

Shenzhen CTL Testing Technology Co., Ltd. Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

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FCC PART 15 SUBPART C TEST REPORT

Report Reference No...... CTL1803133031-WF

Compiled by

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(File administrators)

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the tests

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Test Firm...... Shenzhen CTL Testing Technology Co., Ltd.

Address...... Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,

Nanshan District, Shenzhen, China 518055

Applicant's name...... Shenzhen Cheng Hui Da Electronics Co.,Ltd

Fuyong Town, Baoan District, Shenzhen, Guangdong, China

518103

Test specification:

Standard FCC Part 15C

Master TRF...... Dated 2011-01

Test item description: WIRELESS CHARGER

FCC ID...... 2APIQ-LH05

Trade Mark VIDA

Model/Type reference..... LH05

Transmit Frequency...... 171.7KHz

Antenna type Loop antenna

Date of Receipt...... Mar. 14, 2018

Date of Test Date Mar. 14, 2018–Mar. 30, 2018

Data of Issue Mar. 30, 2018

Result..... Pass

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TEST REPORT

| Toot Donort No | CTL1803133031-WF | Mar. 30, 2018 |
|-------------------|------------------|---------------|
| Test Report No. : | C1L1003133031-WF | Date of issue |

Equipment under Test : WIRELESS CHARGER

Type / Model(s) : LH05

Applicant : Shenzhen Cheng Hui Da Electronics Co.,Ltd

Address : 7th Building, Fuqiao 5th Industrial Area, Qiaotou Community, Fuyong

Town, Baoan District, Shenzhen, Guangdong, China 518103

Manufacturer : Shenzhen Cheng Hui Da Electronics Co.,Ltd

Address 7th Building, Fuqiao 5th Industrial Area, Qiaotou Community, Fuyong

Town, Baoan District, Shenzhen, Guangdong, China 518103

| Test Result according to the standards on page 4: | Positive |
|---|-----------------|
| Startaards on page 4. | THE CT Land 1/2 |

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 Part 15.207,15.209, 15.215(c)

ANSI C63.10-2013



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2. <u>SUMMARY</u>

2.1. General Remarks

| Date of receipt of test sample | : | Mar. 14, 2018 |
|--------------------------------|---|---------------|
| | | |
| | | |
| Testing commenced on | : | Mar. 14, 2018 |
| | | |
| | | |
| Testing concluded on | : | Mar. 30, 2018 |

2.2. Equipment Under Test

Power supply system utilised

| Power supply voltage | : | 0 | 120V / 60 Hz | 0 | 115V / 60Hz |
|----------------------|-----|---|-------------------------------|----|-------------|
| | 100 | 0 | 12 V DC | 0 | 24 V DC |
| | | • | Other (specified in blank bel | ow | |

DC 5V from USB

2.3. Short description of the Equipment under Test (EUT)

A WIRELESS CHARGER work frequency range 171.7 KHz. For more details, refer to the user's manual of the EUT. Serial number: Prototype

2.4. EUT operation mode

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting mode for testing.

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- O supplied by the manufacturer
- supplied by the lab

| • | Mobile Phone | Manufacturer : | APPLE |
|---|--------------|----------------|----------|
| | | Model No. : | iPhone 8 |
| • | PC | Manufacturer : | DELL |
| | | Model No. : | PP18L |

2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID**: 2APIQ-LH05 filing to comply with FCC Part 15, Subpart C Rules.

2.7. Modifications

No modifications were implemented to meet testing criteria.

2.8. Summary of Test Results

The EUT is WIRELESS CHARGER, The test summary of the EUT listed as below:

| | Test Standards | Test Result |
|-----------------------------------|----------------------------------|-------------|
| Electric Field Radiated Emissions | FCC Part 15 C (Section15.209) | PASS |
| 20dB Bandwidth/99% Bandwidth | FCC Part 15 C (Section15.215(c)) | PASS |
| Conducted Emissions | FCC Part 15 C (Section15.207) | PASS |

Remark: The measurement uncertainty is not included in the test result.



