

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBEMI-WTW-P25020702-8

FCC ID: NOIKBN365B

Product: Electronic Display Device

Brand: Rakuten kobo

Model No.: N365B

Received Date: 2025/2/28

Test Date: 2025/4/21 ~ 2025/4/24

Issued Date: 2025/6/3

Applicant: NETRONIX, INC.

Address: No. 945, Boai St., Jubei City, Hsin-Chu, 30265, Taiwan

Factory: (1) NETRONIX, INC.

(2) NTX Electronics YANGZHOU CO., LTD.

Address: (1) No. 945, Boai St., Jubei City, Hsin-Chu, 30265, Taiwan

(2) No. 8, Wuzhou West Road, Economic and technological Development Zone,

Yangzhou, Jiangsu Province, 225009, China

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

This test report consists of 33 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.

Prepared by: Vera Huang / Specialist



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at https://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



Table of Contents

| Re | elea | lease Control Record3 | | | | |
|----|--|---|----|--|--|--|
| 1 | | Certificate | 4 | | | |
| 2 | | Summary of Test Results | 5 | | | |
| | 2.1 2.2 | | | | | |
| 3 | | General Information | 6 | | | |
| | 3.1 3.2 3.3 3.4 3.5 3.6 | Antenna Description of EUT Test Mode Applicability and Tested Channel Detail Test Program Used and Operation Descriptions Connection Diagram of EUT and Peripheral Devices | | | | |
| 4 | | Test Instruments | 10 | | | |
| | 4.1 4.2 4.3 | Unwanted Emissions above 1 GHz | 11 | | | |
| 5 | | Limits of Test Items | 12 | | | |
| | 5.1 5.2 5.3 | Unwanted Emissions above 1 GHz | 13 | | | |
| 6 | | Test Arrangements | 14 | | | |
| | 6.1. 6.1. 6.2. 6.2. 6.2. 6.3. 6.3. | .1 Test Setup | | | | |
| 7 | | Test Results of Test Item | 18 | | | |
| | 7.1 7.2 7.3 | Unwanted Emissions above 1 GHz | 22 | | | |
| 8 | | Pictures of Test Arrangements | 32 | | | |
| 9 | | Information of the Testing Laboratories | 33 | | | |



Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|------------------|-------------|
| RFBEMI-WTW-P25020702-8 | Original Release | 2025/6/3 |

Report No.: RFBEMI-WTW-P25020702-8 Page No. 3 / 33 Report Format Version: 7.1.1



1 Certificate

Product: Electronic Display Device

Brand: Rakuten kobo

Test Model: N365B

Sample Status: Engineering sample

Applicant: NETRONIX, INC.

Test Date: 2025/4/21 ~ 2025/4/24

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure:

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.



2 Summary of Test Results

| Standard / Clause | Test Item | Result | Remark |
|--|---------------------------------|--------|--------------------------------|
| 15.205 /15.209 /15.247(d) 15.407(b)(9) | Unwanted Emissions below 1 GHz | Pass | Meet the requirement of limit. |
| 15.205 /15.209 /15.247(d) 15.407(b) (1/2/3/4(i)/10) | Unwanted Emissions above 1 GHz | Pass | Meet the requirement of limit. |
| 15.247(d) | Conducted Out of Band Emissions | Pass | Meet the requirement of limit. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Parameter | Specification | Uncertainty (±) |
|---|-----------------|--------------------|
| Radiated Spurious Emissions below 1GHz | 9 kHz ~ 30 MHz | 2.44 dB |
| Radiated Spurious Effissions below 1912 | 30 MHz ~ 1 GHz | 2.95 dB |
| Dedicted Spurious Emissions above 1047 | 1 GHz ~ 18 GHz | 2.26 dB |
| Radiated Spurious Emissions above 1GHz | 18 GHz ~ 40 GHz | 1.94 dB |
| Conducted Out of Band Emissions | 9 kHz ~ 40 GHz | 2.79 dB |

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

Report No.: RFBEMI-WTW-P25020702-8 Page No. 5 / 33 Report Format Version: 7.1.1



3 General Information

3.1 General Description of EUT

| Product | Electronic Display Device | |
|-----------------------|---------------------------|-----------------------|
| Brand | Rakuten kobo | |
| Test Model | N365B | |
| | BT-EDR | FHSS |
| Modulation Technology | BT-LE | DTS |
| | WLAN | DSSS, OFDM |
| | ВТ | 2.402 GHz ~ 2.48 GHz |
| Operating Frequency | | 2.412 GHz ~ 2.462 GHz |
| Operating Frequency | WLAN | 5.18 GHz ~ 5.24 GHz |
| | | 5.745 GHz ~ 5.825 GHz |

Note:

1. The EUT uses following accessories.

| Item | Brand | Model | Supplier Model | Color | Specification | Material | TID number |
|-------------------------|--------------|--------------|-------------------|-------|---|----------|---------------|
| 1st source USB Cable | LUXSHARE-ICT | LB93US005-1H | - | Black | Signal Line : Shielded: Y, 1.0M, Core: N/A | TPE | - |
| 2nd source USB Cable | Yih Fone | SH-0846 | YF-USB2-A-C-1M(K) | Black | Signal Line : Shielded: Y, 1.0M, Core: N/A | TPE | 12574 |

2. The EUT will be supported with the following eMMC and DRAM LP-DDR4 sources.

| 2. The Let Will be deported with the following divinite and break Li BBITT courses. | | | | | |
|---|----------|---------------------|--|--|--|
| Item | Brand | Model | | | |
| 1st source eMMC | Phison | PTE7A0YJ-16GE | | | |
| 2nd source eMMC | Kingston | EMMC16G-PJ30-GA02 | | | |
| 3rd source eMMC | FORESEE | FEMDNN016G-A3A55 | | | |
| 1st source DRAM LP-DDR4 | Nanya | NT6AN256M16AV-J2 | | | |
| 2nd source DRAM LP-DDR4 | Leahkinn | LTHS0005GS4-ZPI1 | | | |
| 3rd source DRAM LP-DDR4 | Micron | MT53E256M16D1DS-046 | | | |

3. Simultaneously transmission condition.

| Condition | Technology | | | |
|--|----------------|-----------|--|--|
| 1 | WLAN (2.4 GHz) | Bluetooth | | |
| 2 WLAN (5 GHz) Bluetooth | | | | |
| Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found. | | | | |

^{4.} The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

Report No.: RFBEMI-WTW-P25020702-8 Page No. 6 / 33 Report Format Version: 7.1.1



3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Gain (dBi) | Frequency range | Antenna Type | Connector Type |
|------------|-----------------|--------------|----------------|
| 3.91 | 2.4~2.5GHz | Chip | N/A |
| 3.41 | 5.15~5.85GHz | Chip | N/A |

^{*} Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT provides 1 completed transmitter and 1 receiver.

| z. The EUT provides 1 completed transmitter and 1 receiver. | | | | | |
|---|-----------------------|---------------|--|--|--|
| | 2.4 GHz Band | | | | |
| Modulation Mode | TX & RX Configuration | | | | |
| 802.11b | 1TX | 1RX | | | |
| 802.11g | 1TX | 1RX | | | |
| 802.11n (HT20) | 1TX | 1RX | | | |
| | 5 GHz Band | | | | |
| Modulation Mode | TX & RX | Configuration | | | |
| 802.11a | 1TX | 1RX | | | |
| 802.11n (HT20) | 1TX | 1RX | | | |
| 802.11n (HT40) | 1TX | 1RX | | | |
| 802.11ac (VHT20) | 1TX | 1RX | | | |
| 802.11ac (VHT40) | 1TX | 1RX | | | |
| 802.11ac (VHT80) | 1TX | 1RX | | | |

Report No.: RFBEMI-WTW-P25020702-8 Page No. 7 / 33 Report Format Version: 7.1.1



3.3 Test Mode Applicability and Tested Channel Detail

| Pre-Scan: | For Radiated, pre-scan Power from AC Adpeter via USB Cable / Laptop via USB Cable / Battery and find the worst case as a representative test condition. EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition. The USB Cable has the following models: LB93US005-1H / SH-0846. Pre-scan these models of USB Cables and find the worst case as a representative test condition. The eMMC has the following models: PTE7A0YJ-16GE / EMMC16G-PJ30-GA02 / FEMDNN016G-A3A55. Pre-scan these models of eMMC and find the worst case as a representative test condition. The DRAM LP-DDR4 has the following models: NT6AN256M16AV-J2 / LTHS0005GS4-ZPI1 / MT53E256M16D1DS-046. Pre-scan these models of DRAM LP-DDR4 and find the worst case as a representative test condition. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). |
|-------------|--|
| Worst Case: | 1. For Radiated Worst Condition: Power from AC Adpeter via USB Cable 2. X-axis / Y-axis / Z-axis Worst Condition: Y-axis 3. USB Cable Worst Condition: SH-0846 4. eMMC Worst Condition: FEMDNN016G-A3A55 5. DRAM LP-DDR4 Worst Condition: MT53E256M16D1DS-046 |

