

# VARIANT FCC TEST REPORT (RFID)

**REPORT NO.:** RF130814C33B-5

MODEL NO.: NeverLost® 6 Tablet

FCC ID: 2AA4L-HTZNLTABLET

**RECEIVED:** Jun. 09, 2014

**TESTED:** Jun. 20, 2014

**ISSUED:** Jul. 01, 2014

**Applicant:** MiTAC International Corp.

Address: Building B, No. 209, Sec. 1, Nan Gang Rd., Nan Gang Dist.,

Taipei 11568, Taiwan, R.O.C.

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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### **RELEASE CONTROL RECORD**

| ISSUE NO.      | REASON FOR CHANGE | DATE ISSUED   |
|----------------|-------------------|---------------|
| RF130814C33B-5 | Original release  | Jul. 01, 2014 |



#### 1. CERTIFICATION

**PRODUCT:** Automotive Navigation Device

**MODEL:** NeverLost® 6 Tablet

**BRAND:** Hertz

**APPLICANT:** MiTAC International Corp.

**TESTED:** Jun. 20, 2014

**TEST SAMPLE:** Production Unit

STANDARDS: FCC Part 15, Subpart C (Section 15.225)

FCC Part 15, Subpart C (Section 15.215)

ANSI C63.10-2009

This report is issued as a supplementary report to BV ADT report no.: RF130814C33-5. This report shall be used by combining with its original report.

PREPARED BY: , DATE: Jul. 01, 2014

Gina Liu / Specialist

APPROVED BY : \_\_\_\_\_\_\_, DATE : \_\_\_\_\_\_\_, Jul. 01, 2014

Sam Chen / Senior Project Engineer



#### 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.225, 15.215) |   |   |  |  |  |
|---|---|---|--|--|--|
| STANDARD<br>SECTION   | TEST TYPE AND LIMIT   | REMARK  |  |  |  |
| 15.207  | Conducted emission test   | NA  | Refer to Note  |  |  |
| 15.225 (a)  | The field strength of any emissions within the band 13.553-13.567 MHz | PASS  | Meet the requirement of limit.<br>Minimum passing margin is<br>-60.77dB at 13.56MHz. |  |  |
| 15.225 (d) appearing outside of the 13.110-14.010 PASS Mir        |   | Meet the requirement of limit.<br>Minimum passing margin is<br>-6.04dB at 40.53MHz. |  |  |  |
| 15.225 (e)  | The frequency tolerance   | NA  | Refer to Note  |  |  |
| 15.215 (c)  | 20dB Bandwidth  | NA  | Refer to Note  |  |  |

#### NOTE:

- 1. "NA" means Not Applicable.
- 2. Only radiated emissions test was performed for this addendum. Refer to original report for other test data.

#### 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:

| MEASUREMENT        | FREQUENCY       | UNCERTAINTY |
|--------------------|-----------------|-------------|
| Conducted Emission | 150kHz ~ 30MHz  | 2.44 dB     |
| Dadiated emissions | 30MHz ~ 200MHz  | 3.34 dB     |
| Radiated emissions | 200MHz ~1000MHz | 3.35 dB     |

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



#### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

| EUT                 | Automotive Navigation Device |
|---------------------|------------------------------|
| MODEL NO.           | NeverLost® 6 Tablet          |
| POWER SUPPLY        | 3.7Vdc (battery)             |
| MODULATION TYPE     | ASK                          |
| OPERATING FREQUENCY | 13.56MHz                     |
| ANTENNA TYPE        | Loop Antenna                 |
| DATA CABLE          | Refer to Note                |
| I/O PORTS           | Refer to user's manual       |
| ACCESSORY DEVICES   | Refer to Note                |

#### NOTE:

- 1. This report is issued as a supplementary report to BV ADT report no.: RF130814C33-5. The difference compared with original report is update Main board. Therefore, only radiated emissions test was performed and presented in the test report.
- 2. The EUT contains following accessory devices.

| ITEM        | BRAND     | MODEL   | DESCRIPTION            |
|-------------|-----------|---------|------------------------|
| Battery     | Tian Yu   | N425    | Rating: 3.7Vdc, 920mAh |
| WWAN Module | CINTERION | PHS8-P  |                        |
| WLAN Module | nFore     | NF3301  |                        |
| NFC Module  | Jogtek    | TM-007A |                        |
| BT Module   | nFore     | NF3301  |                        |