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3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

3.2. Test Facility

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

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 399832

Shenzhen CTL Testing Technology 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. Registration 399832, December 08, 2017.

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. 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 CTL Testing Technology 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 CTL laboratory is reported:

| Test | Range | Measurement Uncertainty | Notes |
|-----------------------|------------|----------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.10dB | (1) |
| Radiated Emission | Above 1GHz | 4.32dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.20dB | (1) |

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

3.5. Equipments Used during the Test

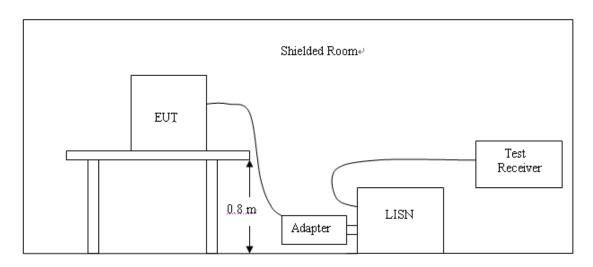
| | _ | | | Calibration | Calibratian |
|-------------------------------|-------------------------|-------------------------------|--------------|---------------------|----------------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Due Date |
| ULTRA-ROADBAND | Sunol Sciences | ID4 | A064740 | 2047/06/02 | 2019/06/01 |
| ANTENNA | Corp. | JB1 | A061713 | 2017/06/02 | 2018/06/01 |
| EMI Test Receiver | R&S | ESCI | 103710 | 2017/06/02 | 2018/06/01 |
| Spectrum Analyzer | Agilent | E4407B | MY41440676 | 2017/05/21 | 2018/05/20 |
| Controller | EM Electronics | Controller EM 1000 | N/A | 2017/05/21 | 2018/05/20 |
| Horn Antenna | Sunol Sciences Corp. | DRH-118 | A062013 | 2017/05/19 | 2018/05/18 |
| Active Loop Antenna | Daze | ZN30900A | N/A | 2017/05/19 | 2018/05/18 |
| LISN | R&S | ENV216 | 3560.6550.12 | 2017/06/02 | 2018/06/01 |
| LISN | R&S | ESH2-Z5 | 860014/010 | 2017/06/02 | 2018/06/01 |
| ISN | FCC | F-071115- 1057-1-09 | 11229 | 2017/05/19 | 2018/05/18 |
| Amplifier | Agilent | 8349B | 3008A02306 | 2017/05/19 | 2018/05/18 |
| Amplifier | Agilent | 8447D | 2944A10176 | 2017/05/19 | 2018/05/18 |
| Transient Limiter | SCHWARZCECK | VTSD 9561F | 9666 | 2017/06/02 | 2018/06/01 |
| Radio Communication Tester | R&S | CMU200 | 115419 | 2017/05/22 | 2018/05/21 |
| Temperature/Humidity Meter | Gangxing | CTH-608 | 02 | 2017/05/20 | 2018/05/19 |
| SIGNAL GENERATOR | Agilent | E4421B | US40051744 | 2017/05/20 | 2018/05/19 |
| Power Meter | Agilent | U2531A | TW53323507 | 2017/05/21 | 2018/05/20 |
| Power Sensor | Agilent | U2021XA | MY5365004 | 2017/05/21 | 2018/05/20 |
| Climate Chamber | ESPEC | EL-10KA | A20120523 | 2017/05/20 | 2018/05/19 |
| High-Pass Filter | K&L | 9SH10- 2700/X12750 -O/O | N/A | 2017/05/20 | 2018/05/19 |
| High-Pass Filter | K&L | 41H10- 1375/U12750 -O/O | CN/A | 2017/05/20 | 2018/05/19 |
| RF Cable | HUBER+SUHNER | RG214 | N/A | 2017/05/20 | 2018/05/19 |

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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 C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC5V power from the adapter, the adapter received AC120V/60Hz 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.
- 8 During the above scans, the emissions were maximized by cable manipulation.

 Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

AC Power Conducted Emission Limit

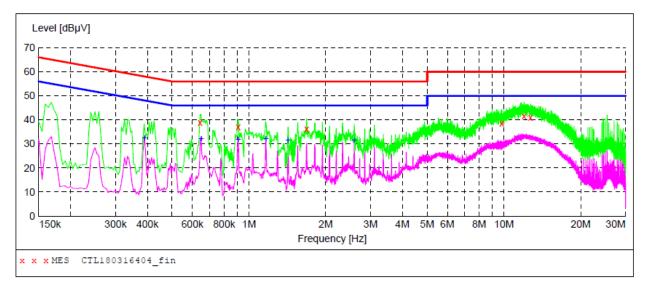
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

| F========= | Maximum RF Line Voltage (dBμV) | | | | | | |
|--------------------|--------------------------------|------|---------|--------|--|--|--|
| Frequency (MHz) | CLAS | S A | CLASS B | | | | |
| (111112) | Q.P. | Ave. | Q.P. | Ave. | | | |
| 0.15 - 0.50 | 79 | 66 | 66-56* | 56-46* | | | |
| 0.50 - 5.00 | 73 | 60 | 56 | 46 | | | |
| 5.00 - 30.0 | 73 | 60 | 60 | 50 | | | |

^{*} Decreasing linearly with the logarithm of the frequency

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL180316404 fin"

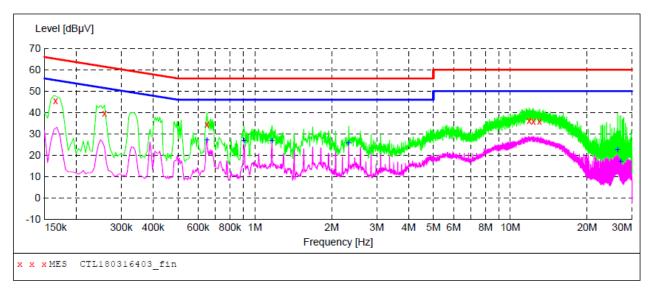
| 16/03/2018 1 | 4:45 | | | | | | |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.644000 | 38.90 | 10.2 | 56 | 17.1 | OP | L1 | GND |
| 0.908000 | 37.00 | 10.2 | 56 | 19.0 | QP | L1 | GND |
| 1.682000 | 36.10 | 10.3 | 56 | 19.9 | QP | L1 | GND |
| 9.794000 | 38.70 | 10.6 | 60 | 21.3 | QP | L1 | GND |
| 12.008000 | 41.70 | 10.6 | 60 | 18.3 | QP | L1 | GND |
| 12.692000 | 41.10 | 10.6 | 60 | 18.9 | QP | L1 | GND |

MEASUREMENT RESULT: "CTL180316404 fin2"

| 16/03/2018 1 Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|----------------------------------|-------------------------|----------------------|----------------|----------------------|----------------|----------------|------------|
| 0.390000 0.650000 | 32.60 32.20 | 10.2 10.2 | 48 46 | 15.5 13.8 | AV AV | L1 L1 | GND GND |
| 0.908000 1.166000 1.424000 | 32.00 32.30 31.70 | 10.2 10.3 10.3 | 46 46 46 | 14.0 13.7 14.3 | AV AV AV | L1 L1 L1 | GND GND |
| 2.588000 | 31.70 | 10.4 | 46 | 14.3 | AV | L1 | GND |

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL180316403 fin"

| 16/03/2018 14:42 | | | | | | | | | |
|------------------|------------------|---------------|--------------|---------------|--------------|----------|------|-----|--|
| | Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE | |
| | 0.166000 | 45.60 | 10.2 | 65 | 19.6 | QP | N | GND | |
| | 0.258000 | 39.70 | 10.2 | 62 | 21.8 | QP | N | GND | |
| | 0.650000 | 34.50 | 10.2 | 56 | 21.5 | QP | N | GND | |
| | 11.870000 | 36.00 | 10.6 | 60 | 24.0 | QP | N | GND | |
| | 12.308000 | 35.90 | 10.6 | 60 | 24.1 | QP | N | GND | |
| | 13.016000 | 35.80 | 10.6 | 60 | 24.2 | QP | N | GND | |
| | | | | | | | | | |