Following channel(s) was (were) selected for the final test as listed below:

| Test Item | Combination | Mode | Tested Channel |
|----------------------------------|-------------|------------------|----------------|
| | 1 | 802.11n (HT20) | 6 |
| Unwanted Emissions below 1 GHz | ' I | GFSK | 78 |
| Offwarted Effissions below 1 GHZ | 2 | 802.11ac (VHT20) | 149 |
| | 2 | GFSK | 78 |
| | 1 | 802.11n (HT20) | 6 |
| Unwanted Emissions above 1 GHz | | GFSK | 78 |
| Onwanted Emissions above 1 GHz | 2 | 802.11ac (VHT20) | 149 |
| | 2 | GFSK | 78 |
| | 1 | 802.11n (HT20) | 6 |
| Conducted Out of Band Emissions | ı | GFSK | 78 |
| Conducted Out of Dania Emissions | 2 | 802.11ac (VHT20) | 149 |
| | 2 | | 78 |

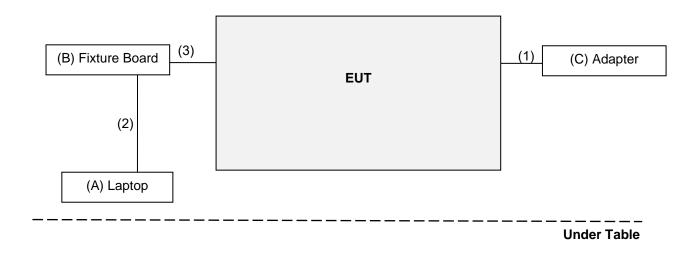
Report No.: RFBEMI-WTW-P25020702-8 Page No. 8 / 33 Report Format Version: 7.1.1



3.4 Test Program Used and Operation Descriptions

Controlling software Tera Term version 4.106 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|---------------|----------|------------------------------|------------|--------|-----------------------|
| A. | Laptop | Lenovo | L470 | PF0U96K5 | N/A | Provided by Lab |
| В. | Fixture Board | Netronix | N365B console board(1.8V) | N/A | N/A | Supplied by applicant |
| C. | Adapter | LITEON | PA-1050-39 | N/A | N/A | Provided by Lab |

| No. | Cable Descriptions | Qty. | Length (m) | Shielded (Yes/ No) | Cores (Qty.) | Remark |
|-----|--------------------|------|------------|-----------------------|-----------------|---|
| 1. | USB Cable | 1 | 1 | Yes | 0 | Accessory of EUT |
| 2. | USB Cable | 1 | 1 | Yes | 0 | Supplied by applicant |
| 3. | Console Cable | 1 | 0.6 | No | 0 | Supplied by applicant, Attached on Fixture Board |

Report No.: RFBEMI-WTW-P25020702-8 Page No. 9 / 33 Report Format Version: 7.1.1



4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Unwanted Emissions below 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|-----------------------------------|------------------------------|---------------|--------------------|---------------------|
| Antenna Tower &Turn Max-Full | MFA-440H | AT93021705 | N/A | N/A |
| Bi_Log Antenna Schwarzbeck | VULB 9168 | 9168-472 | 2024/10/14 | 2025/10/13 |
| EXA Signal Analyzer Agilent | N9010A | MY52220207 | 2024/12/30 | 2025/12/29 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | 2024/8/21 | 2025/8/20 |
| MXE EMI Receiver Keysight | N9038A | MY55420137 | 2024/5/8 | 2025/5/7 |
| Preamplifier | EMC 330H | 980112 | 2024/9/24 | 2025/9/23 |
| EMCI | EMC001340 | 980201 | 2024/9/24 | 2025/9/23 |
| RF Coaxial Cable Woken | 8D-FB | Cable-Ch10-01 | 2024/9/24 | 2025/9/23 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | N/A | N/A | N/A |
| Turn Table Max-Full | MFT-201SS | N/A | N/A | N/A |
| Turn Table Controller Max-Full | MG-7802 | N/A | N/A | N/A |

Notes:

1. The test was performed in HY - 966 chamber 5.

2. Tested Date: 2025/4/21

Report No.: RFBEMI-WTW-P25020702-8 Page No. 10 / 33 Report Format Version: 7.1.1



4.2 Unwanted Emissions above 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---------------------------------------|------------------------------|-------------------------------|--------------------|---------------------|
| Antenna Tower &Turn Max-Full | MFA-440H | AT93021705 | N/A | N/A |
| Boresight antenna tower fixture BV | BAF-02 | 7 | N/A | N/A |
| EXA Signal Analyzer Agilent | N9010A | MY52220207 | 2024/12/30 | 2025/12/29 |
| Horn Antenna | BBHA 9120D | 9120D-969 | 2024/11/10 | 2025/11/9 |
| Schwarzbeck | BBHA 9170 | 148 | 2024/11/10 | 2025/11/9 |
| MXE EMI Receiver Keysight | N9038A | MY55420137 | 2024/5/8 | 2025/5/7 |
| Preamplifier | EMC 012645 | 980115 | 2024/9/24 | 2025/9/23 |
| EMCI | EMC 184045 | 980116 | 2024/9/24 | 2025/9/23 |
| | EMC102-KM-KM-600 | 150928 | 2024/7/6 | 2025/7/5 |
| RF Coaxial Cable | EMC102-KM-KM-3000 | 150929 | 2024/7/6 | 2025/7/5 |
| EMCI | EMC104-SM-SM- 8000+3000 | 171005 | 2024/9/24 | 2025/9/23 |
| RF Coaxial Cable HUBER+SUHNER | SUCOFLEX 104 | EMC104-SM-SM- 1000(140807) | 2024/9/24 | 2025/9/23 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | N/A | N/A | N/A |
| Turn Table Max-Full | MFT-201SS | N/A | N/A | N/A |
| Turn Table Controller Max-Full | MG-7802 | N/A | N/A | N/A |

