

*FCC PART 15, SUBPART C  
TEST REPORT*

*for*

FM MODULATOR  
M/N: CARPLAY WIRELESS PLUS  
FCC ID: RJE169233-00

Prepared for

EVER WIN INTERNATIONAL CORP.  
9504 TOPANGA CANYON BLVD  
CHATSWORTH, CA 91311

Prepared by: \_\_\_\_\_

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DATE: JANUARY 16, 2007

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## GENERAL REPORT SUMMARY

This electromagnetic emission report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form except in full, without the written permission of Compatible Electronics.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: FM Modulator  
Model Number: Carplay Wireless Plus  
SN: None

Product Description: This is an FM Modulator.

Modifications: The EUT was not modified during the testing.

Manufacturer: Ever Win International Corp.  
9504 Topanga Canyon Blvd  
Chatsworth, CA 91311

Test Date: January 8, 2007

Test Specifications: EMI requirements  
FCC CFR Title 47, Part 15 Subpart A, B and C sections 15.31 (e), 15.109, 15.205, 15.209 and 15.239  
Test Procedure: ANSI C63.4: 2003.

### Industry Canada Lab Code IC2372-F

## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                               | RESULTS   |
|------|---|---|
| 1    | Conducted RF Emissions, 150 kHz - 30 MHz. | This is a DC powered device that does not plug into AC Mains therefore this test was deemed unnecessary.                    |
| 2    | Radiated RF Emissions, 9 kHz – 1079 MHz.  | Complies with the limits of FCC CFR Title 47, Part 15 Subpart C 15.205, 15.209 and 15.239 and the requirements of 15.31(e). |

## 1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the FM Modulator Model Number: Carplay Wireless Plus. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined in FCC CFR Title 47, Part 15 Subpart A (15.31e), Subpart B, 15.109 Subpart C 15.205, 15.209 and 15.239.

## 2. ADMINISTRATIVE DATA

## 2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 2337 Troutdale Drive, Agoura, California 91301.

## 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

## 2.3 Cognizant Personnel

Ever Win International Corp.

Alex Samson R & D Engineer

Compatible Electronics Inc.

Reynald O. Ramirez      Sr. Test Engineer  
Ruby A. Hall      Lab Manager

## 2.4 Date Test Sample was Received

The test sample was received on January 8, 2007.

## 2.5 Disposition of the Test Sample

The test sample remains at Compatible Electronics Inc.

## 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

|      |                                      |
|------|--------------------------------------|
| RF   | Radio Frequency                      |
| EMI  | Electromagnetic Interference         |
| EUT  | Equipment Under Test                 |
| P/N  | Part Number                          |
| S/N  | Serial Number                        |
| HP   | Hewlett Packard                      |
| ITE  | Information Technology Equipment     |
| CML  | Corrected Meter Limit                |
| LISN | Line Impedance Stabilization Network |

### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

| SPEC                                     | TITLE   |
|--|---|
| FCC CFR Title 47, Subpart C<br>Subpart B | FCC Rules – Intentional Radiators.<br>FCC Rules - Unintentional Radiators   |
| Subpart A                                | General   |
| CISPR 16<br>1993                         | Specification for radio disturbance and immunity measuring apparatus and methods.   |
| ANSI C63.4<br>2003                       | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz. |

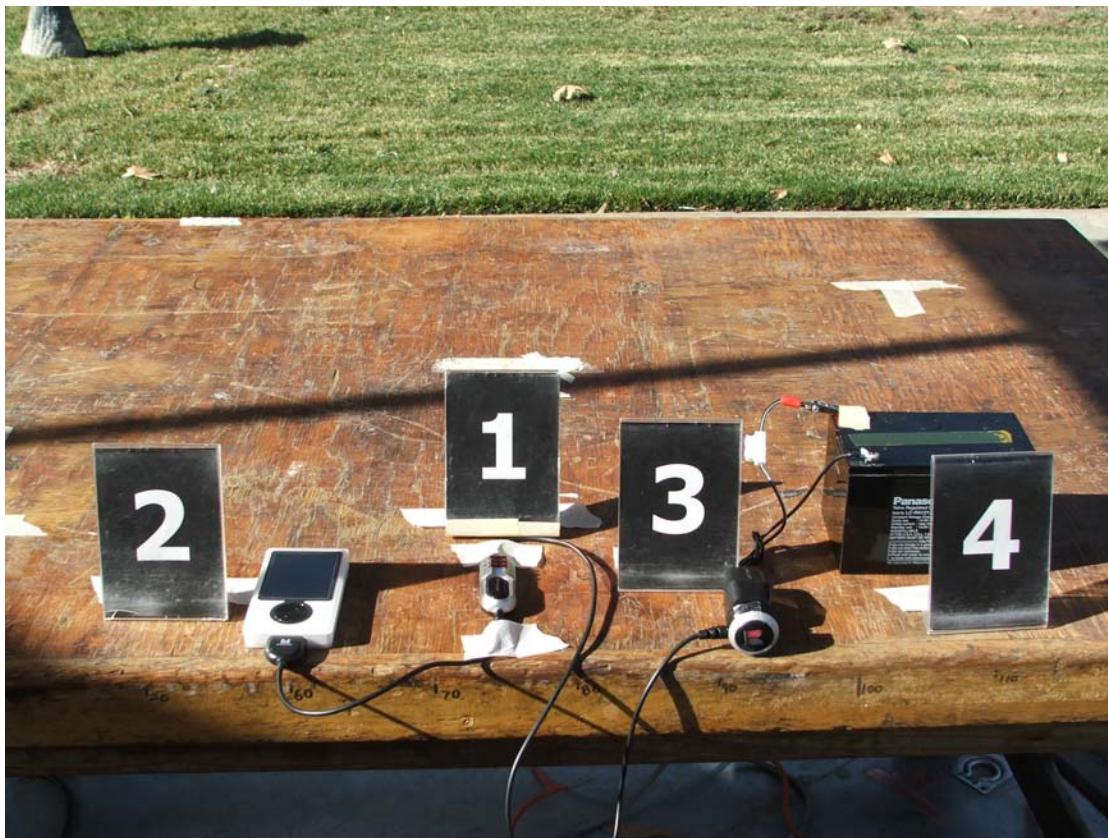
## 4. DESCRIPTION OF TEST CONFIGURATION

### 4.1 Description of Test Configuration - EMI

The EUT was set-up in a tabletop configuration. The EUT was connected to a Zune MP3 Player via the dock connector port. The input connector of the EUT allows the audio device, a Zune MP3 Player in this case, to be charged by the vehicle battery while connected. The volume on the Zune MP3 Player was set at its maximum level. The EUT was continuously transmitting in this mode throughout the test. The output was monitored through a receiver which was located with the EUT. The EUT transmitting antenna is a fixed element; which connects directly to the PCB board.