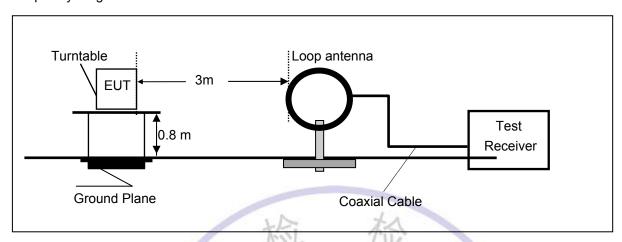
MEASUREMENT RESULT: "CTL180316403_fin2"

| 16/03/2018 1 Frequency MHz | 4:42 Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|----------------------------------|-----------------------|--------------|---------------|--------------|----------|------|-----|
| 0.650000 | 27.30 | 10.2 | 46 | 18.7 | AV | N | GND |
| 0.908000 | 26.70 | 10.2 | 46 | 19.3 | AV | N | GND |
| 1.166000 | 26.90 | 10.3 | 46 | 19.1 | AV | N | GND |
| 2.330000 | 25.70 | 10.4 | 46 | 20.3 | AV | N | GND |
| 26.282000 | 22.80 | 11.2 | 50 | 27.2 | AV | N | GND |
| 27.062000 | 17.10 | 11.2 | 50 | 32.9 | AV | N | GND |

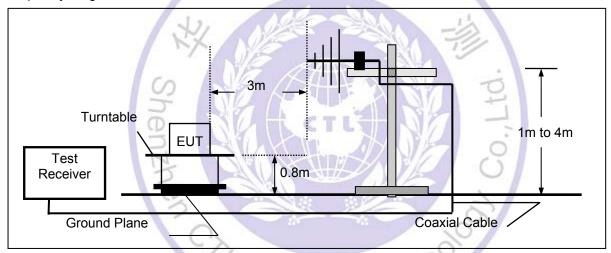
4.2. Radiated Emission

TEST CONFIGURATION

Radiated Emission Test Set-Up Frequency range 9KHz – 30MHz



Frequency range 30MHz - 1000MHz



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TEST PROCEDURE

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360°C to acquire the highest emissions from EUT
- 3 And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4 Repeat above procedures until all frequency measurements have been completed.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
|---------------------------|--|
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | 44 |

For example

| Frequency (MHz) | FS (dBµV/m) | RA AF (dBµV/m) (dB) | | CL (dB) | AG (dB) | Transd (dB) | |
|--------------------|----------------|---------------------|------|------------|------------|----------------|--|
| 300.00 | 40 | 58.1 | 12.2 | 1.6 | 31.90 | -18.1 | |

Transd=AF +CL-AG

RADIATION LIMIT

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:

9k~30MHz:

| Frequency Range (MHz) | E-field Strength Limit @ 30m (mV/m) | E-field Strength Limit @ 3m (dBµV/m) |
|-----------------------|--|---|
| 0.009-0.490 | 2400/F(kHz) | 129-94 |
| 0.490-1.705 | 24000/F(kHz) | 74-63 |
| 1.705-30 | 30 | 70 |

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation(dB) = $40\log_{10}$ (Measurement Distance/Specification Distance)

Note:

- (1) The tighter limit shall apply at the edge between two frequency bands.
- (2) dBuV/m = 20*log(uV/m)

30M~1GHz:

| Frequency (MHz) | Distance (Meters) | Radiated (dBµV/m) | Radiated (μV/m) |
|--------------------|----------------------|----------------------|--------------------|
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

Note:

- (1) The tighter limit shall apply at the edge between two frequency bands.
- (2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