Notes:

1. The test was performed in HY - 966 chamber 5.

2. Tested Date: 2025/4/21 ~ 2025/4/23

4.3 Conducted Out of Band Emissions

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|-----------------------------------|----------------------------------|------------|--------------------|---------------------|
| Signal & Spectrum Analyzer R&S | FSV3044 | 101504 | 2024/6/18 | 2025/6/17 |
| Software BV | ADT_RF Test Software V7.6.5.4 | N/A | N/A | N/A |

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2025/4/24



5 Limits of Test Items

5.1 Unwanted Emissions below 1 GHz

For FCC 15.247:

| Frequencies (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 |

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

For FCC 15.407:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (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 |

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).



5.2 Unwanted Emissions above 1 GHz

For FCC 15.247:

| Frequencies | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (meters) |
| Above 960 | 500 | 3 |

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

For FCC 15.407 transmitters operating in the 5.150-5.850 GHz band:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) | |
|-------------------|-----------------------------------|-------------------------------|--|
| Above 960 | 500 | 3 | |

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Applicable To | Liı | mit |
|--|-----------------------|-----------------|
| 789033 D02 General UNII Test Procedure New Rules | Field Strength at 3 m | |
| v02r01 | PK: 74 (dBμV/m) | AV: 54 (dBμV/m) |

| Applicable To | EIRP Limit | Equivalent Field Strength at 3 m | |
|-----------------|---|---|--|
| 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.2 (dBµV/m) * | |
| 15.407(b)(2) | PK: -27 (dBm/MHz) | PK: 68.2 (dBµV/m) * | |
| 15.407(b)(3) | PK: -27 (dBm/MHz) | PK: 68.2 (dBµV/m) * | |
| 15.407(b)(4)(i) | PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4} | PK: 68.2 (dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8 (dBμV/m) *3 PK: 122.2 (dBμV/m) *4 | |

^{*1} beyond 75 MHz or more above of the band edge.

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

E =
$$\frac{1000000\sqrt{30P}}{2}$$
 µV/m, where P is the eirp (Watts).

5.3 Conducted Out of Band Emissions

Below 30 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

Report No.: RFBEMI-WTW-P25020702-8 Page No. 13 / 33 Report Format Version: 7.1.1

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

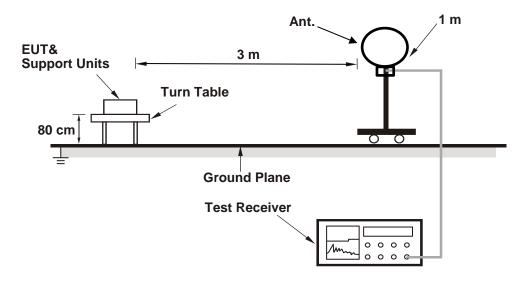


6 Test Arrangements

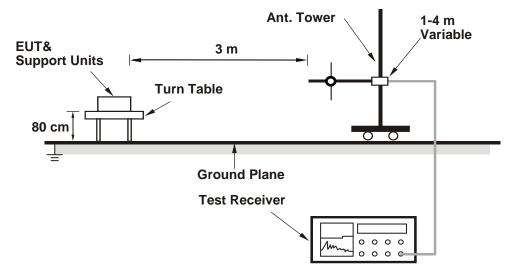
6.1 Unwanted Emissions below 1 GHz

6.1.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).



6.1.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
- 3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

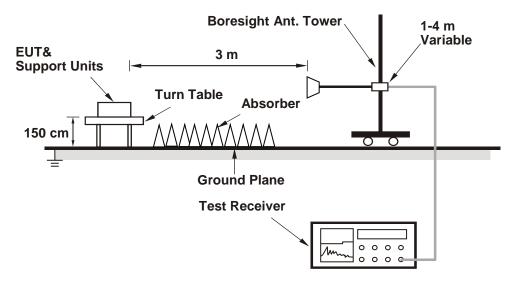
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

Report No.: RFBEMI-WTW-P25020702-8 Page No. 15 / 33 Report Format Version: 7.1.1



6.2 Unwanted Emissions above 1 GHz

6.2.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.2.2 Test Procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- 2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.