The highest emissions were found when the EUT was running in the above configuration. The EUT was tested in X, Y and Z axis even though it is intended for use in a dashboard mounted cigarette lighter port. The cables were moved to maximize the emissions. The final radiated data was taken in this mode of operation. All initial investigations were performed with the spectrum analyzer in manual mode scanning the frequency range continuously. The cables were routed as shown in the photographs in Appendix D.

#### 4.1.1 Photograph of Test Configuration - EMI



#### **4.1.2 Cable Construction and Termination**

##### **Cable 1**

This is a 40 cm unshielded round cable that connects the EUT to the Zune. The cable has a Car accessory port, power adapter at one end and has a 25 pin inline locking connector at the Zune end. The EUT is hardwired in the middle of the cable.

**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT****5.1 EUT and Accessory List**

| # | EQUIPMENT TYPE                      | MANUFACTURER                       | MODEL                    | SERIAL NUMBER                     |
|---|-------------------------------------|------------------------------------|--------------------------|-----------------------------------|
| 1 | FM MODULATOR (EUT)                  | EVER WIN<br>INTERNATIONAL<br>CORP. | CARPLAY<br>WIRELESS PLUS | S/N: NONE<br>FCC ID: RJE169233-00 |
| 2 | MP3 PLAYER                          | ZUNE                               | 1090                     | S/N: 057750464110                 |
| 3 | CAR ACCESSORY PORT<br>POWER ADAPTER | EVER WIN<br>INTERNATIONAL<br>CORP. | NONE                     | NONE                              |
| 4 | BATTERY                             | PANASONIC                          | LC-RA1212P1              | NONE                              |

## 5.2 EMI Test Equipment

| EQUIPMENT TYPE                   | MANUFACTURER           | MODEL NUMBER  | SERIAL NUMBER | CAL. DATE     | CAL. DUE DATE |
|----------------------------------|------------------------|---------------|---------------|---------------|---------------|
| Spectrum Analyzer                | Hewlett Packard        | 8566B         | 3638A08784    | May 26, 2006  | May 26, 2007  |
| Quasi-Peak Adapter               | Hewlett Packard        | 85650A        | 2430A00424    | May 26, 2006  | May 26, 2007  |
| Preamplifier                     | Com Power              | PA-103        | 1619          | Dec. 27, 2006 | Dec. 27, 2007 |
| Microwave Amplifier              | Com-Power              | PA-122        | 181915        | Mar. 22, 2006 | Mar. 22, 2007 |
| Loop Antenna                     | Com Power              | AL-130        | 17067         | Aug. 1, 2006  | Aug. 1, 2007  |
| Biconical Antenna                | Com Power              | AB-900        | 15283         | Dec. 28, 2006 | Dec. 28, 2007 |
| Log Periodic Antenna             | Com Power              | AL-100        | 16200         | Dec. 28, 2006 | Dec. 28, 2007 |
| Horn Antenna                     | A.R.A.                 | DRG-118       | 1015          | July 26, 2006 | July 26, 2008 |
| Antenna Mast                     | Com Power              | AM-400        | N/A           | N/A           | N/A           |
| Turntable                        | Com Power              | TTW-595       | N/A           | N/A           | N/A           |
| Computer                         | Hewlett Packard        | Pavilion 4530 | US91912022    | N/A           | N/A           |
| Printer                          | Hewlett Packard        | C6427B        | MY066160TW    | N/A           | N/A           |
| Radiated Emissions Test Software | Compatible Electronics | Vcap1A        | 2.3           | N/A           | N/A           |

## **6. TEST SITE DESCRIPTION**

### **6.1 Test Facility Description**

Please refer to section 2.1 and 7.1.2 of this report for EMI test location.

### **6.2 EUT Mounting, Bonding and Grounding**

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

## 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

### 7.1 RF Emissions

#### 7.1.1 Conducted Emissions Test

The EUT is DC powered and does not connect to AC Mains therefore this test was deemed unnecessary.

The Spectrum Analyzer was used as a measuring meter along with the quasi-peak adapter. The data was collected with the Spectrum Analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the Spectrum Analyzer input stage, and the Spectrum Analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the Spectrum Analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 150 kHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

### 7.1.2 Radiated Emissions Test

The spectrum analyzer was used as a measuring meter along with a quasi-peak adapter. A Preamplifier was used to increase the sensitivity of the instrument. The Spectrum Analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. This final reading is then recorded into the a Computer data recording program, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. The quasi-peak was used only for those readings, which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was according to the frequency measured (200 Hz for 9kHz-150kHz, 9 kHz for 0.150kHz-30MHz and 120 kHz for 30-1000 MHz and 1 MHz for 1 GHz and above).

Broadband loop, biconical, log periodic and horn antennas were used as transducers during the measurement. The loop antenna was used from 9 kHz to 30 MHz, the biconical antenna was used from 30 MHz to 300 MHz, the log periodic antenna was used from 300 MHz to 1000 MHz and the horn antenna was used above 1 GHz. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

In the frequency range of 9kHz to 30MHz, a calibrated loop antenna was used and positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The loop antenna was also positioned horizontally at the specified distance from the EUT. The center of the loop shall be 1 m above the ground.

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a test distance of 3 meters to obtain final test data. The final test data is located in Appendix E.

### 7.1.3 RF Emissions Test Results

**The fundamental and up to the 10<sup>th</sup> harmonic emissions are within the specifications.**

EVER WIN INTERNATIONAL CORP.  
FM Modulator

#### **RADIATED EMISSIONS – SPURIOUS**

The Frequency Band from 9 kHz to 1 GHz was specifically scanned. Please see data in Appendix E.

#### **RADIATED EMISSION – BAND EDGE 15.239 (a)**

The emission from the intentional radiator are confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band lies wholly within the frequency range of 88-108 MHz. See Appendix E for the plots.