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



#### 3.2 DESCRIPTION OF TEST MODES

#### 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT<br>CONFIGURE | APPLICABLE TO | DESCRIPTION |
|------------------|---------------|-------------|
| MODE             | RE            | DESCRIPTION |
| -                | $\checkmark$  | -           |

Where RE: Radiated Emission

#### NOTE:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

#### **RADIATED EMISSION TEST:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations antenna ports (if EUT with antenna diversity architecture).

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

| EUT<br>CONFIGURE<br>MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE |
|--------------------------|-------------------|----------------|-----------------|
| -                        | 1                 | 1              | ASK             |

#### **TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER  | TESTED BY |
|---------------|--------------------------|--------------|-----------|
| RE            | 25deg. C, 65%RH          | 120Vac, 60Hz | Anson Lin |

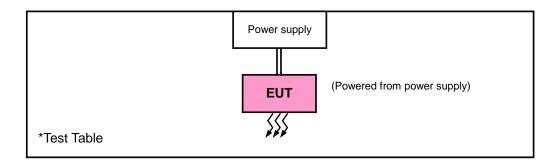
Report No.: RF130814C33B-5 Reference No.: 140609C17 7 of 21 Report Format Version 5.0.0



#### 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units.

#### 3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



#### 3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RFID Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.225) FCC Part 15, Subpart C (15.215) ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



#### 4. TEST TYPES AND RESULTS

#### 4.1 RADIATED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

| 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                             |

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .
- 3. As shown in 15.35(b), for frequencies above 1000MHz, 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 20dB under any condition of modulation.

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#### 4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER                    | MODEL NO.      | SERIAL NO.          | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|----------------|---------------------|---------------------|-------------------------|
| Test Receiver<br>ROHDE & SCHWARZ              | ESCI           | 100424              | Sep. 09, 2013       | Sep. 08, 2014           |
| Spectrum Analyzer ROHDE & SCHWARZ             | FSU 43         | 100115              | Dec. 18, 2013       | Dec. 17, 2014           |
| BILOG Antenna<br>SCHWARZBECK                  | VULB9168       | 9168-155            | Feb. 26, 2014       | Feb. 25, 2015           |
| HORN Antenna<br>SCHWARZBECK                   | BBHA 9120D     | 9120D-404           | Jan. 05, 2014       | Jan. 04, 2015           |
| Preamplifier<br>EMCI                          | EMC 012645     | 980115              | Dec. 26, 2013       | Dec. 25, 2014           |
| Preamplifier<br>EMCI                          | EMC 184045     | 980116              | Jan. 13, 2014       | Jan. 12, 2015           |
| Preamplifier<br>EMCI                          | EMC 330H       | 980112              | Dec. 27, 2013       | Dec. 26, 2014           |
| RF signal cable<br>HUBER+SUHNNER              | SUCOFLEX 104   | 309219/4<br>2950114 | Oct. 18, 2013       | Oct. 17, 2014           |
| RF signal cable<br>HUBER+SUHNNER              | SUCOFLEX 104   | 250130/4            | Oct. 18, 2013       | Oct. 17, 2014           |
| RF signal cable<br>Worken                     | RG-213         | NA                  | Nov. 07, 2013       | Nov. 06, 2014           |
| Software<br>BV ADT                            | E3<br>6.120103 | NA                  | NA                  | NA                      |
| Antenna Tower<br>MF                           | MFA-440H       | NA                  | NA                  | NA                      |
| Turn Table<br>MF                              | MFT-201SS      | NA                  | NA                  | NA                      |
| Antenna Tower &Turn Table<br>Controller<br>MF | MF-7802        | NA                  | NA                  | NA                      |
| Loop Antenna                                  | HFH2-Z2        | 100070              | Mar. 06, 2014       | Mar. 05, 2016           |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 3. The test was performed in HwaYa Chamber 10.
- 4. The FCC Site Registration No. is 690701.
- 5. The IC Site Registration No. is IC 7450F-10.