6.3 Conducted Out of Band Emissions

6.3.1 Test Setup



6.3.2 Test Procedure

MEASUREMENT PROCEDURE REF

- a. Set the RBW = 100 kHz.
- b. Set the VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep time = auto couple.
- e. Trace mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- a. Set RBW = 100 kHz.
- b. Set VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep = auto couple.
- e. Trace Mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum amplitude level.

Report No.: RFBEMI-WTW-P25020702-8 Page No. 17 / 33 Report Format Version: 7.1.1



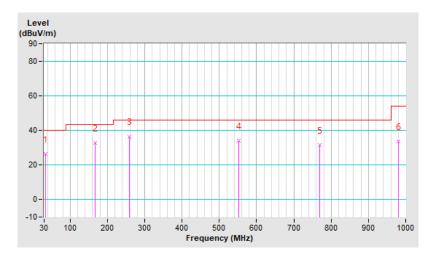
7 Test Results of Test Item

7.1 Unwanted Emissions below 1 GHz

| Combination | 1 | | |
|-----------------|----------------|-------------------------------|-------------------------------|
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 18 °C, 67 % RH |
| Tested By | Rex Wang | | |

| | Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 33.88 | 26.4 QP | 40.0 | -13.6 | 2.00 H | 57 | 39.3 | -12.9 |
| 2 | 167.74 | 32.8 QP | 43.5 | -10.7 | 1.00 H | 171 | 45.3 | -12.5 |
| 3 | 258.92 | 36.4 QP | 46.0 | -9.6 | 1.00 H | 202 | 49.6 | -13.2 |
| 4 | 551.86 | 34.0 QP | 46.0 | -12.0 | 1.00 H | 278 | 39.8 | -5.8 |
| 5 | 769.14 | 31.6 QP | 46.0 | -14.4 | 1.00 H | 281 | 32.2 | -0.6 |
| 6 | 979.63 | 33.5 QP | 54.0 | -20.5 | 1.00 H | 248 | 32.6 | 0.9 |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

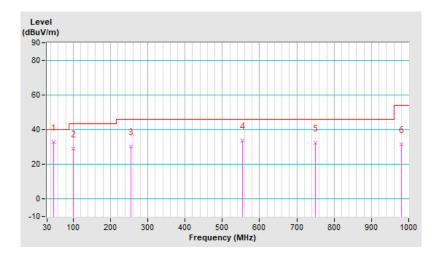




| | | | VERITAS |
|-----------------|----------------|-------------------------------|-------------------------------|
| Combination | 1 | | |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 18 °C, 67 % RH |
| Tested By | Rex Wang | | |

| | Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 48.43 | 32.7 QP | 40.0 | -7.3 | 1.00 V | 99 | 44.9 | -12.2 |
| 2 | 100.81 | 29.1 QP | 43.5 | -14.4 | 1.00 V | 244 | 45.7 | -16.6 |
| 3 | 254.07 | 30.1 QP | 46.0 | -15.9 | 1.00 V | 213 | 43.5 | -13.4 |
| 4 | 554.77 | 33.6 QP | 46.0 | -12.4 | 1.50 V | 167 | 39.5 | -5.9 |
| 5 | 749.74 | 32.2 QP | 46.0 | -13.8 | 1.00 V | 269 | 33.1 | -0.9 |
| 6 | 979.63 | 31.7 QP | 54.0 | -22.3 | 1.00 V | 38 | 30.8 | 0.9 |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

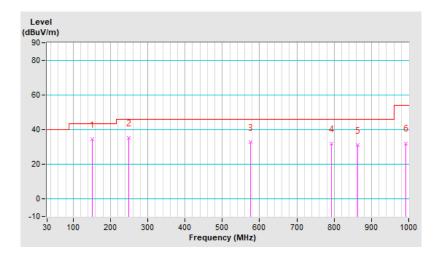




| | | | VERITAS |
|-----------------|----------------|-------------------------------|-------------------------------|
| Combination | 2 | | |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 18 °C, 67 % RH |
| Tested By | Rex Wang | | |

| | Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 150.28 | 34.3 QP | 43.5 | -9.2 | 1.00 H | 192 | 46.5 | -12.2 |
| 2 | 248.25 | 35.3 QP | 46.0 | -10.7 | 1.00 H | 189 | 48.9 | -13.6 |
| 3 | 575.14 | 32.8 QP | 46.0 | -13.2 | 1.00 H | 263 | 38.2 | -5.4 |
| 4 | 792.42 | 31.9 QP | 46.0 | -14.1 | 1.50 H | 52 | 32.7 | -0.8 |
| 5 | 863.23 | 31.3 QP | 46.0 | -14.7 | 1.00 H | 7 | 31.7 | -0.4 |
| 6 | 992.24 | 32.2 QP | 54.0 | -21.8 | 1.00 H | 156 | 31.3 | 0.9 |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