### 7.1.4 Sample Calculations

A correction factor for the antenna, cable and a distance factor (if any) must be applied to the meter reading before a true field strength reading can be obtained. This Corrected Meter Reading is then compared to the specification limit in order to determine compliance with the limits.

The equation can be derived in the following manner:

Specification limit ( $\mu$ V/m)  $\log x 20$  = Specification Limit in dBuV

(Specification distance / test distance)  $\log x 40$  = distance factor

Note: When using an Active Antenna, the Antenna factor shall be subtracted due to the combination of the internal amplification and antenna loss. At lower frequencies the cable loss is negligible.

OR

Corrected Meter Reading = meter reading + F - A + C

where:      F = antenna factor  
                 A = amplifier gain  
                 C = cable loss

The correction factors for the antenna and the amplifier gain are attached in Appendix D of this report. The data sheets are attached in Appendix E.

The distance factor D is 0 when the test is performed at the required specification distance.

### Average Measurements

The frequencies that were averaged were done manually by narrowing the video filter down to 10 Hz and setting the sweep time to AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

**8. TEST PROCEDURE DEVIATIONS**

There were no deviations from the test procedures.

**9. CONCLUSIONS**

The FM Modulator Model Number: Carplay Wireless Plus meets all of the requirements of the FCC CFR, Title 47, Part 15 Subpart A, Section 15.31(e), Subpart B 15.109, Subpart C 15.205, 15.207, 15.209 and 15.239.

**APPENDIX A*****LABORATORY ACCREDITATIONS***

## LABORATORY ACCREDITATIONS AND RECOGNITIONS



For US, Canada, Australia/New Zealand, Taiwan and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025 an ISO 9002 equivalent. Please follow the link to the NIST site for each of our facilities NVLAP certificate and scope of accreditation.

Silverado/Lake Forest Division: <http://ts.nist.gov/ts/htdocs/210/214/scopes/2005270.htm>

Brea Division: <http://ts.nist.gov/ts/htdocs/210/214/scopes/2005280.htm>

Agoura Division: <http://ts.nist.gov/ts/htdocs/210/214/scopes/2000630.htm>



Compatible Electronics has been accredited by ANSI and appointed by the FCC to serve as a Telecommunications Certification Body (TCB). Compatible Electronics ANSI TCB listing can be found at: [http://www.ansi.org/public/ca/ansi\\_cp.html](http://www.ansi.org/public/ca/ansi_cp.html)



Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA). Compatible Electronics NIST US/EU CAB listing can be found at: <http://ts.nist.gov/ts/htdocs/210/gsig/emc-cabs-mar02.pdf>



Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA). Compatible Electronics NIST US/APEC CAB listing can be found at: <http://ts.nist.gov/ts/htdocs/210/gsig/apec/bsmi-cabs-may02.pdf>



Compatible Electronics has been validated by NEMKO against ISO/IEC 17025 under the NEMKO EMC Laboratory Authorization (ELA) program to all EN standards required by the European Union (EU) EMC Directive 89/336/EEC. Please follow the link to the Compatible Electronics' web site for each of our facilities NEMKO ELA certificate and scope of accreditation. <http://www.celectronics.com/certs.htm>

We are also certified/listed for IT products by the following country/agency:



Compatible Electronics VCCI listing can be found at:  
[http://www.vcci.or.jp/vcci\\_e/member/tekigo/setsubi\\_index\\_id.html](http://www.vcci.or.jp/vcci_e/member/tekigo/setsubi_index_id.html)

Just type "Compatible Electronics" into the Keyword search box.



Compatible Electronics FCC listing can be found at:  
[https://gullfoss2.fcc.gov/prod/oet/index\\_ie.html](https://gullfoss2.fcc.gov/prod/oet/index_ie.html)

Just type "Compatible Electronics" into the Test Firms search box.



Compatible Electronics IC listing can be found at:  
[http://spectrum.ic.gc.ca/~cert/labs/oats\\_lab\\_c\\_e.html](http://spectrum.ic.gc.ca/~cert/labs/oats_lab_c_e.html)

**APPENDIX B*****MODIFICATIONS TO THE EUT***

## MODIFICATIONS TO THE EUT

There were no modifications made to the EUT during the test.

**APPENDIX C*****ADDITIONAL MODELS COVERED  
UNDER THIS REPORT***

## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

USED FOR THE PRIMARY TEST

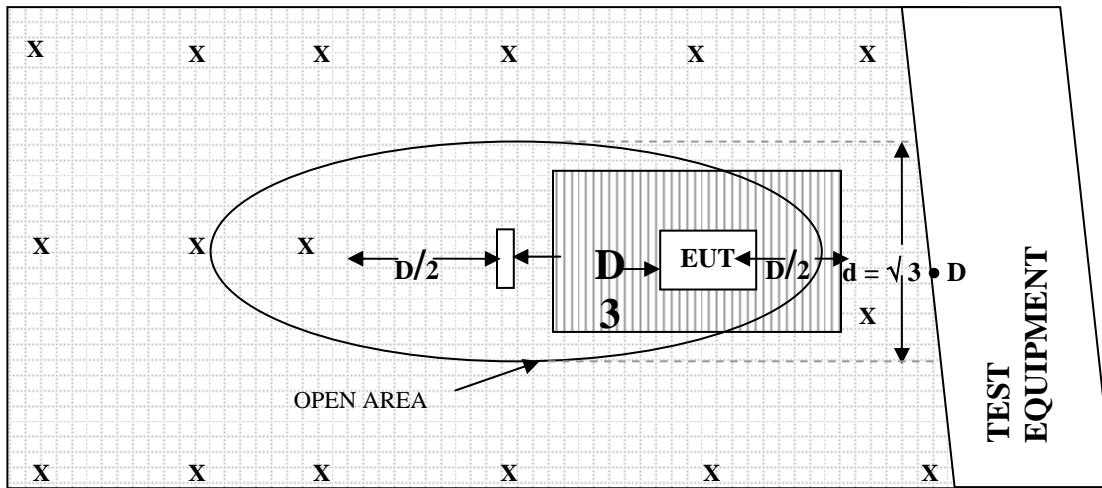
FM MODULATOR  
M/N: CARPLAY WIRELESS PLUS  
S/N: NONE

There were no additional models covered under this report.

