

Report No: CCISE190903201

FCC REPORT

| Applicant: | General Procurement, Inc |
|-------------------------|---|
| Address of Applicant: | 2601 Walnut Ave. Tustin, Ca 92780 |
| Equipment Under Test (E | EUT) |
| Product Name: | 10.1 inch tablet |
| Model No.: | Koral 10W3 |
| Trade mark: | Hyundai |
| FCC ID: | 2AIOHT1003W16 |
| Applicable standards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 |
| Date of sample receipt: | 10 Aug., 2019 |
| Date of Test: | 11 Aug., to 14 Oct., 2019 |
| Date of report issued: | 14 Oct., 2019 |
| Test Result: | PASS * |

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 14 Oct., 2019 | Original |
| | | |
| | | |
| | | |
| | | |

Tested by:

lang

Date:

14 Oct., 2019

Test Engineer

Reviewed by:

Winner thang Date:

Project Engineer

14 Oct., 2019

CCIS

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| | 8 | EUT | CONSTRUCTIONAL DETAILS | |



4 Test Summary

| Test Items | Section in CFR 47 | Result | | | |
|--|---------------------|--------|--|--|--|
| Antenna requirement | 15.203 & 15.247 (b) | Pass | | | |
| AC Power Line Conducted Emission | 15.207 | Pass | | | |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass | | | |
| 6dB Emission Bandwidth 99% Occupied Bandwidth | 15.247 (a)(2) | Pass | | | |
| Power Spectral Density | 15.247 (e) | Pass | | | |
| Band Edge | 15.247 (d) | Pass | | | |
| Spurious Emission | 15.205 & 15.209 | Pass | | | |
| Remark: Pass: The EUT complies with the essential requirements in the standard. N/A: Not Applicable. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer). | | | | | |

Test Method:

| ANSI C63.10-2013 |
|--|
| KDB 558074 D01 15.247 Meas Guidance v05r02 |

ANSI C63.4-2014



5 General Information

5.1 Client Information

| Applicant: | General Procurement, Inc |
|------------------------|--|
| Address: | 2601 Walnut Ave. Tustin, Ca 92780 |
| Manufacturer/ Factory: | Shen Zhen Cheng Fong Digital-Tech Limited |
| Address: | Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China |

5.2 General Description of E.U.T.

| Product Name: | 10.1 inch tablet |
|------------------------|--|
| Model No.: | Koral 10W3 |
| Operation Frequency: | 2402-2480 MHz |
| Channel numbers: | 40 |
| Channel separation: | 2 MHz |
| Modulation technology: | GFSK |
| Data speed : | 1Mbps |
| Antenna Type: | Internal Antenna |
| Antenna gain: | 0.94 dBi |
| Power supply: | Rechargeable Li-ion Battery DC3.7V 5000mAh |
| AC adapter: | Model: K-T100502000U Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2A |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects. |

| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |
| | | | | | | | |

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.



5.3 Test environment and test mode

| Operating Environment: | |
|-------------------------------|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test mode: | |
| Transmitting mode | Keep the EUT in continuous transmitting with modulation |

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

| Parameters | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz) | ±1.60 dB (k=2) |
| Radiated Emission (9kHz ~ 30MHz) | ±3.12 dB (k=2) |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2) |
| Radiated Emission (1GHz ~ 18GHz) | ±5.38 dB (k=2) |
| Radiated Emission (18GHz ~ 40GHz) | ±3.36 dB (k=2) |

5.6 Additions to, deviations, or exclusions from the method

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.9 Test Instruments list

| Radiated Emission: | | | | | | | |
|--------------------|-----------------|---------------|------------------|-------------------------|-----------------------------|--|--|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | | |
| 3m SAC | SAEMC | 9m*6m*6m | 966 | 07-22-2017 | 07-21-2020 | | |
| Loop Antenna | SCHWARZBECK | FMZB1519B | 00044 | 03-18-2019 | 03-17-2020 | | |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-18-2019 | 03-17-2020 | | |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-18-2019 | 03-17-2020 | | |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 1805 | 06-22-2017 | 06-21-2020 | | |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170582 | 11-21-2018 | 11-20-2019 | | |
| EMI Test Software | AUDIX | E3 | ١ | /ersion: 6.110919 | b | | |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-18-2019 | 03-17-2020 | | |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-18-2019 | 03-17-2020 | | |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-18-2019 | 03-17-2020 | | |
| Spectrum analyzer | Rohde & Schwarz | FSP40 | 100363 | 11-21-2018 | 11-20-2019 | | |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-18-2019 | 03-17-2020 | | |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-18-2019 | 03-17-2020 | | |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-18-2019 | 03-17-2020 | | |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-18-2019 | 03-17-2020 | | |
| RF Switch Unit | MWRFTEST | MW200 | N/A | N/A | N/A | | |
| Test Software | MWRFTEST | MTS8200 | Version: 2.0.0.0 | | | | |

| Conducted Emission: | | | | | |
|---------------------|-----------------|------------|--------------------|-------------------------|-----------------------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101189 | 03-18-2019 | 03-17-2020 |
| Pulse Limiter | SCHWARZBECK | OSRAM 2306 | 9731 | 03-18-2019 | 03-17-2020 |
| LISN | CHASE | MN2050D | 1447 | 03-18-2019 | 03-17-2020 |
| LISN | Rohde & Schwarz | ESH3-Z5 | 8438621/010 | 07-21-2019 | 07-20-2020 |
| Cable | HP | 10503A | N/A | 03-18-2019 | 03-17-2020 |
| EMI Test Software | AUDIX | E3 | Version: 6.110919b | | |



6 Test results and Measurement Data

6.1 Antenna requirement:

| Standard requirement: | FCC Part 15 C Section 15.203 /247(b) |
|--|--|
| responsible party shall be u antenna that uses a unique so that a broken antenna ca electrical connector is prohil 15.247(b) (4) requirement: (4) The conducted output po | ower limit specified in paragraph (b) of this section is based on the use of |
| section, if transmitting anter power from the intentional ra | ains that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), tion, as appropriate, by the amount in dB that the directional gain of the |
| E.U.T Antenna: | |
| The BLE antenna is an Interr antenna is 0.94 dBi. | hal antenna which cannot replace by end-user, the best-case gain of the |
| SQ101 | La22B-1B2-A |
| | |
| | |
| | BT&WIFI-ANT |
| | |