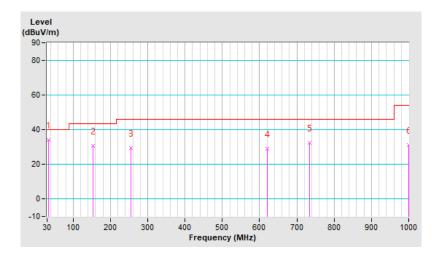




| | | | VERITAS |
|-----------------|----------------|-------------------------------|-------------------------------|
| Combination | 2 | | |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 18 °C, 67 % RH |
| Tested By | Rex Wang | | |

| | Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 33.88 | 34.0 QP | 40.0 | -6.0 | 1.00 V | 303 | 46.9 | -12.9 |
| 2 | 153.19 | 30.6 QP | 43.5 | -12.9 | 1.00 V | 260 | 42.9 | -12.3 |
| 3 | 255.04 | 29.2 QP | 46.0 | -16.8 | 1.00 V | 218 | 42.5 | -13.3 |
| 4 | 620.73 | 29.0 QP | 46.0 | -17.0 | 1.00 V | 62 | 33.1 | -4.1 |
| 5 | 734.22 | 32.3 QP | 46.0 | -13.7 | 1.00 V | 2 | 33.9 | -1.6 |
| 6 | 1000.00 | 31.3 QP | 54.0 | -22.7 | 1.50 V | 24 | 30.2 | 1.1 |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.





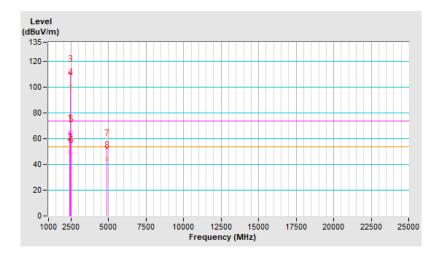
7.2 Unwanted Emissions above 1 GHz

FCC 15.247: 802.11n (HT20)

| | • • | | |
|-----------------|----------------|--------------------------|--|
| Combination | 1 | | |
| Frequency Range | 1 GHz ~ 25 GHz | | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

| | Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2390 | 65.4 PK | 74.0 | -8.6 | 1.59 H | 49 | 29.9 | 35.5 |
| 2 | 2390 | 49.8 AV | 54.0 | -4.2 | 1.59 H | 49 | 14.3 | 35.5 |
| 3 | *2437 | 110.8 PK | | | 1.59 H | 49 | 75.5 | 35.3 |
| 4 | *2437 | 100.4 AV | | | 1.59 H | 49 | 65.1 | 35.3 |
| 5 | 2483.5 | 63.8 PK | 74.0 | -10.2 | 1.59 H | 49 | 28.5 | 35.3 |
| 6 | 2483.5 | 48.2 AV | 54.0 | -5.8 | 1.59 H | 49 | 12.9 | 35.3 |
| 7 | 4874 | 53.0 PK | 74.0 | -21.0 | 2.43 H | 123 | 48.4 | 4.6 |
| 8 | 4874 | 43.8 AV | 54.0 | -10.2 | 2.43 H | 123 | 39.2 | 4.6 |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

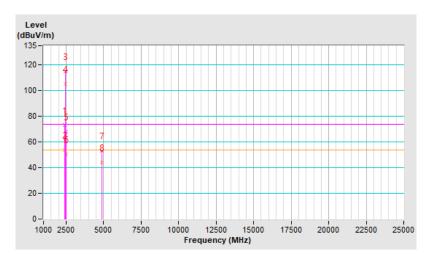




| | | | VERITAS |
|-----------------|----------------|--------------------------|--|
| Combination | 1 | | |
| Frequency Range | 1 GHz ~ 25 GHz | | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

| | Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2390 | 73.0 PK | 74.0 | -1.0 | 1.69 V | 181 | 37.5 | 35.5 |
| 2 | 2390 | 53.5 AV | 54.0 | -0.5 | 1.69 V | 181 | 18.0 | 35.5 |
| 3 | *2437 | 115.1 PK | | | 1.69 V | 181 | 79.8 | 35.3 |
| 4 | *2437 | 105.0 AV | | | 1.69 V | 181 | 69.7 | 35.3 |
| 5 | 2483.5 | 68.2 PK | 74.0 | -5.8 | 1.69 V | 181 | 32.9 | 35.3 |
| 6 | 2483.5 | 50.4 AV | 54.0 | -3.6 | 1.69 V | 181 | 15.1 | 35.3 |
| 7 | 4874 | 53.3 PK | 74.0 | -20.7 | 2.38 V | 99 | 48.7 | 4.6 |
| 8 | 4874 | 44.2 AV | 54.0 | -9.8 | 2.38 V | 99 | 39.6 | 4.6 |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