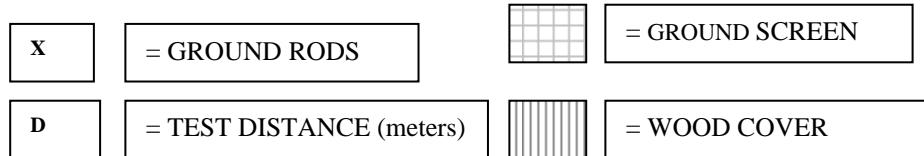
**APPENDIX D*****DIAGRAMS, CHARTS AND PHOTOS***

**FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE**

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS



**COM-POWER AL-130**

**ACTIVE LOOP ANTENNA**

**S/N: 17067**

**CALIBRATION DATE: AUGUST 1, 2006**

| <b>FREQUENCY (MHz)</b> | <b>FACTOR (dB)</b> | <b>FREQUENCY (MHz)</b> | <b>FACTOR (dB)</b> |
|------------------------|--------------------|------------------------|--------------------|
| 0.009                  | 11.8               | 1                      | 11.0               |
| 0.01                   | 11.2               | 2                      | 11.4               |
| 0.02                   | 10.5               | 3                      | 11.2               |
| 0.03                   | 12.2               | 4                      | 11.1               |
| 0.04                   | 11.6               | 5                      | 11.7               |
| 0.05                   | 10.3               | 6                      | 11.7               |
| 0.06                   | 10.7               | 7                      | 11.3               |
| 0.07                   | 10.5               | 8                      | 11.3               |
| 0.08                   | 10.4               | 9                      | 11.6               |
| 0.09                   | 10.7               | 10                     | 11.3               |
| 0.1                    | 10.7               | 15                     | 10.2               |
| 0.2                    | 7.9                | 20                     | 10.4               |
| 0.3                    | 10.4               | 25                     | 9.8                |
| 0.4                    | 10.4               | 30                     | 10.4               |
| 0.5                    | 10.4               |                        |                    |
| 0.6                    | 11.0               |                        |                    |
| 0.7                    | 10.8               |                        |                    |
| 0.8                    | 10.6               |                        |                    |
| 0.9                    | 10.7               |                        |                    |

**COM-POWER AB-900**

**BICONICAL ANTENNA**

**S/N: 15283**

**CALIBRATION DATE: DEC. 28, 2006**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 11.21                  | 120                        | 13.42                  |
| 35                         | 8.45                   | 125                        | 14.16                  |
| 40                         | 11.54                  | 140                        | 14.21                  |
| 45                         | 12.75                  | 150                        | 14.06                  |
| 50                         | 9.69                   | 160                        | 14.31                  |
| 55                         | 10.24                  | 175                        | 14.51                  |
| 60                         | 10.27                  | 180                        | 15.19                  |
| 65                         | 9.86                   | 200                        | 16.51                  |
| 70                         | 7.96                   | 225                        | 14.84                  |
| 80                         | 9.72                   | 250                        | 16.72                  |
| 90                         | 10.69                  | 275                        | 20.75                  |
| 100                        | 13.23                  | 300                        | 17.82                  |

**COM-POWER AL-100**

**LOG PERIODIC ANTENNA**

**S/N: 16200**

**CALIBRATION DATE: DEC. 28, 2006**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 300                        | 12.73                  | 650                        | 21.56                  |
| 330                        | 12.92                  | 700                        | 20.03                  |
| 340                        | 13.56                  | 725                        | 21.93                  |
| 350                        | 13.87                  | 750                        | 21.80                  |
| 360                        | 14.40                  | 800                        | 20.08                  |
| 370                        | 13.39                  | 850                        | 23.25                  |
| 400                        | 14.50                  | 900                        | 24.72                  |
| 425                        | 16.39                  | 925                        | 25.23                  |
| 450                        | 18.87                  | 950                        | 25.13                  |
| 500                        | 21.36                  | 975                        | 26.01                  |
| 550                        | 22.81                  | 1000                       | 25.25                  |
| 600                        | 23.77                  |                            |                        |

**DRG-118/A****DOUBLE RIDGE HORN ANTENNA****S/N: 1015****CALIBRATION DATE: JULY 26, 2006**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1000                       | 24.6                   | 10000                      | 39.2                   |
| 1500                       | 25.4                   | 10500                      | 40.2                   |
| 2000                       | 27.9                   | 11000                      | 39.4                   |
| 2500                       | 28.6                   | 11500                      | 40.0                   |
| 3000                       | 30.1                   | 12000                      | 40.7                   |
| 3500                       | 30.7                   | 12500                      | 40.6                   |
| 4000                       | 30.8                   | 13000                      | 40.0                   |
| 4500                       | 31.6                   | 13500                      | 41.1                   |
| 5000                       | 33.5                   | 14000                      | 42.7                   |
| 5500                       | 33.6                   | 14500                      | 43.1                   |
| 6000                       | 34.1                   | 15000                      | 41.9                   |
| 6500                       | 35.1                   | 15500                      | 38.8                   |
| 7000                       | 37.4                   | 16000                      | 39.6                   |
| 7500                       | 39.5                   | 16500                      | 39.0                   |
| 8000                       | 38.2                   | 17000                      | 41.6                   |
| 8500                       | 37.5                   | 17500                      | 43.5                   |
| 9000                       | 38.0                   | 18000                      | 45.5                   |
| 9500                       | 38.6                   |                            |                        |

**COM-POWER PA-103****PREAMPLIFIER****S/N: 1619****CALIBRATION DATE: DEC. 27, 2006**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 30.0                   | 300                        | 29.2                   |
| 40                         | 30.4                   | 350                        | 29.1                   |
| 50                         | 30.2                   | 400                        | 28.9                   |
| 60                         | 30.3                   | 450                        | 28.7                   |
| 70                         | 29.6                   | 500                        | 29.4                   |
| 80                         | 30.3                   | 550                        | 28.3                   |
| 90                         | 29.8                   | 600                        | 28.4                   |
| 100                        | 30.2                   | 650                        | 28.3                   |
| 125                        | 30.4                   | 700                        | 28.7                   |
| 150                        | 30.2                   | 750                        | 27.6                   |
| 175                        | 30.5                   | 800                        | 28.0                   |
| 200                        | 29.5                   | 850                        | 26.8                   |
| 225                        | 28.7                   | 900                        | 26.8                   |
| 250                        | 28.6                   | 950                        | 26.4                   |
| 275                        | 28.3                   | 1000                       | 26.8                   |