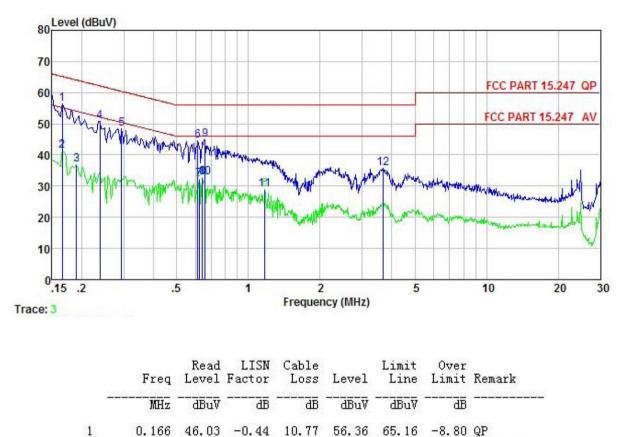
6.2 Conducted Emission

| Test Requirement: | FCC Part 15 C Section 15.207 | | | | |
|-----------------------|--|------------|-----------|--|--|
| Test Frequency Range: | 150 kHz to 30 MHz | | | | |
| Class / Severity: | Class B | | | | |
| Receiver setup: | RBW=9kHz, VBW=30kHz | | | | |
| Limit: | Frequency range (MHz) | Limit (| (dBuV) | | |
| | | Quasi-peak | Average | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | |
| | 0.5-5 5-30 | <u> </u> | 46 50 | | |
| | | | 50 | | |
| Test procedure | * Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power through ine impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4-2014 on conducted measurer | | | | |
| Test setup: | LISN 40cm | | AC power | | |
| Test Instruments: | Refer to section 5.9 for det | tails | | | |
| Test mode: | Refer to section 5.3 for det | tails | | | |
| Test results: | Passed | | | | |

CCIS

Measurement Data:

| Product name: | 10.1 inch tablet | Product model: | Koral 10W3 |
|-----------------|------------------|----------------|-----------------------|
| Test by: | YT | Test mode: | BLE Tx mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase: | Line |
| Test voltage: | AC 120 V/60 Hz | Environment: | Temp: 22.5℃ Huni: 55% |



Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

10.77

10.76

10.75

10.74

10.77

10.77

10.77

10.77

10.77

10.89

10.90

41.33

37.01

50.73

48.38

44.51

32.08

32.71

44.95

32.77

28.96

35.80

55.16 -13.83 Average

54.02 -17.01 Average

46.00 -13.92 Average

46.00 -13.29 Average

46.00 -13.23 Average

46.00 -17.04 Average

62.17 -11.44 QP

60.41 -12.03 QP

56.00 -11.49 QP

56.00 -11.05 QP

56.00 -20.20 QP

3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

0.166

0.190

0.238

0.294

0.614

0.621

0.641

0.658

0.658

1.172

3.681

31.00

26.67

40.38

38.03

34.12

21.69

22.32

34.56

22.38

18.46

25.36

-0.44

-0.42

-0.40

-0.39

-0.38

-0.38

-0.38

-0.38

-0.38

-0.39

-0.46

234

5

6

7

8

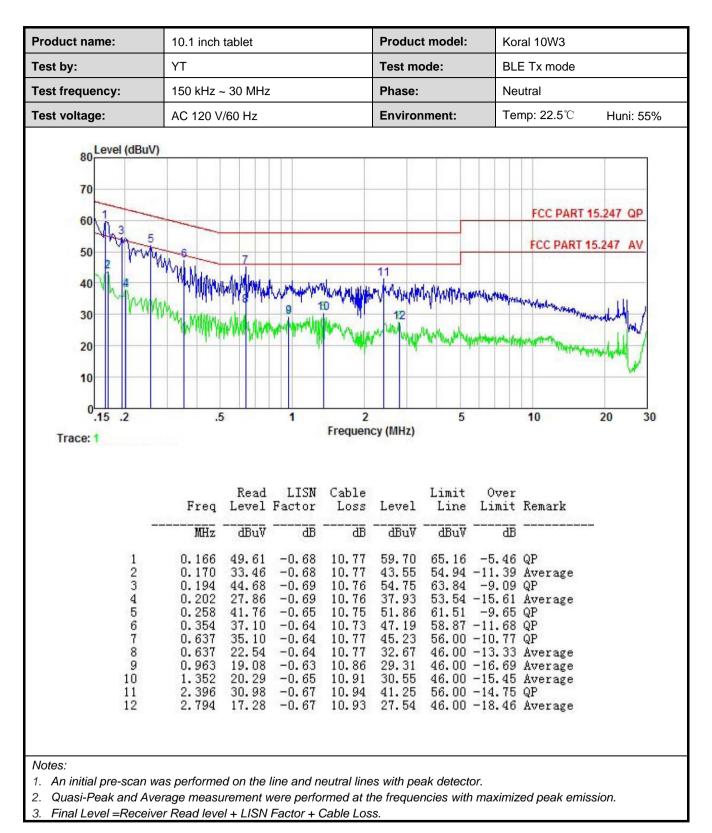
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10

11

12





Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



6.3 Conducted Output Power

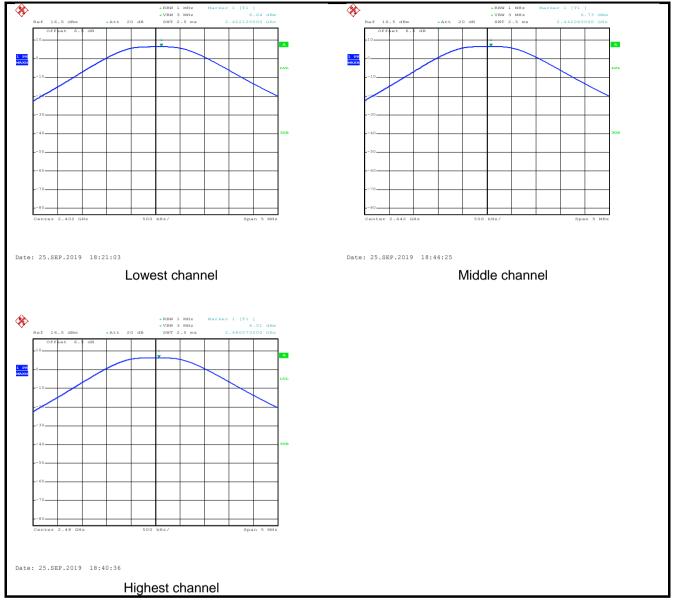
| Test Requirement: | FCC Part 15 C Section 15.247 (b)(3) | | | | |
|-------------------|---|--|--|--|--|
| Limit: | 30dBm | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Passed | | | | |

Measurement Data:

| Test CH | Maximum Conducted Output Power (dBm) | Limit(dBm) | Result |
|---------|---|------------|--------|
| Lowest | 6.64 | | |
| Middle | 6.73 | 30.00 | Pass |
| Highest | 6.51 | | |



Test plot as follows:





6.4 Occupy Bandwidth

| Test Requirement: | FCC Part 15 C Section 15.247 (a)(2) | | | | |
|-------------------|---|--|--|--|--|
| Limit: | >500kHz | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Passed | | | | |