TEST RESULTS

WORST-CASE RADIATED EMISSION BELOW 30 MHz

| Frequenc y | Reading | Polar | Antenna Factor | Cable Loss | Emission Levels | Limits at 3m | Detector Mode |
|---------------|----------|-------|-------------------|---------------|--------------------|--------------|------------------|
| (MHz) | (dBµV/m) | Loop | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | |
| 0.1717(F) | 48.36 | Loop | 23.64 | 0.01 | 72.01 | 102.91 | PK |
| 0.1717(F) | 43.91 | Loop | 23.64 | 0.01 | 67.56 | 82.91 | AV |
| 0.110 | 32.85 | Loop | 23.55 | 0.01 | 56.41 | 106.78 | PK |
| 0.110 | 27.23 | Loop | 23.55 | 0.01 | 50.79 | 86.78 | AV |
| 0.495 | 31.58 | Loop | 25.07 | -0.17 | 56.48 | 73.71 | QP |
| 1.145 | 33.12 | Loop | 27.12 | -0.25 | 59.99 | 66.43 | QP |
| 2.147 | 34.02 | Loop | 23.91 | -0.24 | 57.69 | 69.54 | QP |

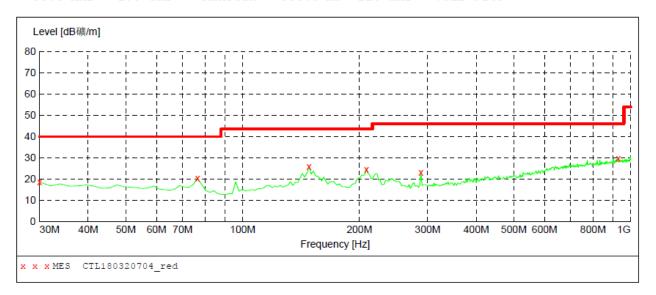
Remark: 1. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

- 2. The test limit distance is 3m limit.
- 3. PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
- 4. F means Fundamental Frequency.

Radiated Emission Test Data 30-1000MHz:

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 120 kHz VULB 9168



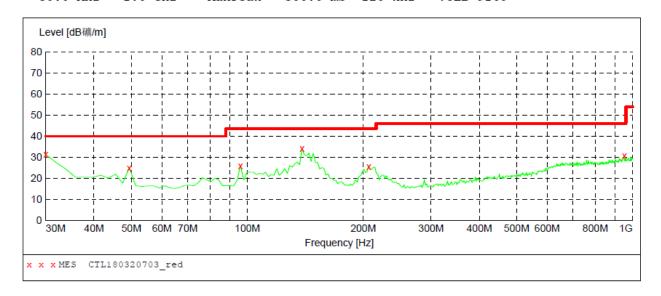
MEASUREMENT RESULT: "CTL180320704_red"

| 2018-3-20 9:4 | 17 | | | | | | | |
|------------------|----------------|--------------|----------------|--------------|------|--------------|----------------|--------------|
| Frequency MHz | Level dB礦/m | Transd dB | Limit dB礦/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
| 30.000000 | 18.50 | 13.4 | 40.0 | 21.5 | | 0.0 | 0.00 | HORIZONTAL |
| 76.560000 | 20.40 | 10.3 | 40.0 | 19.6 | | 0.0 | 0.00 | HORIZONTAL |
| 148.340000 | 25.70 | 15.0 | 43.5 | 17.8 | | 0.0 | 0.00 | HORIZONTAL |
| 208.480000 | 24.60 | 11.4 | 43.5 | 18.9 | | 0.0 | 0.00 | HORIZONTAL |
| 288.020000 | 23.20 | 14.2 | 46.0 | 22.8 | | 0.0 | 0.00 | HORIZONTAL |
| 928.220000 | 29.50 | 25.6 | 46.0 | 16.5 | | 0.0 | 0.00 | HORIZONTAL |

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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 120 kHz VULB 9168



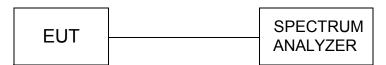
MEASUREMENT RESULT: "CTL180320703_red"

| 20 | 18-3-20 9:4 | 15 | | | | | | | |
|----|------------------|----------------|--------------|----------------|--------------|------|--------------|----------------|--------------|
| | Frequency MHz | Level dB礦/m | Transd dB | Limit dB礦/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
| | 30.000000 | 31.30 | 13.4 | 40.0 | 8.7 | | 0.0 | 0.00 | VERTICAL |
| | 49.400000 | 24.90 | 13.8 | 40.0 | 15.1 | | 0.0 | 0.00 | VERTICAL |
| | 95.960000 | 25.90 | 10.4 | 43.5 | 17.6 | | 0.0 | 0.00 | VERTICAL |
| | 138.640000 | 34.00 | 14.3 | 43.5 | 9.5 | | 0.0 | 0.00 | VERTICAL |
| | 206.540000 | 25.60 | 11.3 | 43.5 | 17.9 | | 0.0 | 0.00 | VERTICAL |
| | 951.500000 | 30.60 | 25.8 | 46.0 | 15.4 | | 0.0 | 0.00 | VERTICAL |