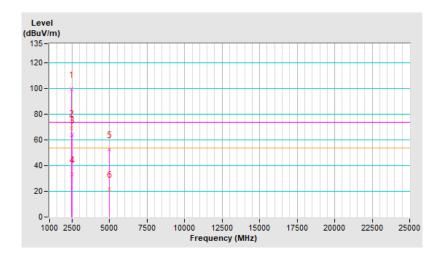


FCC 15.247: GFSK

| Combination | 1 | | |
|-----------------|----------------|-------------------------------|---|
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

| | Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) | |
| 1 | *2480 | 99.6 PK | | | 1.35 H | 153 | 64.3 | 35.3 | |
| 2 | *2480 | 69.1 AV | | | 1.35 H | 153 | 33.8 | 35.3 | |
| 3 | 2483.5 | 63.8 PK | 74.0 | -10.2 | 1.59 H | 49 | 63.6 | 0.2 | |
| 4 | 2483.5 | 33.3 AV | 54.0 | -20.7 | 1.59 H | 49 | 33.1 | 0.2 | |
| 5 | 4960 | 52.4 PK | 74.0 | -21.6 | 1.65 H | 214 | 47.6 | 4.8 | |
| 6 | 4960 | 21.9 AV | 54.0 | -32.1 | 1.65 H | 214 | 17.1 | 4.8 | |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

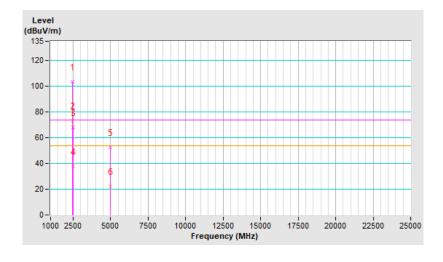




| | | | VERITAS |
|-----------------|----------------|-------------------------------|---|
| Combination | 1 | | |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

| | Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) | |
| 1 | *2480 | 103.5 PK | | | 1.42 V | 159 | 68.2 | 35.3 | |
| 2 | *2480 | 73.0 AV | | | 1.42 V | 159 | 37.7 | 35.3 | |
| 3 | 2483.5 | 68.2 PK | 74.0 | -5.8 | 1.69 V | 181 | 68.0 | 0.2 | |
| 4 | 2483.5 | 37.7 AV | 54.0 | -16.3 | 1.69 V | 181 | 37.5 | 0.2 | |
| 5 | 4960 | 52.8 PK | 74.0 | -21.2 | 2.14 V | 86 | 48.0 | 4.8 | |
| 6 | 4960 | 22.3 AV | 54.0 | -31.7 | 2.14 V | 86 | 17.5 | 4.8 | |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



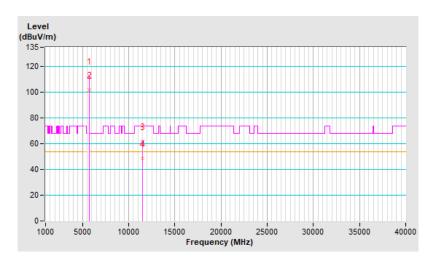


FCC 15.407: 802.11ac (VHT20)

| Combination | 2 | | |
|-----------------|----------------|--------------------------|--|
| Frequency Range | 1 GHz ~ 40 GHz | | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

| | Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) | | |
| 1 | *5745 | 112.7 PK | | | 2.01 H | 285 | 70.9 | 41.8 | | |
| 2 | *5745 | 102.1 AV | | | 2.01 H | 285 | 60.3 | 41.8 | | |
| 3 | 11490 | 61.7 PK | 74.0 | -12.3 | 2.43 H | 99 | 48.7 | 13.0 | | |
| 4 | 11490 | 48.6 AV | 54.0 | -5.4 | 2.43 H | 99 | 35.6 | 13.0 | | |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

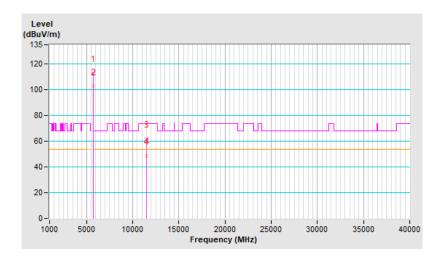




| | | | VERITAS |
|-----------------|----------------|-------------------------------|--|
| Combination | 2 | | |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

| | Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) | |
| 1 | *5745 | 112.8 PK | | | 2.03 V | 65 | 71.0 | 41.8 | |
| 2 | *5745 | 102.3 AV | | | 2.03 V | 65 | 60.5 | 41.8 | |
| 3 | 11490 | 62.0 PK | 74.0 | -12.0 | 1.76 V | 215 | 49.0 | 13.0 | |
| 4 | 11490 | 48.9 AV | 54.0 | -5.1 | 1.76 V | 215 | 35.9 | 13.0 | |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