#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 antenna is a broadband antenna, and its 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.
- 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 Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### NOTF:

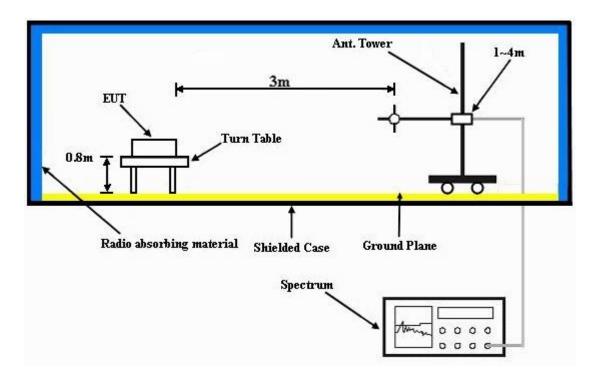
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



#### 4.1.5 TEST SETUP



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

#### 4.1.6 EUT OPERATING CONDITIONS

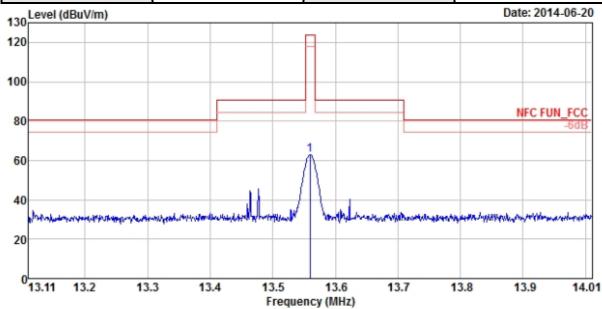
Set the EUT under transmission condition continuously at specific channel frequency.

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#### 4.1.7 TEST RESULTS

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL   |                  |
|--------------------------|-----------------|----------------------|------------------|
| CHANNEL                  | Channel 1       | FREQUENCY RANGE      | 13.11 ~ 14.01MHz |
| INPUT POWER              | 120Vac, 60Hz    | DETECTOR<br>FUNCTION | Peak (PK)        |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY            | Anson Lin        |



| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M |                               |                         |                   |                |                                |                           |                            |        |  |
|---|-------------------------------|-------------------------|-------------------|----------------|--------------------------------|---------------------------|----------------------------|--------|--|
| FREQ.<br>(MHz)  | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | Correction<br>Factor<br>(dB/m) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |  |
| 13.56   | 63.02                         | 43.31                   | 124               | -60.98         | 19.71                          | 100                       | 22                         | Peak   |  |

#### **REMARKS:**

- 1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance) Example:

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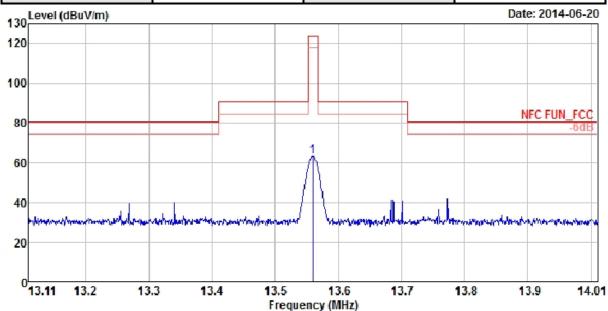
13.56MHz = 15848uV/m 30m

= 84dBuV/m 30m =  $84+20log(30/3)^2$  3m

= 124dBuV/m



| <b>EUT TEST CONDITION</b> |                 | MEASUREMENT DETAIL   |                  |  |  |
|---------------------------|-----------------|----------------------|------------------|--|--|
| CHANNEL Channel 1         |                 | FREQUENCY RANGE      | 13.11 ~ 14.01MHz |  |  |
| INPUT POWER               | 120Vac, 60Hz    | DETECTOR<br>FUNCTION | Peak (PK)        |  |  |
| ENVIRONMENTAL CONDITIONS  | 25deg. C, 65%RH | TESTED BY            | Anson Lin        |  |  |



| l | ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M |                               |                         |                   |                |                                |                           |                            |        |  |
|---|--|-------------------------------|-------------------------|-------------------|----------------|--------------------------------|---------------------------|----------------------------|--------|--|
|   | FREQ.<br>(MHz)   | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | Correction<br>Factor<br>(dB/m) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |  |
|   | 13.56  | 63.23                         | 43.52                   | 124               | -60.77         | 19.71                          | 100                       | 309                        | Peak   |  |

