

FCC RADIO TEST REPORT

FCC ID:2AI2O-OL605

Product: MULTIFUNCTIONAL CABINET LOCK

Trade Name: OMNI

Model Name: OL605

Serial Model: N/A

Report No.: UNIA20070204ER-02

Prepared for

Shenzhen Omni Intelligent Technology Co., Ltd.

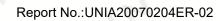
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Prepared by

Shenzhen United Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

| Applicant's name: | Shenzhen Omni Intelligent Technology Co., Ltd. |
|----------------------------------|---|
| | 5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road, Longgang District, Shenzhen, Guangdong, China |
| Manufacture's Name: | Shenzhen Omni Intelligent Technology Co., Ltd. |
| | 5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road, Longgang District, Shenzhen, Guangdong, China |
| Product description | |
| Product name: | MULTIFUNCTIONAL CABINET LOCK |
| Trade Mark: | OMNI |
| Model and/or type reference .: | OL605 |
| Standards | FCC Rules and Regulations Part 15 Subpart C Section 15.225 ANSI C63.10: 2013 |
| Co., Ltd., and the test results | has been tested by Shenzhen United Testing Technology show that the equipment under test (EUT) is in compliance nd it is applicable only to the tested sample identified in the |
| document may be altered or r | duced except in full, without the written approval of UNI, this evised by Shenzhen United Testing Technology Co., Ltd., noted in the revision of the document. |
| Date of Test | |
| Date (s) of performance of tests | |
| Date of Issue | |
| Test Result | : Pass |
| | |
| | Bob (im |
| Prepared by: | DOD (100 |
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| Reviewer: | Kahn. Yang |
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| Approved & Authorized Signe | Ar. |

Liuze/Manager





Table of Contents

Page

| 1 TEST SUMMARY | |
|---|----|
| 2 GENERAL INFORMATION | |
| 2.1 GENERAL DESCRIPTION OF EUT | 5 |
| 2.2 Carrier Frequency of Channels | 6 |
| 2.3 Operation of EUT during testing | 6 |
| 2.4DESCRIPTION OF TEST SETUP | |
| 2.5MEASUREMENT INSTRUMENTS LIST | |
| 3 CONDUCTED EMISSION TEST | 8 |
| 3.1 Conducted Power Line Emission Limit | 8 |
| 3.2 Test Setup | 8 |
| 3.3 Test Procedure | 8 |
| 3.4 Test Result | |
| 4 RADIATED EMISSION TEST | 11 |
| 4.1 Block Diagram of Test Setup | 11 |
| 4.2 Rules and specifications | |
| 4.3 Test Procedure | 13 |
| 4.4 Test Result | |
| 5 Occupied Bandwidth | 17 |
| 5.1 Test Setup | 17 |
| 5.2 Test Procedure | |
| 5.3 Measurement Equipment Used | |
| 5.4 Test Result | |
| 6 Frequency stability | |
| 6.1 Test Setup | 18 |
| 6.2 Test Procedure | |
| 6.3 Measurement Equipment Used | 18 |
| 6.4 Test Result | |
| 7 ANTENNA REQUIREMENT | 19 |
| 8PHOTOGRAPH OF TEST | |
| 8.1 Radiated Emission | 20 |
| 8.2 Conducted Emission | 21 |

Report No.:UNIA20070204ER-02



1 TEST SUMMARY

TEST PROCEDURES AND RESULTS

| DESCRIPTION OF TEST | STANGARD | RESULT |
|---------------------|----------------------------------|-----------|
| Antenna requirement | FCC Part 15.203 | COMPLIANT |
| Conduction Emission | FCC Part 15.207 | COMPLIANT |
| Radiation Emission | FCC Part 15.225/15.205/15.209 | COMPLIANT |
| Occupied Bandwidth | FCC Part 15.215 | COMPLIANT |
| Frequency stability | FCC Part 15.225 | COMPLIANT |

TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.