Measurement Data:

| Test CH | 6dB Emission Bandwidth (MHz) | Limit(kHz) | Result | |
|---------|------------------------------|------------|--------|--|
| Lowest | 0.756 | | Pass | |
| Middle | 0.756 | >500 | | |
| Highest | 0.756 | | | |
| Test CH | 99% Occupy Bandwidth (MHz) | Limit(kHz) | Result | |
| Lowest | 1.032 | | | |
| Middle | 1.038 | N/A | N/A | |
| Highest | 1.038 | | | |

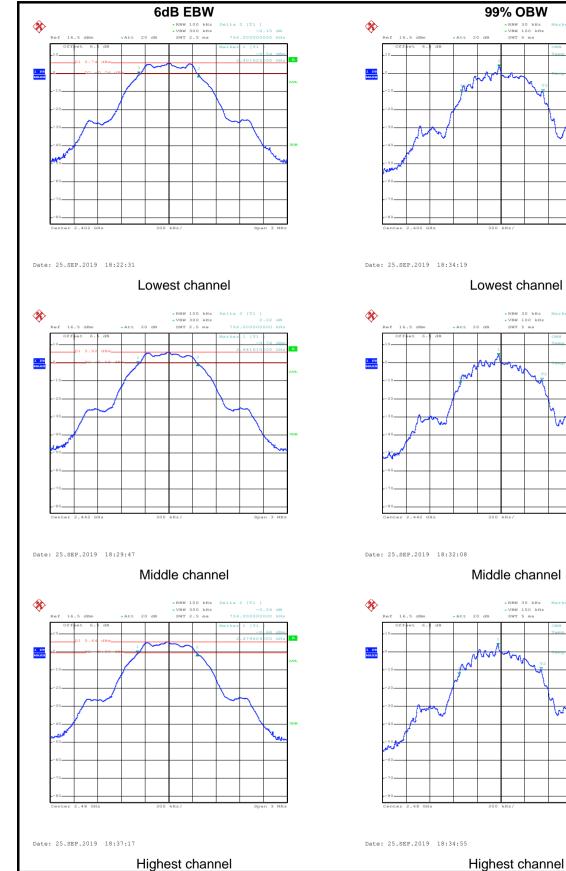
RBW 30
 VBW 100

RBW 30 kHz
 VBW 100 kHz
 SWT 5 ms

*RBW 30 kHz *VBW 100 kHz SWT 5 ms

ta

Test plot as follows:



Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Project No.: CCISE1909032



6.5 Power Spectral Density

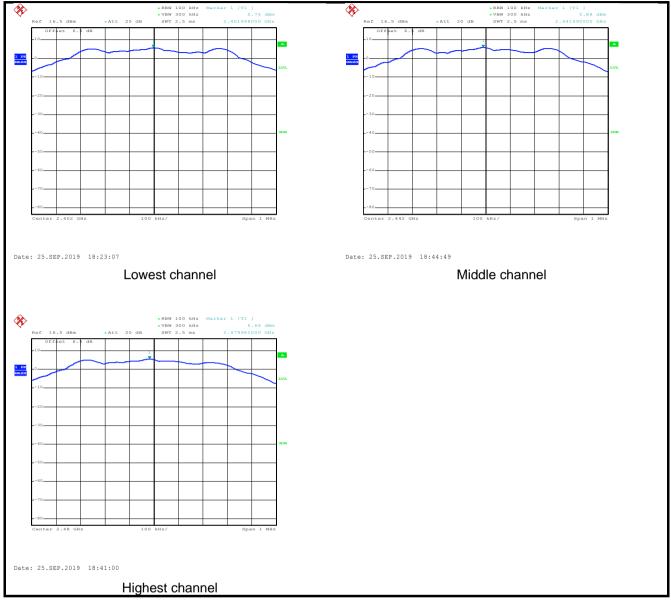
| Test Requirement: | FCC Part 15 C Section 15.247 (e) | | | |
|-------------------|---|--|--|--|
| Limit: | 8 dBm | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table | | | |
| | Ground Reference Plane | | | |
| Test Instruments: | Refer to section 5.9 for details | | | |
| Test mode: | Refer to section 5.3 for details | | | |
| Test results: | Passed | | | |

Measurement Data:

| Test CH | Power Spectral Density (dBm) | Limit(dBm) | Result |
|---------|------------------------------|------------|--------|
| Lowest | 5.75 | | |
| Middle | 5.88 | 8.00 | Pass |
| Highest | 5.66 | | |



Test plots as follow:





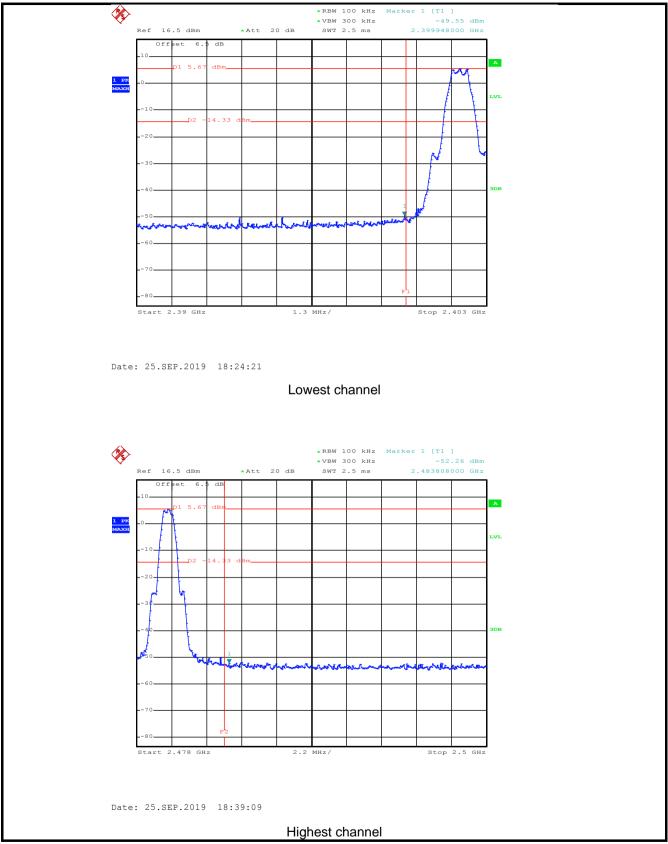
6.6 Band Edge

6.6.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | | |
|-------------------|---|--|--|--|--|--|
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | | |
| Test setup: | Spectrum Analyzer | | | | | |
| | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | |
| Test results: | Passed | | | | | |



Test plots as follow:

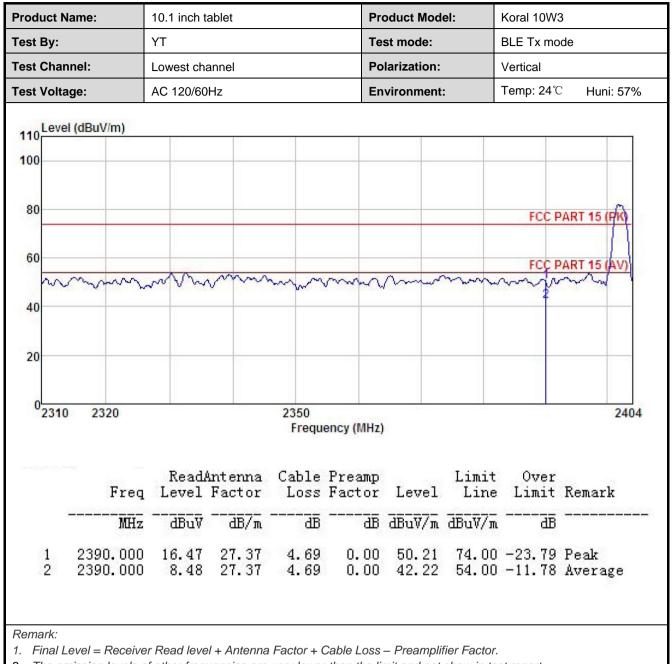




6.6.2 Radiated Emission Method

| 6.6.2 | Radiated Emission i | | | | | | |
|-------|-----------------------|---|---|---------------------|-------------------|---|-------------------------|
| | Test Requirement: | FCC Part 15 C Section 15.205 and 15.209 | | | | | |
| | Test Frequency Range: | 2.3GHz to 2.5 | z to 2.5GHz | | | | |
| | Test Distance: | 3m | | | | | |
| | Receiver setup: | Frequency | Detector | RBV | | /BW | Remark |
| | | Above 1GHz | Peak | 1MH | | MHz MHz | Peak Value |
| | Limit: | Frequer | | 1MH Limit (dBuV/ | | MHz | Average Value Remark |
| | Liffint. | • | | 54.0 | , | A | verage Value |
| | | Above 10 | GHz — | 74.0 | | | Peak Value |
| | Test Procedure: | the groun to determ 2. The EUT antenna, tower. 3. The anter the groun Both horiz make the 4. For each case and meters ar to find the 5. The test-r Specified 6. If the emist the limit s of the EU have 10 c | T was placed on the top of a rotating table 1.5 meters abound at a 3 meter camber. The table was rotated 360 degre rmine the position of the highest radiation. T was set 3 meters away from the interference-receiving a, which was mounted on the top of a variable-height anter tenna height is varied from one meter to four meters above und to determine the maximum value of the field strength. Drizontal and vertical polarizations of the antenna are set to the measurement. Ch suspected emission, the EUT was arranged to its worst and the nota table was turned from 0 degrees to 360 degree the maximum reading. St-receiver system was set to Peak Detect Function and ed Bandwidth with Maximum Hold Mode. mission level of the EUT in peak mode was 10 dB lower that t specified, then testing could be stopped and the peak value of dB margin would be re-tested one by one using peak, quar average method as specified and then reported in a data | | | ed 360 degrees ce-receiving e-height antenna meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and 0 dB lower than d the peak values ons that did not sing peak, quasi- | |
| | Test setup: | | EUT umtable) Gro Test Receive | 3m | Antenna Antenna T | rower | |
| | Test Instruments: | Refer to section | on 5.9 for det | ails | | | |
| | Test mode: | Refer to section | on 5.3 for det | ails | | | |
| | Test results: | Passed | | | | | |
| | | | | | | | |





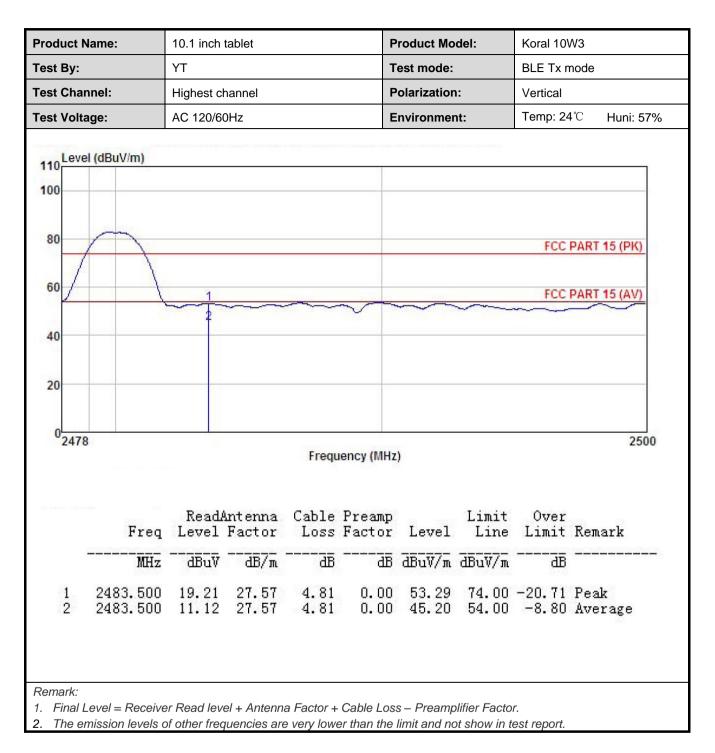
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



| roduct Name: | Name: 10.1 inch tablet | | | Product Model: | | Ko | Koral 10W3 | | |
|-----------------|------------------------|------------|-------------------|----------------|---------------|--------|------------|-------------|----------------|
| est By: | Y | ΎΤ | | | Test mo | de: | BL | BLE Tx mode | |
| est Channel: | L | owest cha | nnel | | Polarization: | | Но | orizontal | |
| est Voltage: | A | AC 120/60H | Ηz | | Environ | ment: | Те | emp: 24℃ | Huni: 57% |
| 110 Level (dBuV | (m) | | | | | | | | |
| Saltur | , | | | | | | | | |
| 100 | | | | | | | | | |
| - | | | | | | | | | |
| 80 | | | | | | | | FC | C PART 15 (PK) |
| 60 | | | | | | | | | |
| 19-10 State 1 | . Am | mm | m | ma | ~~~~ | m | ~~~~~ | FC | C PART 15 (AV) |
| 40 | - Y. | | | | | | | | |
| 40 | | | | | | | | | |
| 20 | | | | | | | | | |
| 20 | | | | | | | | | |
| 0 | 20 | | | 0050 | | | | | |
| °2310 232 | 20 | | | 2350 Free | juency (MH | z) | | | 2404 |
| | | | | | | | | | |
| | | ReadA | Intenna | Cable | Preamo | | Limit | Over | |
| F | Freq | Level | Intenna Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBu∛ | dB/m | dB | <u>dB</u> | dBuV/m | dBuV/m | <u>dB</u> | |
| 1 2390. | 000 | 17.17 | 27.37 | 4.69 | 0.00 | 50.91 | 74.00 | -23.09 | Peak |
| 2 2390. | 000 | 9.15 | | 4.69 | 0.00 | 42.89 | 54.00 | -11.11 | Average |
| | | | | | | | | | |
| | | | | | | | | | |