- 1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance) Example:

13.56MHz = 15848uV/m

30m 30m

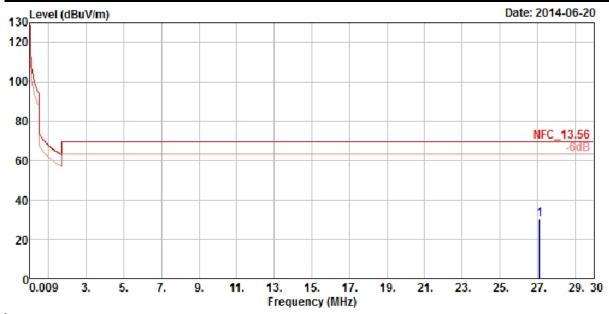
= 84dBuV/m

 $= 84+20\log(30/3)^2$ = 124dBuV/m

3m



| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL   |             |  |  |
|--------------------------|-----------------|----------------------|-------------|--|--|
| CHANNEL Channel 1        |                 | FREQUENCY RANGE      | Below 30MHz |  |  |
| INPUT POWER              | 120Vac, 60Hz    | DETECTOR<br>FUNCTION | Peak (PK)   |  |  |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY            | Anson Lin   |  |  |

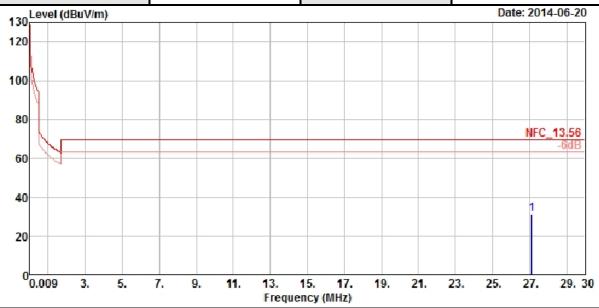


| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M |                               |                         |                   |                |                                |                           |                            |        |  |
|---|-------------------------------|-------------------------|-------------------|----------------|--------------------------------|---------------------------|----------------------------|--------|--|
| FREQ.<br>(MHz)  | EMISSION<br>LEVEL<br>(dBuV/m) | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | Correction<br>Factor<br>(dB/m) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |  |
| 27.12   | 30.05                         | 9.96                    | 69.54             | -39.49         | 20.09                          | 100                       | 0                          | Peak   |  |

- 1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL   |             |  |  |
|--------------------------|-----------------|----------------------|-------------|--|--|
| CHANNEL Channel 1        |                 | FREQUENCY RANGE      | Below 30MHz |  |  |
| INPUT POWER              | 120Vac, 60Hz    | DETECTOR<br>FUNCTION | Peak (PK)   |  |  |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY            | Anson Lin   |  |  |



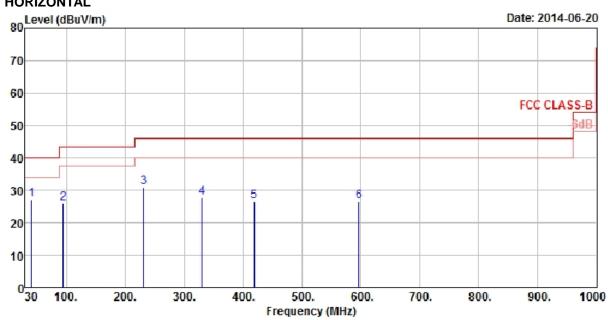
|                | ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M |                         |                   |                |                                |                           |                            |        |  |  |
|----------------|--|-------------------------|-------------------|----------------|--------------------------------|---------------------------|----------------------------|--------|--|--|
| FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m)                              | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | Correction<br>Factor<br>(dB/m) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |  |  |
| 27.12          | 31.07  | 10.98                   | 69.54             | -38.47         | 20.09                          | 100                       | 135                        | Peak   |  |  |

- 1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.