Address : 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang

Community, Xixiang Str, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

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

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 21947

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | MULTIFUNCTIONAL CABINET LOCK |
|---------------------|------------------------------|
| Trade Mark | OMNI |
| Model Name | OL605 |
| Serial No. | N/A |
| Model Difference | N/A |
| FCC ID | 2AI2O-OL605 |
| Antenna Type | PCB Antenna |
| Antenna Gain | 0dBi |
| Operation frequency | 13.56MHz |
| Number of Channels | 1CH |
| Modulation Type | FSK |
| Battery | 3.7V 1000mAh |

2.2 Carrier Frequency of Channels

| a i | Operation Frequency each of channel | |
|---------|-------------------------------------|--|
| Channel | Frequency | |
| 01 | 13.56MHz | |

Page 6 of 21

2.3 Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

2.4DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted testing:

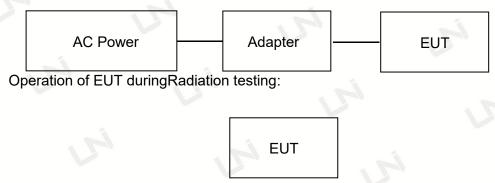


Table forauxiliary equipment:

| Equipment Description | | | Calibration Due Date |
|-----------------------|--------|--------------|----------------------|
| Adapter | HUAWEI | HW-059200CHQ | N/A |



2.5MEASUREMENT INSTRUMENTS LIST

| Item | Equipment | Manufacturer | Model No. | Serial No. | Calibrated until |
|------|-------------------------------------|----------------------------|--------------------|------------|------------------|
| | • | Conduction Em | issions Measuremen | t d | |
| 1 | Conducted Emission Test Software | EZ-EMC | Ver.CCS-3A1-CE | N/A | N/A |
| 2 | AMN | Schwarzbeck | NNLK8121 | 8121370 | 2020.10.15 |
| 3 | AMN | ETS | 3810/2 | 00020199 | 2020.10.15 |
| 4 | AAN | TESEQ | T8-Cat6 | 38888 | 2020.10.15 |
| 5 | Pulse Limiter | CYBRTEK | EM5010 | E115010056 | 2021.05.26 |
| 6 | EMI Test Receiver | Rohde&Schwarz | ESCI | 101210 | 2020.10.15 |
| 15 | | Radiated Emis | ssions Measurement | | |
| 1 | Radiated Emission Test Software | EZ-EMC | Ver.CCS-03A1 | N/A | N/A |
| 2 | Horn Antenna | Horn Antenna Sunol DRH-118 | | A101415 | 2020.10.18 |
| 3 | Broadband Hybrid Antenna | Sunol | JB1 | A090215 | 2020.11.15 |
| 4 | PREAMP | HP | 8449B | 3008A00160 | 2020.10.21 |
| 5 | PREAMP | HP | 8447D | 2944A07999 | 2021.05.26 |
| 6 | EMI Test Receiver | Rohde&Schwarz | ESR3 | 101891 | 2020.10.15 |
| 7 | MXA Signal Analyzer | Keysight | N9020A | MY51110104 | 2020.10.15 |
| 8 | Active Loop Antenna | Com-Power | AL-310R | 10160009 | 2021.05.28 |
| 9 | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1680 | 2021.05.28 |
| 10 | Horn Antenna | A-INFOMW | LB-180400-KF | J211060660 | 2020.10.23 |
| 11 | Loop Antenna | Beijing daze Technology | ZN30401 | 13015 | 2020.10.15 |
| 12 | EM Clamp | Schwarzbeck | MDS21 | 03350 | 2020.10.20 |

3 CONDUCTED EMISSION TEST

3.1 Conducted Power Line Emission Limit

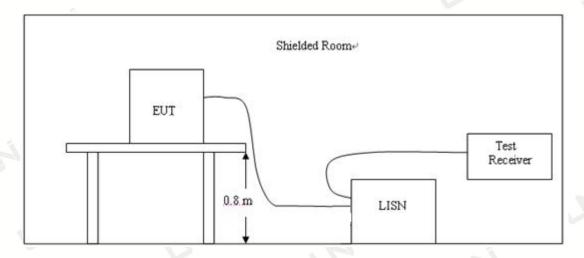
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Page 8 of 21

| Frequency | Maximum RF Line Voltage(dBμV) | | | | | |
|-----------|-------------------------------|------|---------|--------|--|--|
| | CLA | SS A | CLASS B | | | |
| (MHz) | 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
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user'smanual. A wooden table with a height of 0.8 meters is used and is placed onthe 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 AC120V/60Hzpower through a Line Impedance Stabilization Network (LISN) which supplied power source and wasgrounded 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 EUTusing a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has twomonitoring 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.