| | ame: 10.1 inch tablet | | | | Product Model: | | | Koral 10W3 | | |
|--|-----------------------|------------------------|------------------|---------------------|------------------|-----------------|---------------|--------------------|--|--|
| est By: | YT | | | | Test mod | le: | BLE | BLE Tx mode | | |
| est Channel: | | Highest channel | | | Polarizat | ion: | Hori | Horizontal | | |
| est Voltage: | AC | C 120/60H | z | | Environn | nent: | Tem | Temp: 24°C Huni: 5 | | |
| 110 100 80 60 40 20 0 170 | 'm) | 2 | | Freque | ncy (MHz) | | | | <u>RT 15 (PK)</u> <u>RT 15 (AV)</u> 2500 | |
| 2478 | | | | | | | | | | |
| 2478 | | | | | | | | | | |
| | Freq | ReadA Level | ntenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | | Remark | |
| | Freq MHz - | ReadA Level dBuV | Factor | Cable Loss dB | Factor | Level dBuV/m | Line | | Remark | |



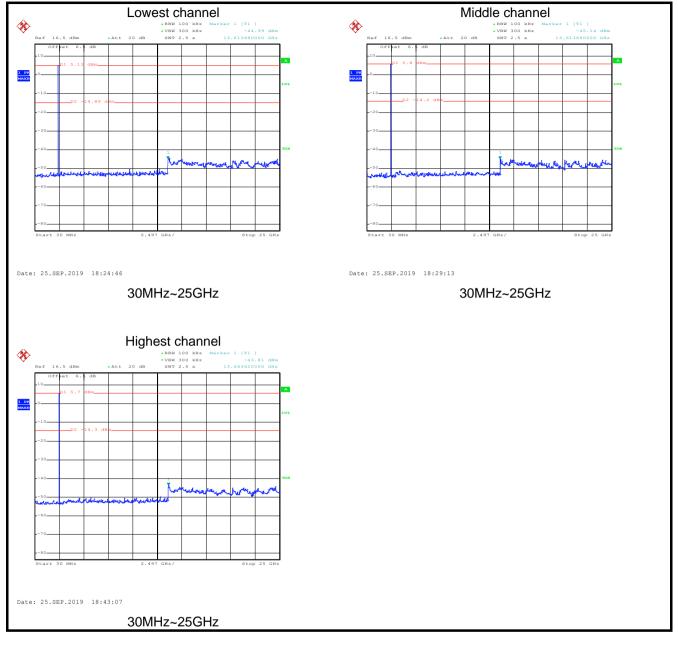
6.7 Spurious Emission

6.7.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | | |
|-------------------|---|--|--|--|--|--|
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | |
| Test results: | Passed | | | | | |



Test plot as follows:





6.7.2 Radiated Emission Method

| Test Requirement: | FCC Part 15 C Section 15.205 and 15.209 | | | | | | | |
|-----------------------|--|------------|--------------------|------|-----------------------------|------------------|--|--|
| Test Frequency Range: | 9kHz to 25GHz | | | | | | | |
| Test Distance: | 3m | | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | / VE | 3W | Remark | | |
| | 30MHz-1GHz | Quasi-peal | | | KHz | Quasi-peak Value | | |
| | | Peak | 1MH | z 3M | lHz | Peak Value | | |
| | Above 1GHz | RMS | 1MH: | z 3M | lHz | Average Value | | |
| Limit: | Frequency | y | Limit (dBuV/m @3m) | | | Remark | | |
| | 30MHz-88M | Hz | 40.0 | | | Quasi-peak Value | | |
| | 88MHz-216N | | 43.5 | | | Quasi-peak Value | | |
| | 216MHz-960 | | 46.0 | | | Quasi-peak Value | | |
| | 960MHz-1G | Hz | 54. | | C | Quasi-peak Value | | |
| | Above 1GF | lz – | 54.0 | | | Average Value | | |
| | | | 74.0 | - | | Peak Value | | |
| Test Procedure: | The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data | | | | | | | |
| Test setup: | | 3m < | | | Antenna Search Antenn | 1 | | |

Project No.: CCISE1909032



Report No: CCISE190903201

| | AE EUT Horn Artenna Tower Horn Artenna Tower Ground Reference Plane Test Receiver Test Receiver |
|-------------------|---|
| Test Instruments: | Refer to section 5.9 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report. |

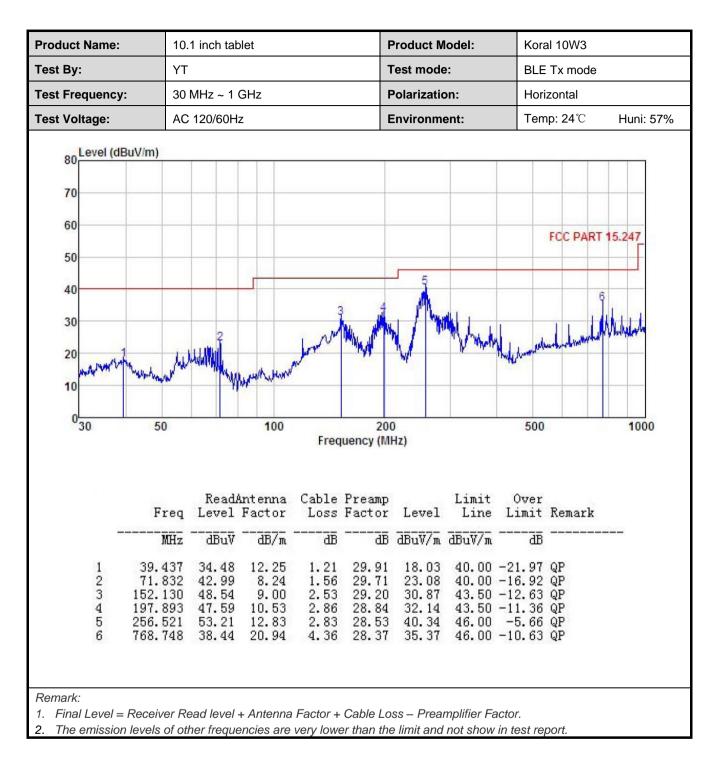


Measurement Data (worst case):

| Below | 1GHz: |
|-------|-------|
|-------|-------|

| Toutot Name. | uct Name: 10.1 inch tablet | | | | Product Model: | | | | Koral 10W3 | | |
|---|----------------------------|-------------------------------|------------------|------|------------------|-------------------------------|---------------|-------------|------------|-----------|--|
| est By: | ΥT | | | | Test mode: | | | BLE Tx mode | | | |
| est Frequency: | : 30 | 30 MHz ~ 1 GHz AC 120/60Hz | | | | Polarization: Environment: | | Vert | Vertical | | |
| est Voltage: | AC | | | | | | | Tem | p: 24℃ | Huni: 57% | |
| 80 Level (de 70 60 50 40 30 WWW 20 10 0 30 | 3uV/m) | | 100 | Freq | 200 uency (Mi | | | | FCC PART | | |
| | | | ntenna Factor | | | Level | Limit Line | | Remark | | |
| | Freq | rever | ractor | | | | | | | | |
| | Freq MHz | | dB/m | āĒ | <u>d</u> B | dBuV/m | dBuV/m | āB | | | |