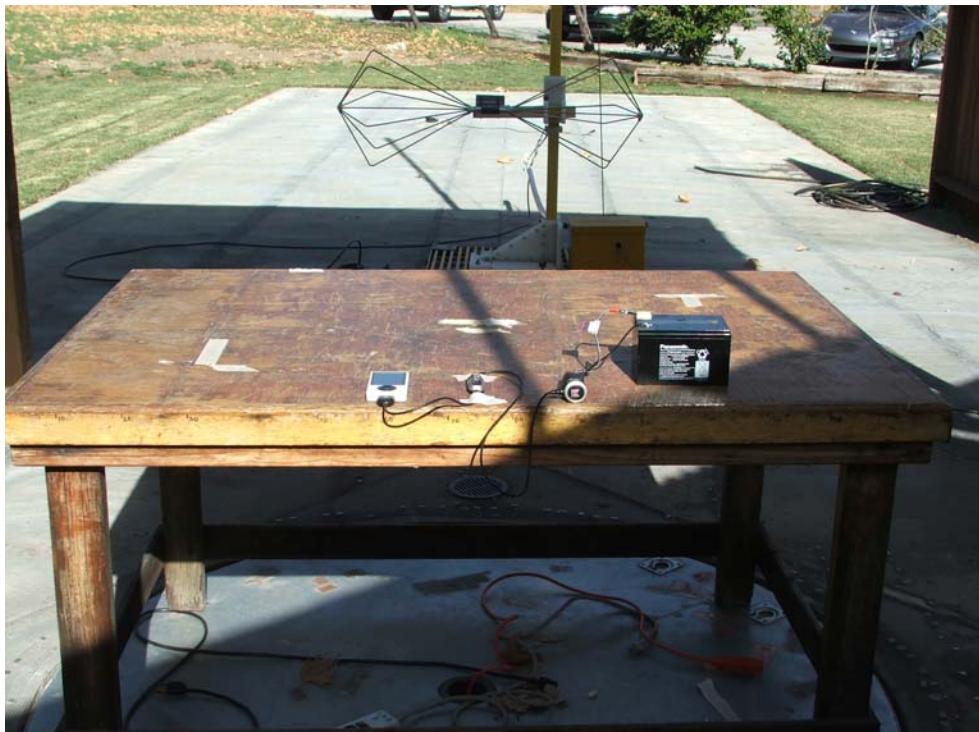
**COM-POWER PA-122****PREAMPLIFIER****S/N: 181915****CALIBRATION DATE: MARCH 22, 2006**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1000                       | 31.9                   | 7000                       | 27.5                   |
| 1100                       | 31.7                   | 7500                       | 29.1                   |
| 1200                       | 31.5                   | 8000                       | 29.6                   |
| 1300                       | 31.5                   | 8500                       | 28.6                   |
| 1400                       | 31.3                   | 9000                       | 25.2                   |
| 1500                       | 31.5                   | 9500                       | 28.8                   |
| 1600                       | 31.1                   | 10000                      | 25.6                   |
| 1700                       | 31.3                   | 11000                      | 21.7                   |
| 1800                       | 31.3                   | 12000                      | 28.2                   |
| 1900                       | 31.7                   | 13000                      | 27.2                   |
| 2000                       | 31.0                   | 14000                      | 27.2                   |
| 2500                       | 30.6                   | 15000                      | 25.3                   |
| 3000                       | 30.8                   | 16000                      | 23.3                   |
| 3500                       | 31.1                   | 17000                      | 24.4                   |
| 4000                       | 29.3                   | 18000                      | 28.5                   |
| 4500                       | 30.8                   |                            |                        |
| 5000                       | 30.2                   |                            |                        |
| 5500                       | 30.4                   |                            |                        |
| 6000                       | 29.1                   |                            |                        |
| 6500                       | 28.6                   |                            |                        |

**FRONT VIEW**

EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**REAR VIEW**

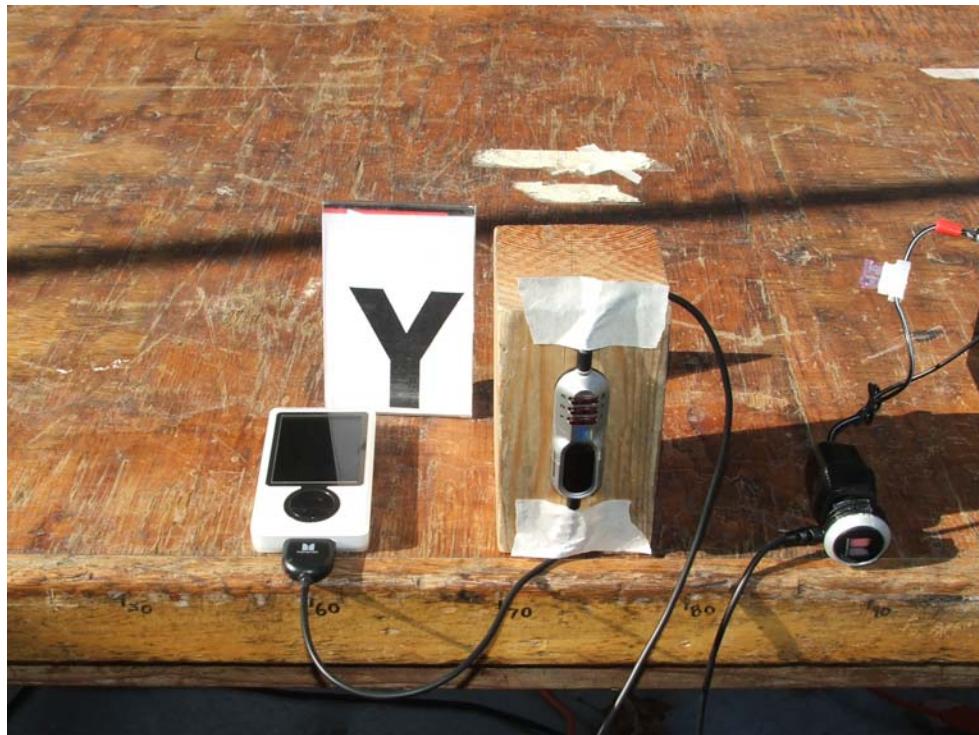
EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**X AXIS**

