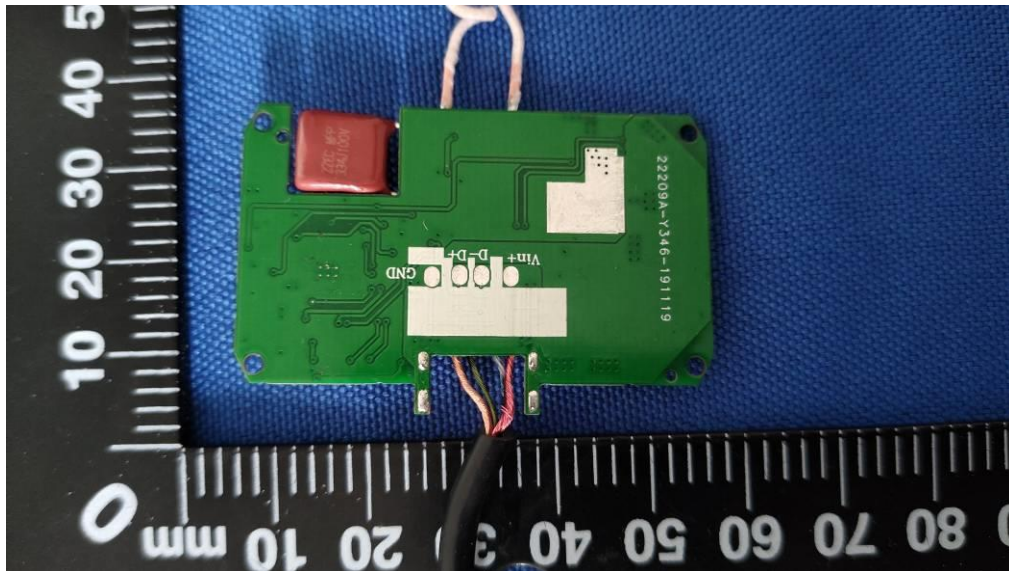






Internal Photos





***** End of Report *****