3.4 Test Result

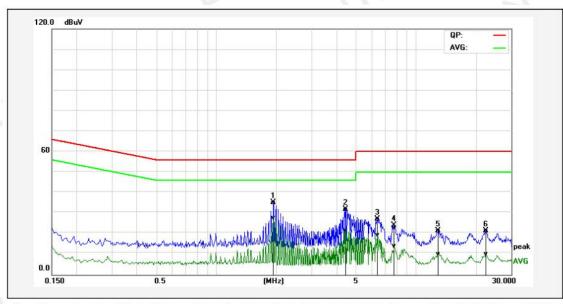
PSSS

Remark: EUT was tested at AC 120V and 240V, only the worst result of AC 120V was reported.



| Temperature: | 24°C | Relative Humidity: | 45% |
|---------------|-------------------|--------------------|---------|
| Test Date: | Jul. 10, 2020 | Pressure: | 1010hPa |
| Test Voltage: | AC 120V, 60Hz | Phase: | Line |
| Test Mode: | Transmitting mode | | |

Page 9 of 21

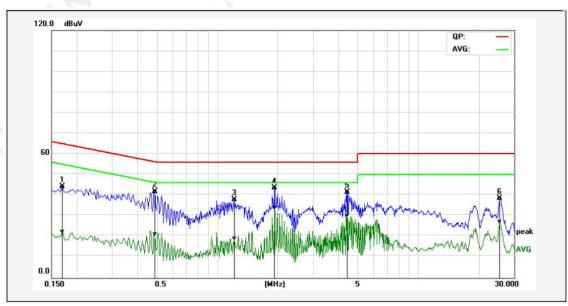


| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|-----|-----------|-------------------|-----------------|-------------------|---------------------|----------------|--------------------|------------------|---------------------|----------------|--------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1* | 1.9380 | 25.37 | 17.78 | 9.88 | 35.25 | 27.66 | 56.00 | 46.00 | -20.75 | -18.34 | Pass |
| 2P | 4.4340 | 22.07 | 11.81 | 9.94 | 32.01 | 21.75 | 56.00 | 46.00 | -23.99 | -24.25 | Pass |
| 3P | 6.4300 | 17.26 | 9.31 | 9.93 | 27.19 | 19.24 | 60.00 | 50.00 | -32.81 | -30.76 | Pass |
| 4P | 7.8100 | 13.05 | 3.95 | 9.90 | 22.95 | 13.85 | 60.00 | 50.00 | -37.05 | -36.15 | Pass |
| 5P | 12.9700 | 11.40 | 0.16 | 9.96 | 21.36 | 10.12 | 60.00 | 50.00 | -38.64 | -39.88 | Pass |
| 6P | 22.3740 | 11.00 | -0.50 | 10.41 | 21.41 | 9.91 | 60.00 | 50.00 | -38.59 | -40.09 | Pass |

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.



| Temperature: | 24°C | Relative Humidity: | 45% |
|---------------|-------------------|--|---------|
| Test Date: | Jul. 10, 2020 | Pressure: | 1010hPa |
| Test Voltage: | AC 120V, 60Hz | Phase: | Neutral |
| Test Mode: | Transmitting mode | The state of the s | , FI |