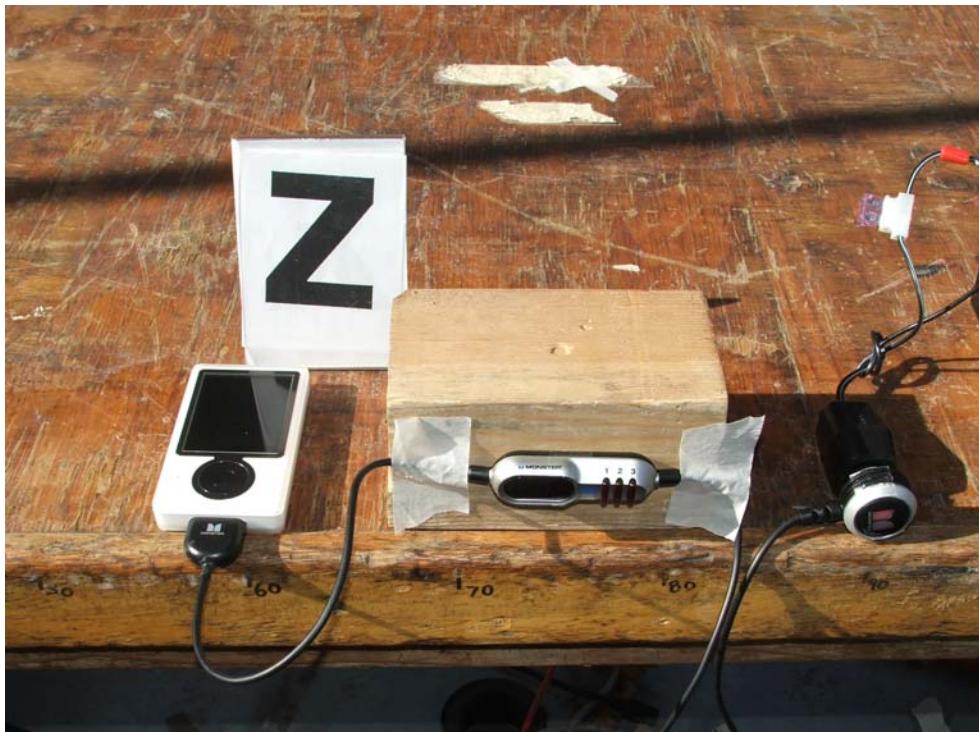
EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION**

**Y AXIS**

EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

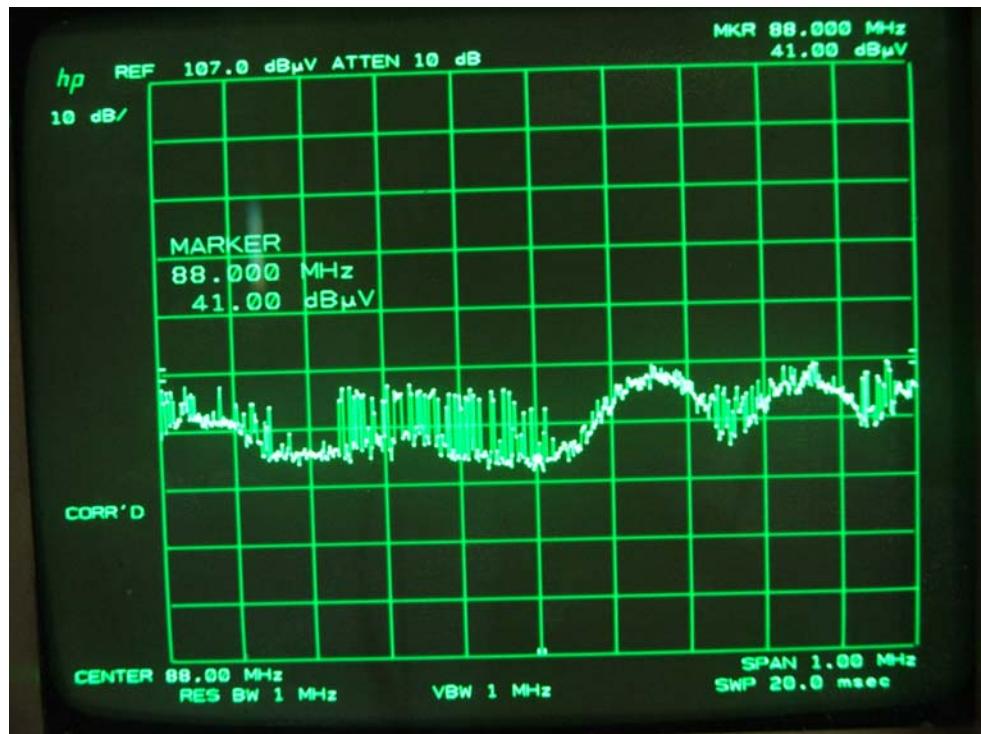
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION**