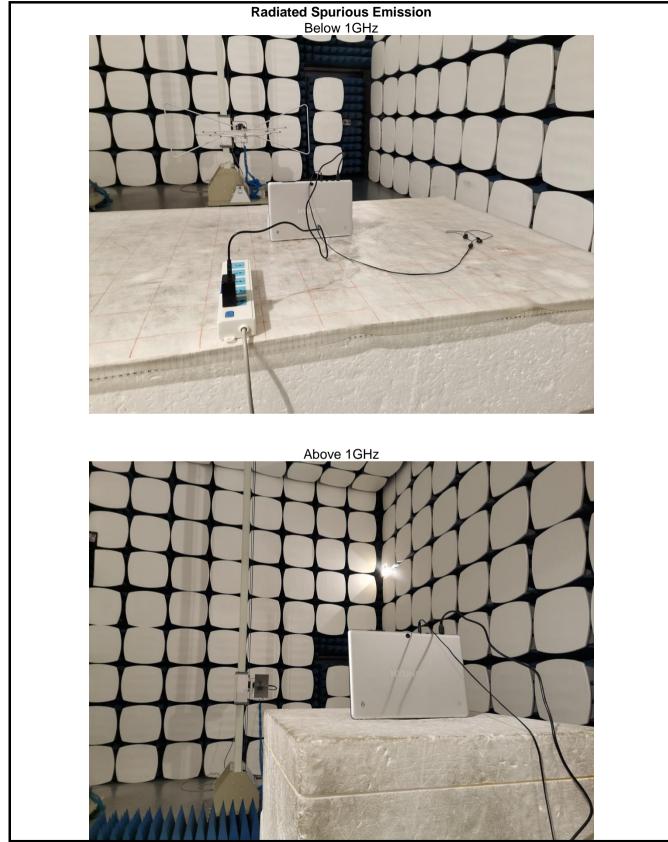
Above 1GHz

| | | | _ | | | | | | | |
|--|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|--|--|
| Test channel: Lowest channel | | | | | | | | | | |
| Detector: Peak Value | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | |
| 4804.00 | 51.69 | 30.85 | 6.80 | 41.81 | 47.53 | 74.00 | -26.47 | Vertical | | |
| 4804.00 | 51.57 | 30.85 | 6.80 | 41.81 | 47.41 | 74.00 | -26.59 | Horizontal | | |
| Detector: Average Value | | | | | | | | | | |
| | Read | Antenna | Cable | Preamp | | | Over | | | |
| Frequency (MHz) | Level (dBuV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Limit (dB) | Polarization | | |
| 4804.00 | 42.77 | 30.85 | 6.80 | 41.81 | 38.61 | 54.00 | -15.39 | Vertical | | |
| 4804.00 | 42.56 | 30.85 | 6.80 | 41.81 | 38.40 | 54.00 | -15.60 | Horizontal | | |
| | | | | | | | | | | |
| | | | Test ch | nannel: Mido | lle channel | | | | | |
| | | | De | tector: Peak | Value | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | |
| 4884.00 | 51.26 | 31.20 | 6.86 | 41.84 | 47.48 | 74.00 | -26.52 | Vertical | | |
| 4884.00 | 52.34 | 31.20 | 6.86 | 41.84 | 48.56 | 74.00 | -25.44 | Horizontal | | |
| | | | Dete | ector: Avera | ge Value | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | |
| 4884.00 | 41.45 | 31.20 | 6.86 | 41.84 | 37.67 | 54.00 | -16.33 | Vertical | | |
| 4884.00 | 42.79 | 31.20 | 6.86 | 41.84 | 39.01 | 54.00 | -14.99 | Horizontal | | |
| | | | Test ch | annel: High | est channel | | | | | |
| | | | De | tector: Peak | k Value | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | |
| 4960.00 | 52.32 | 31.63 | 6.91 | 41.87 | 48.99 | 74.00 | -25.01 | Vertical | | |
| 4960.00 | 53.49 | 31.63 | 6.91 | 41.87 | 50.16 | 74.00 | -23.84 | Horizontal | | |
| | | | Dete | ctor: Avera | ge Value | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | |
| 4960.00 | 43.26 | 31.63 | 6.91 | 41.87 | 39.93 | 54.00 | -14.07 | Vertical | | |
| 4960.00 | 42.15 | 31.63 | 6.91 | 41.87 | 38.82 | 54.00 | -15.18 | Horizontal | | |
| Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report. | | | | | | | | | | |