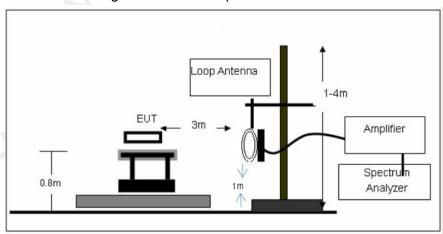
| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|-----|-----------|-------------------|-----------------|-------------------|------------------|----------------|--------------------|------------------|---------------------|----------------|--------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1P | 0.1700 | 34.51 | 12.63 | 9.68 | 44.19 | 22.31 | 64.96 | 54.96 | -20.77 | -32.65 | Pass |
| 2P | 0.4900 | 32.01 | 11.35 | 9.79 | 41.80 | 21.14 | 56.17 | 46.17 | -14.37 | -25.03 | Pass |
| 3P | 1.2220 | 28.00 | 9.12 | 9.84 | 37.84 | 18.96 | 56.00 | 46.00 | -18.16 | -27.04 | Pass |
| 4* | 1.9380 | 33.79 | 23.93 | 9.88 | 43.67 | 33.81 | 56.00 | 46.00 | -12.33 | -12.19 | Pass |
| 5P | 4.4340 | 31.47 | 20.32 | 9.94 | 41.41 | 30.26 | 56.00 | 46.00 | -14.59 | -15.74 | Pass |
| 6P | 25.5860 | 37.86 | 26.44 | 0.67 | 38.53 | 27.11 | 60.00 | 50.00 | -21.47 | -22.89 | Pass |

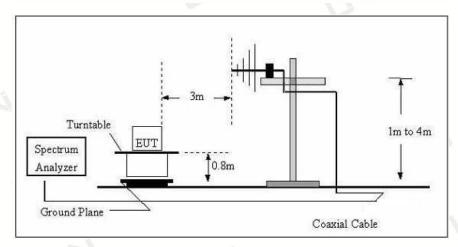
Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.



4 RADIATED EMISSION TEST

4.1 Block Diagram of Test Setup







4.2 Rules and specifications

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections.

| 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 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293. | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (\2\) |
| 13.36-13.41 | | |) NET - 365 |

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector

| 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 |

Limit calculation and transfer to 3m distance as showed in the following table:

| Frequency (MHz) | Limit (dBuV/m) | Distance (m) |
|--------------------|---------------------------------|-----------------|
| 0.009-0.490 | 20log(2400/F(KHz))+40log(300/3) | 3 |
| 0.490-1.705 | 20log(24000/F(KHz))+40log(30/3) | 3 |
| 1.705-30.0 | 69.5 | 3 |
| 30-88 | 40.0 | 3 |
| 88-216 | 43.5 | 3 |
| 216-960 | 46.0 | 3 |
| Above 960 | 54.0 | 3 |

FCC Part15 C Section 15.225

| Frequency (MHz) | Limit (uV/m @30m) | Limit (dBuV/m @3m) | Detector |
|--------------------|-------------------------|--------------------------|----------|
| 13.110-13.410 | 106 | 80.5 | QP |
| 13.410-13.553 | 334 | 90.5 | QP |
| 13.553-13.567 | 15848 | 124.0 | QP |
| 13.567-13.7110 | 224 | 90.5 | QP |
| 13.710-14.010 | 106 | 80.5 | QP |

Note: RF Voltage (dBuV) = 20 log RF Voltage (uV)

Limit (dBuV/m @3m) = 20log(Limit (uV/m @30m)) + 40



CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

| Tı | Transmitter Spurious Emissions 9KHz-30MHz | | | | |
|---------------------------|---|----------|----------|--|--|
| 9-150KHz 150-490KHz 490KH | | | | | |
| Resolution Bandwidth | 200Hz | 9KHz | 9KHz | | |
| Video Bandwidth | 2KHz | 100KHz | 100KHz | | |
| Detector | Peak | Peak | Peak | | |
| Trace Mode | Max Hold | Max Hold | Max Hold | | |
| Sweep Time | Auto | Auto | Auto | | |

4.3 Test Procedure

Measurement distance is 3m.