**Z AXIS**

EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

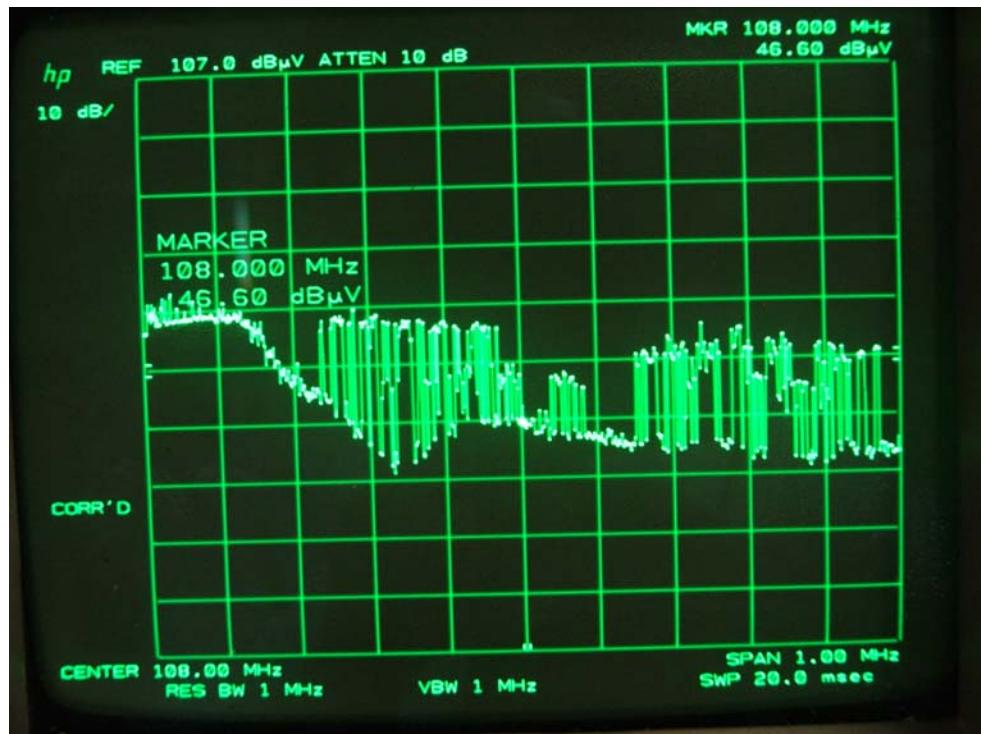
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION**

**APPENDIX E*****DATA SHEETS***



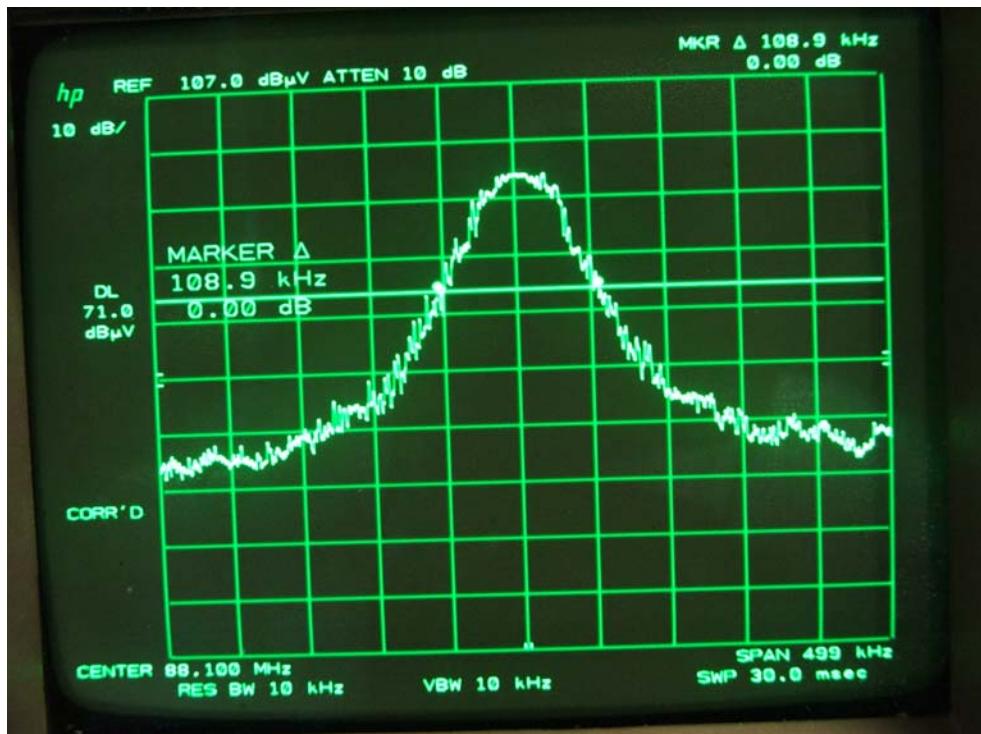
EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C – BAND EDGE 88 MHz

**PHOTOGRAPH SHOWING THE LOWER BAND EDGE**



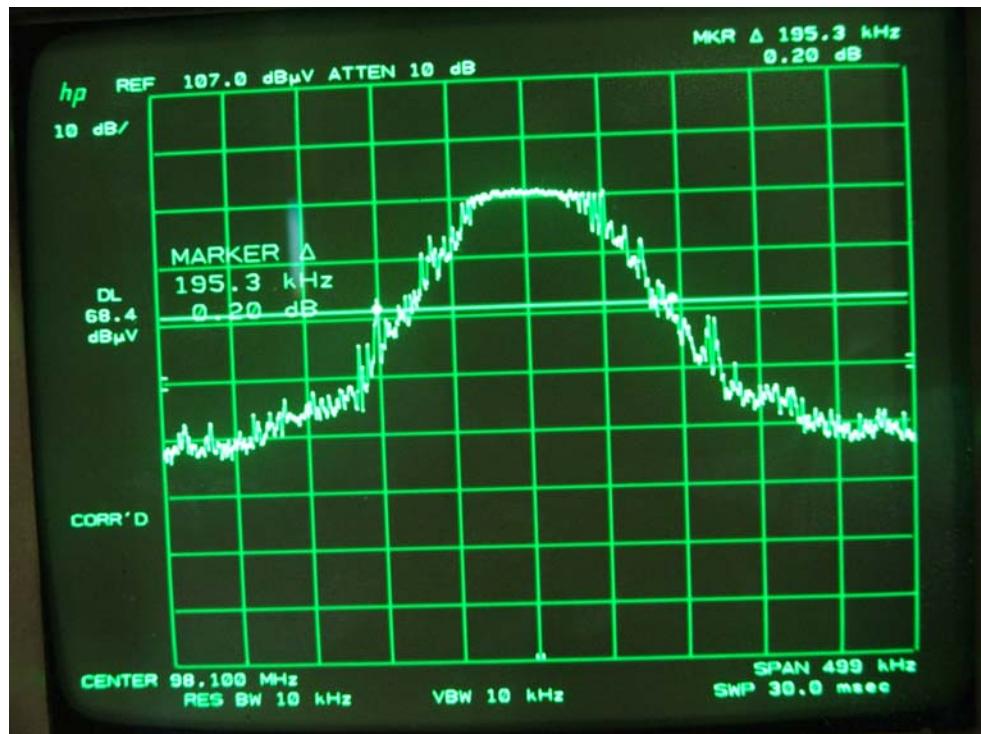
EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C – BAND EDGE 108 MHz