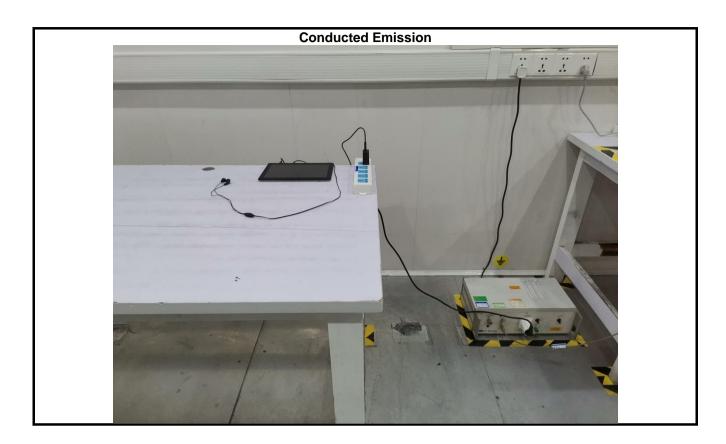








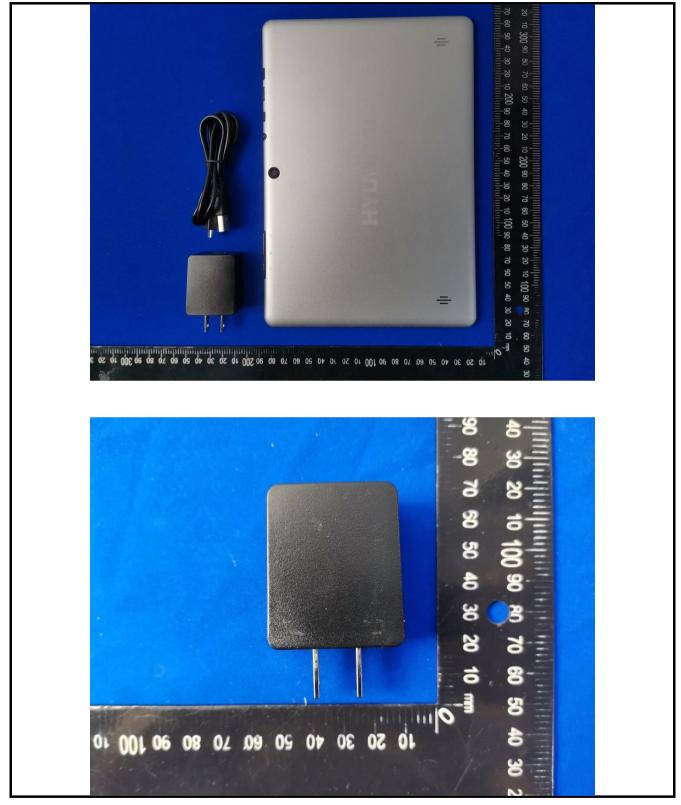






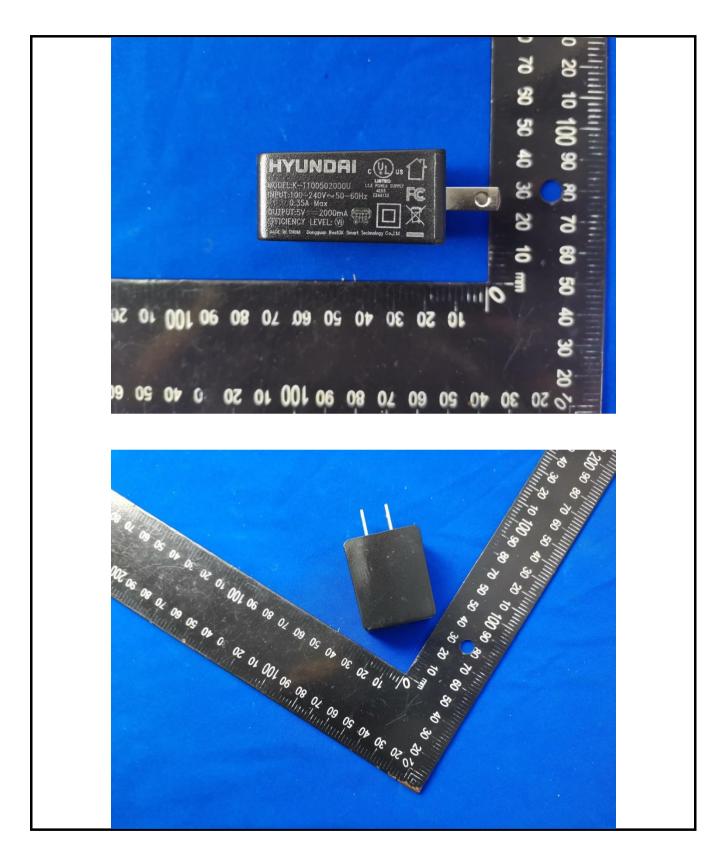


8 EUT Constructional Details



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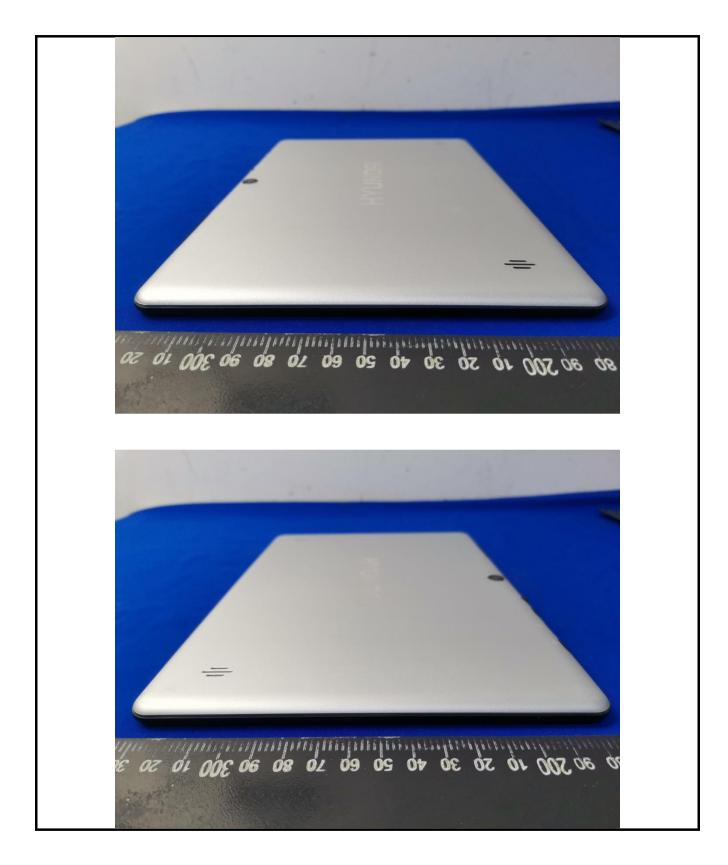