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade,

According to part 15.31(f)(2), per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

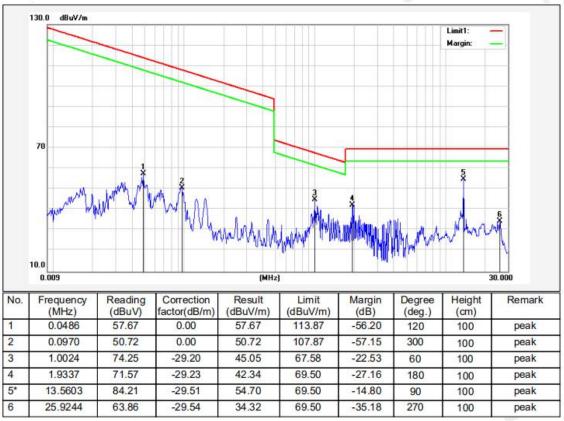
Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

For 9KHz-30MHz Test Results:





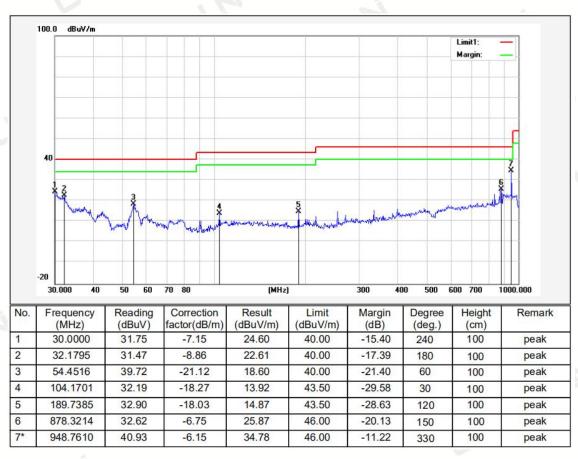
Field Strength of Fundamental

| • | | | | | | |
|-----------|---------|----------------------|--------|--------|--------|----------|
| Frequency | Reading | Correction Factor | Result | Limit | Margin | Detector |
| MHz | dBuV/m | dB/m | dBuV/m | dBuV/m | dB | 1 |
| 13.2100 | 55.85 | -29.51 | 26.34 | 80.50 | 54.16 | QP |
| 13.5100 | 59.97 | -29.51 | 30.46 | 90.50 | 60.04 | QP |
| 13.5600 | 84.21 | -29.51 | 54.70 | 124 | 69.30 | Peak |
| 13.6100 | 66.23 | -29.51 | 36.72 | 90.50 | 53.78 | QP |
| 13.8100 | 62.17 | -29.51 | 32.66 | 80.50 | 47.84 | QP |



For 30MHz-1GHz Test Results:

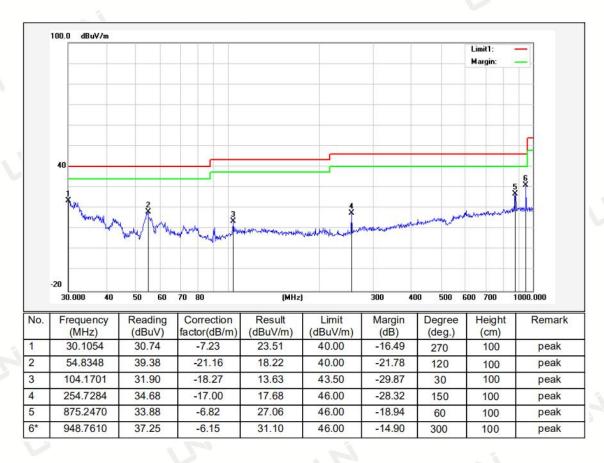
| Temperature: | 26°C | Relative Humidity: | 44% |
|---------------|-------------------|--------------------|------------|
| Test Date: | Jul. 10, 2020 | Pressure: | 1010hPa |
| Test Voltage: | DC 3.7V | Polarization: | Horizontal |
| Test Mode: | Transmitting mode | | |



Remark: Absolute Level= Reading Level+ Factor, Margin= Absolute Level – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier



| Temperature: | 26°C | Relative Humidity: | 44% |
|---------------|-------------------|--------------------|----------|
| Test Date: | Jul. 10, 2020 | Pressure: | 1010hPa |
| Test Voltage: | DC 3.7V | Polarization: | Vertical |
| Test Mode: | Transmitting mode | | , ri |



Remark: Absolute Level= Reading Level+ Factor, Margin= Absolute Level – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier

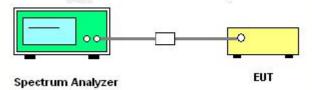
Remark:

- (1) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (2) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



5 Occupied Bandwidth

5.1 Test Setup



5.2 Test Procedure

According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.