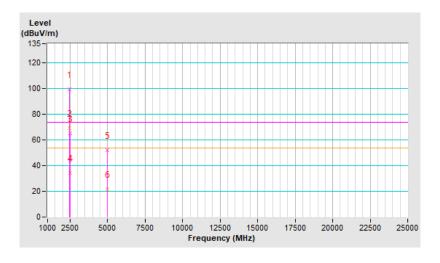


FCC 15.247: GFSK

| Combination | 2 | | |
|-----------------|----------------|-------------------------------|---|
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

| | Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) | | |
| 1 | *2480 | 99.6 PK | | | 1.27 H | 153 | 64.3 | 35.3 | | |
| 2 | *2480 | 69.1 AV | | | 1.27 H | 153 | 33.8 | 35.3 | | |
| 3 | 2483.5 | 65.0 PK | 74.0 | -9.0 | 1.27 H | 153 | 29.7 | 35.3 | | |
| 4 | 2483.5 | 34.5 AV | 54.0 | -19.5 | 1.27 H | 153 | -0.8 | 35.3 | | |
| 5 | 4960 | 52.2 PK | 74.0 | -21.8 | 1.83 H | 221 | 47.4 | 4.8 | | |
| 6 | 4960 | 21.7 AV | 54.0 | -32.3 | 1.83 H | 221 | 16.9 | 4.8 | | |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

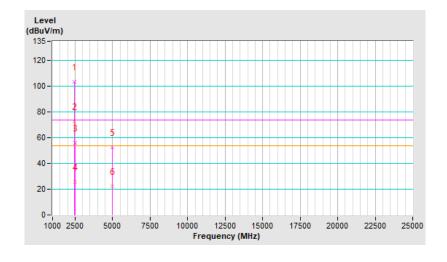




| | | | VERITAS |
|-----------------|----------------|-------------------------------|---|
| Combination | 2 | | |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22 °C, 62 % RH |
| Tested By | Vincent Chen | | |

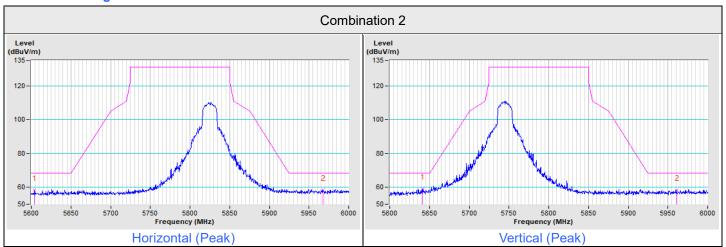
| | Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) | |
| 1 | *2480 | 103.3 PK | | | 1.39 V | 153 | 68.0 | 35.3 | |
| 2 | *2480 | 72.8 AV | | | 1.39 V | 153 | 37.5 | 35.3 | |
| 3 | 2483.5 | 56.2 PK | 74.0 | -17.8 | 1.39 V | 153 | 20.9 | 35.3 | |
| 4 | 2483.5 | 25.7 AV | 54.0 | -28.3 | 1.39 V | 153 | -9.6 | 35.3 | |
| 5 | 4960 | 52.9 PK | 74.0 | -21.1 | 2.68 V | 92 | 48.1 | 4.8 | |
| 6 | 4960 | 22.4 AV | 54.0 | -31.6 | 2.68 V | 92 | 17.6 | 4.8 | |

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.





Plot of Band Edge

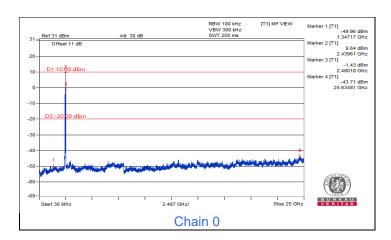




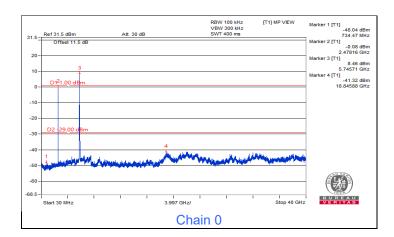
7.3 Conducted Out of Band Emissions

| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 23°C, 65% RH | Tested By: | Tim Chen |
|--------------|----------------|---------------------------|--------------|------------|----------|
|--------------|----------------|---------------------------|--------------|------------|----------|

Combination 1



Combination 2





8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

Report No.: RFBEMI-WTW-P25020702-8 Page No. 32 / 33 Report Format Version: 7.1.1



9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180 Fax: 886-2-26051924

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@bureauveritas.com
Web Site: http://ee.bureauveritas.com.tw

The address and road map of all our labs can be found in our web site also.

--- END ---

Report No.: RFBEMI-WTW-P25020702-8 Page No. 33 / 33 Report Format Version: 7.1.1