4.3. 20dB Bandwidth/99% Bandwidth

TEST CONFIGURATION



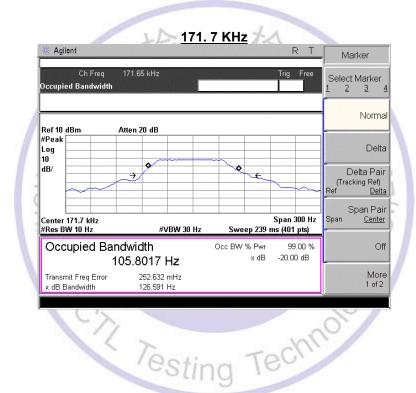
TEST PROCEDURE

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10Hz RBW and 30Hz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

LIMIT

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

TEST RESULTS



5. Test Setup Photos of the EUT



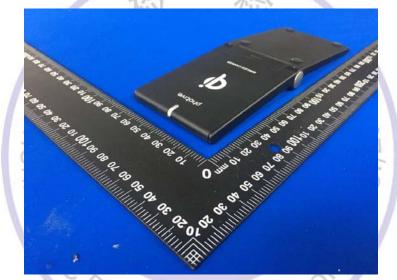


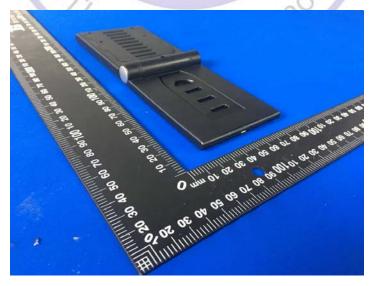


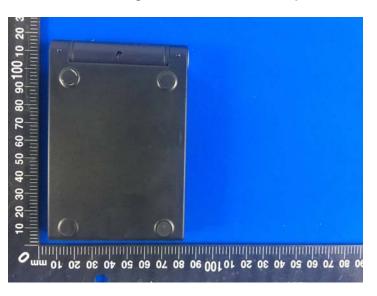
6. External and Internal Photos of the EUT

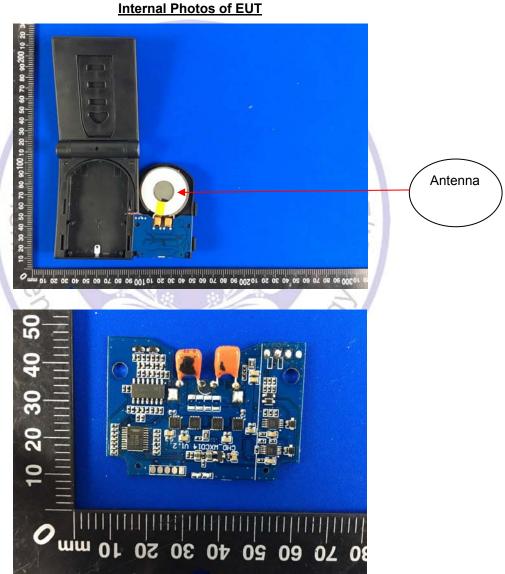
External Photos of EUT

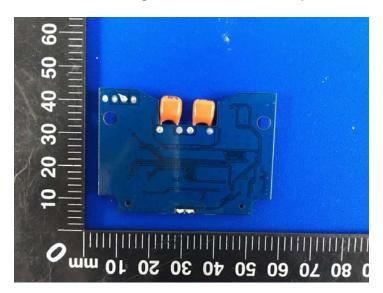












....End of Report.....