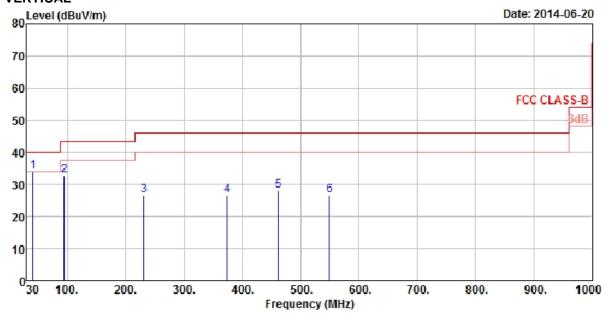


| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL   |                              |  |  |
|--------------------------|-----------------|----------------------|------------------------------|--|--|
| CHANNEL Channel 1        |                 | FREQUENCY RANGE      | 30MHz ~ 1GHz                 |  |  |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR<br>FUNCTION | Peak (PK)<br>Quasi-peak (QP) |  |  |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY            | Anson Lin                    |  |  |

#### **HORIZONTAL**



#### **VERTICAL**





|                | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                         |                   |                |                             |                       |                          |                           |                            |        |
|----------------|---|-------------------------|-------------------|----------------|-----------------------------|-----------------------|--------------------------|---------------------------|----------------------------|--------|
| FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m)                       | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB/m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 40.8           | 27.05   | 43.85                   | 40                | -12.95         | 13.55                       | 0.67                  | 31.02                    | 125                       | 169                        | Peak   |
| 94.8           | 25.84   | 48.08                   | 43.5              | -17.66         | 8.68                        | 1.04                  | 31.96                    | 104                       | 315                        | Peak   |
| 230.61         | 31.07   | 50.52                   | 46                | -14.93         | 10.66                       | 1.74                  | 31.85                    | 126                       | 3                          | Peak   |
| 330.1          | 27.7  | 43.69                   | 46                | -18.3          | 13.66                       | 2.16                  | 31.81                    | 127                       | 177                        | Peak   |
| 418.3          | 26.52   | 40.37                   | 46                | -19.48         | 15.7                        | 2.49                  | 32.04                    | 122                       | 261                        | Peak   |
| 596.8          | 26.69   | 36.3                    | 46                | -19.31         | 19.52                       | 3.08                  | 32.21                    | 100                       | 18                         | Peak   |
|                | Α   | NTENN                   | A POLAR           | ITY & TE       | ST DISTA                    | NCE: V                | ERTICAL                  | AT 3 M                    | -                          |        |
| FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m)                       | READ<br>LEVEL<br>(dBuV) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>FACTOR<br>(dB/m) | CABLE<br>LOSS<br>(dB) | PREAMP<br>FACTOR<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | REMARK |
| 40.53          | 33.96   | 50.76                   | 40                | -6.04          | 13.55                       | 0.67                  | 31.02                    | 100                       | 140                        | Peak   |
| 94.8           | 32.87   | 55.11                   | 43.5              | -10.63         | 8.68                        | 1.04                  | 31.96                    | 131                       | 75                         | Peak   |
| 230.61         | 26.51   | 45.96                   | 46                | -19.49         | 10.66                       | 1.74                  | 31.85                    | 101                       | 96                         | Peak   |
| 374.2          | 26.63   | 41.51                   | 46                | -19.37         | 14.73                       | 2.32                  | 31.93                    | 138                       | 182                        | Peak   |
| 461.7          | 28.15   | 40.91                   | 46                | -17.85         | 16.56                       | 2.65                  | 31.97                    | 122                       | 148                        | Peak   |
| 549.9          | 26.42   | 36.96                   | 46                | -19.58         | 18.46                       | 2.95                  | 31.95                    | 100                       | 230                        | Peak   |

Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
 Margin Value = Emission Level - Limit Value



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| 5. PHOTOGRAPHS OF THE TEST CONFIGURATION               |       |
|  |       |
| Please refer to the attached file (Test Setup Photo).  |       |
| r reads refer to the attached me (rest estap r riets). |       |
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#### 6. INFORMATION ON 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 accredited and approved according to ISO/IEC 17025.

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

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26051924Fax: 886-3-5935342

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

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# 7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

--- END ---