Set to the maximum power setting and enable the EUT transmit continuously.

Use the following spectrum analyzer settings for 20dB Bandwidth measurement.

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel;

RBW=1% to 5% of the OBW; VBW ≥ 3RBW; Sweep = auto; Detector function = peak;

Trace = max hold.

Measure and record the results in the test report.

5.3 Measurement Equipment Used

Same asRadiated Emission Measurement

5.4 Test Result

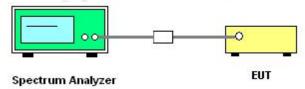
| Frequency (MHz) | 20dB Occupy Bandwidth (kHz) | Result |
|--------------------|-----------------------------|--------|
| 13.56 | 0.718 | PASS |





6 Frequency stability

6.1 Test Setup



6.2 Test Procedure

The equipment under test was connected to an external DC power supply and input rated voltage.

RF output was connected to a spectrum analyzer.

The EUT was placed inside the temperature chamber.

Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure

EUT 20℃ operating frequency as reference frequency.

Turn EUT off and set the chamber temperature to − 20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.

Repeat step measure with 10° C increased per stage until the highest temperature of +50°C reached.

6.3 Measurement Equipment Used

Same asRadiated Emission Measurement

6.4 Test Result

| Voltage | Temperature | Frequency | Deviation | Limit |
|---------|-------------|-----------|-----------|-----------|
| (Vdc) | (℃) | (MHz) | (%) | (%) |
| 3.7 | -20 | 13.560126 | 0.00093 | |
| 3.7 | -10 | 13.560214 | 0.00158 | |
| 3.7 | 0 | 13.560152 | 0.00112 | |
| 3.7 | 10 | 13.560217 | 0.00160 | |
| 3.7 | 20 | 13.560241 | 0.00178 | ./ 0.040/ |
| 3.7 | 30 | 13.560182 | 0.00134 | +/-0.01% |
| 3.7 | 40 | 13.560126 | 0.00093 | |
| 3.7 | 50 | 13.560142 | 0.00105 | |
| 3.145 | 20 | 13.560153 | 0.00113 | |
| 4.255 | 20 | 13.560124 | 0.00091 | 4 |



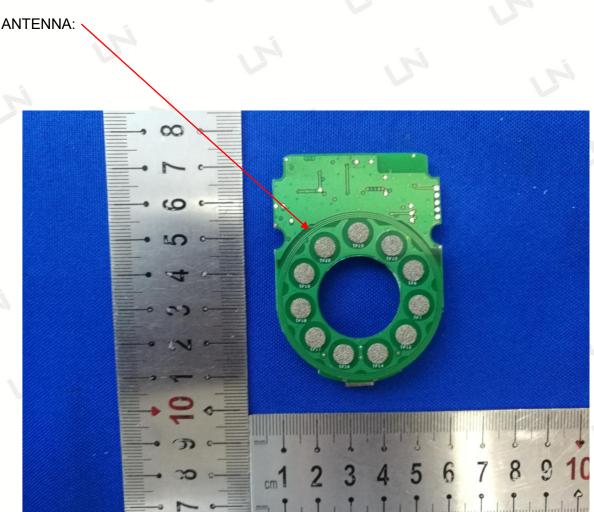
7 ANTENNA REQUIREMENT

Standard Applicable:

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

Antenna Connected Construction

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

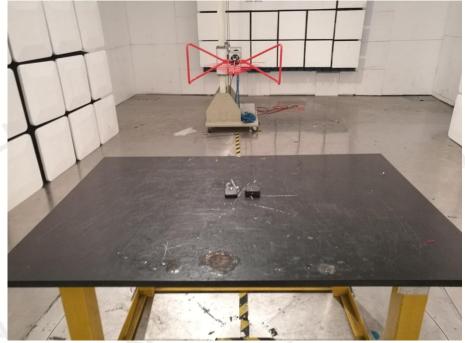




8PHOTOGRAPH OF TEST

8.1 Radiated Emission







End of Report