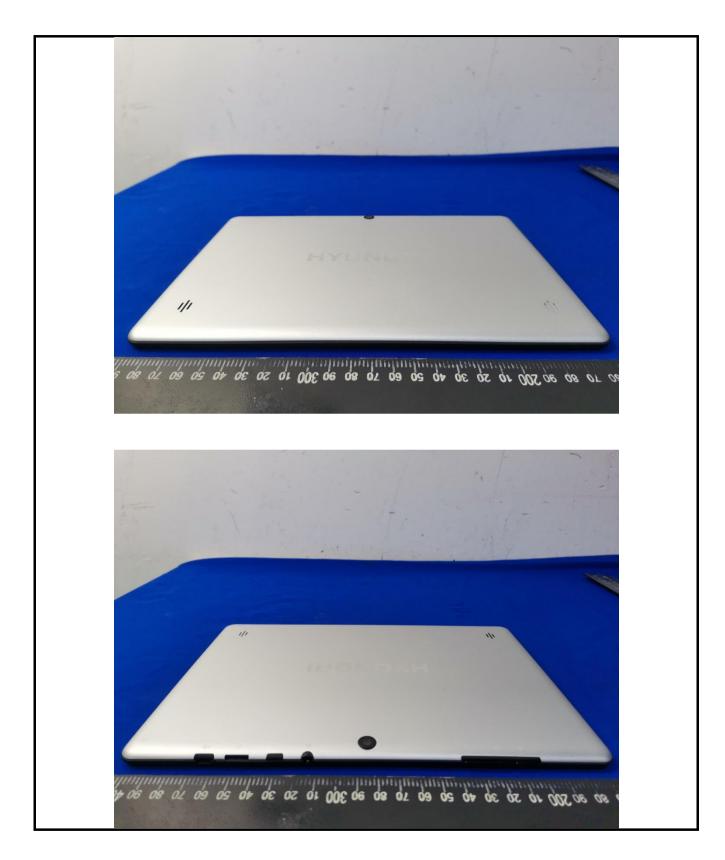




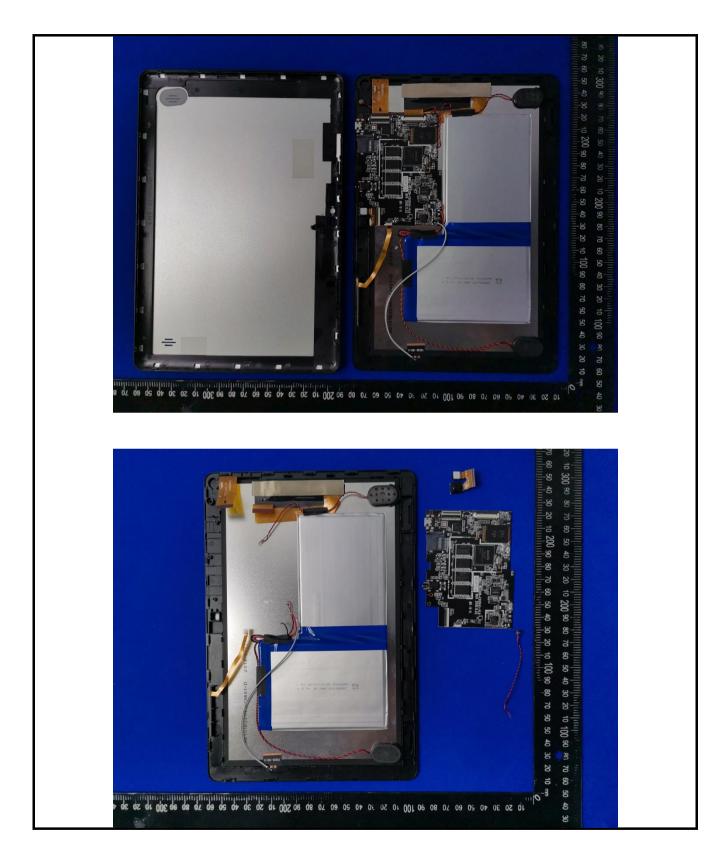




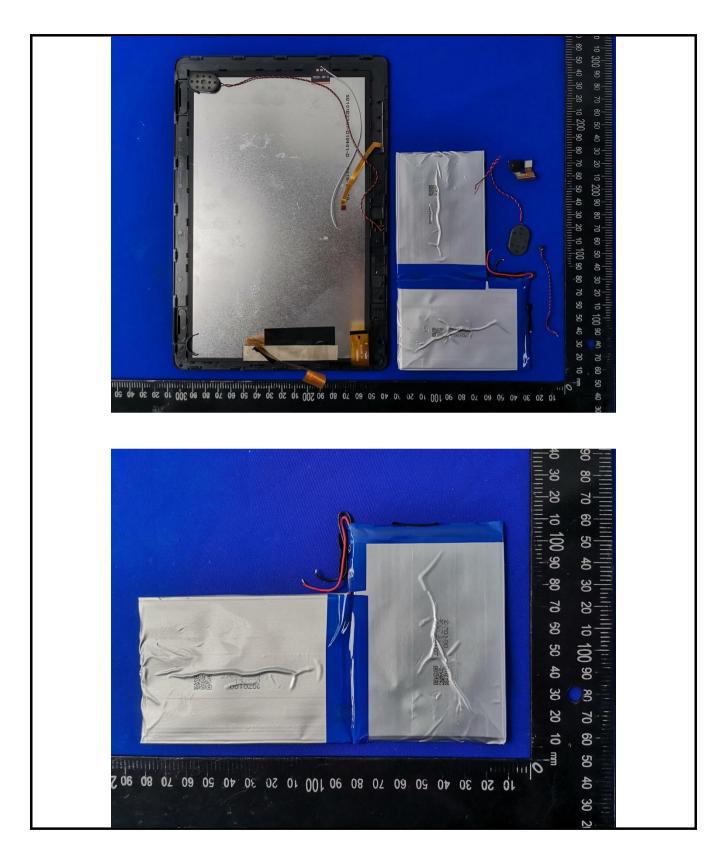






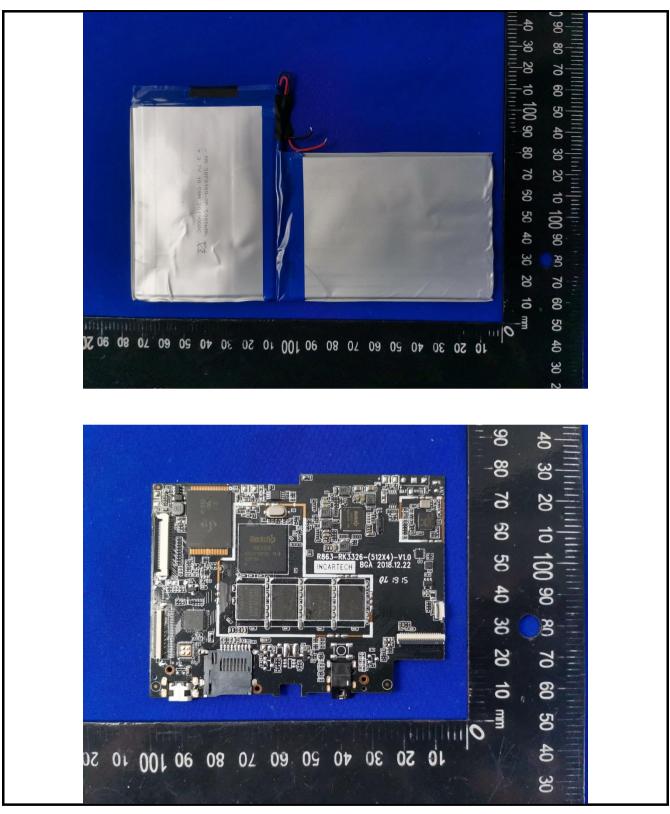






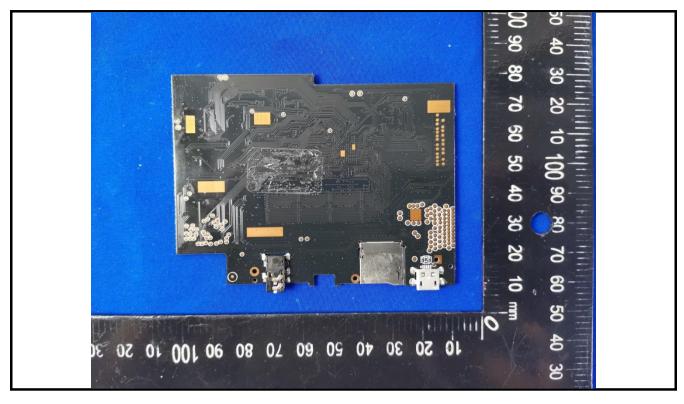


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