**PHOTOGRAPH SHOWING THE UPPER BAND EDGE**



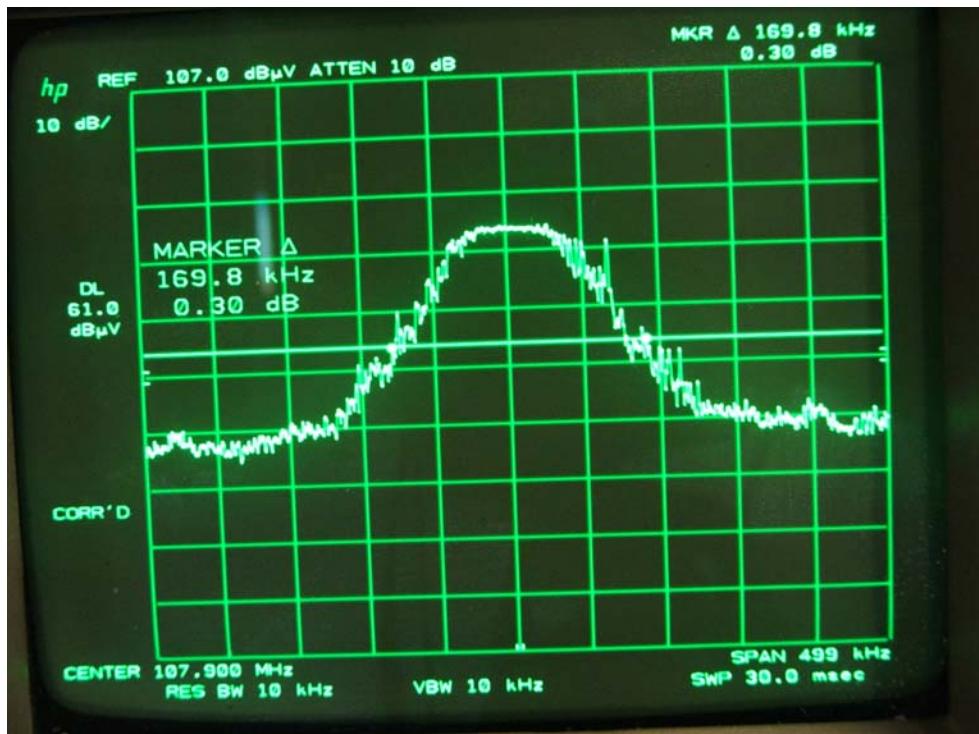
EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C – 15.239 (a)

**PHOTOGRAPH SHOWING THE LOW CHANNEL  
88.1 MHz 108.9 kHz**



EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C – 15.239 (a)

**PHOTOGRAPH SHOWING THE MID CHANNEL  
98.1 MHz 195.3 kHz**



EVER WIN INTERNATIONAL CORP.  
FM MODULATOR  
MODEL: CARPLAY WIRELESS PLUS  
FCC PART 15 SUBPART C – 15.239 (a)

**PHOTOGRAPH SHOWING THE UPPER CHANNEL  
107.9 MHz 169.8 kHz**

# **COMPATIBLE ELECTRONICS**

Test Location : Compatible Electronics Page : 1/1  
Customer : Alex Samson Date : 01/08/2007  
Manufacturer : Everwin International Time : 11:27:51 AM  
Eut name : FM Modulator Lab : F  
Model : Cardisplay Wireless Plus Test Distance : 3.00 Meters  
Serial # : N/A  
Specification : FCC Pt. 15- Class B  
Distance correction factor (20 \* log(test/spec)) : 0.00  
Test Mode : Band Edge Measurements 88-108  
Test Engineer: R. Ramirez

| Pol | Freq<br>MHz | Reading<br>dBuV | Cable<br>loss<br>dB | Antenna<br>factor<br>dB | Amplifier<br>gain<br>dB | Corr'd<br>rdg = R<br>dBuV/m | Limit<br>= L<br>dBuV/m | Delta<br>R-L<br>dB |
|-----|-------------|-----------------|---------------------|-------------------------|-------------------------|-----------------------------|------------------------|--------------------|
| 1V  | 88.000      | 41.00           | 2.98                | 10.50                   | 29.90                   | 24.59                       | 40.00                  | -15.41             |
| 2V  | 108.000     | 46.60           | 3.13                | 13.31                   | 30.27                   | 32.78                       | 43.50                  | -10.72             |

## RADIATED EMISSIONS

COMPANY NAME: Everwin International | DATE: 1/8/07

EUT: FM Mawlaor

EUT S/N: 2/A

EUT MODEL: Carddisplay Wireless P46 LOCATION:  BREA  SILVERADO  AGOURA

SPECIFICATION: fire CLASS: B TEST DISTANCE: 3m LAB: F

ANTENNA:  LOOP  BICONICAL  LOG  HORN      POLARIZATION:  VERT  HORIZ

QUALIFICATION  ENGINEERING  MEG. AUDIT ENGINEER: R. Ramire2

## NOTES

Pol. A

Pol. B



\* DELTA = METER READING - CORRECTED LIMIT

## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 88.1000          | 31.9                      | A                                     | H                             | 4.0                           | 0                           | X                      | LOW                  | 10.5                      | 3.0                   | 0.0                       | 0.0                        | 0.0                     | 45.4                              | -2.6                | 48.0                      |          |
| 88.1000          | 30.6                      | A                                     | H                             | 4.0                           | 0                           | Y                      | LOW                  | 10.5                      | 3.0                   | 0.0                       | 0.0                        | 0.0                     | 44.1                              | -3.9                | 48.0                      |          |
| 88.1000          | 30.8                      | A                                     | H                             | 4.0                           | 0                           | Z                      | LOW                  | 10.5                      | 3.0                   | 0.0                       | 0.0                        | 0.0                     | 44.3                              | -3.7                | 48.0                      |          |
| 88.1000          | 31.0                      | A                                     | V                             | 1.0                           | 0                           | X                      | LOW                  | 10.5                      | 3.0                   | 0.0                       | 0.0                        | 0.0                     | 44.5                              | -3.5                | 48.0                      |          |
| 88.1000          | 30.3                      | A                                     | V                             | 1.0                           | 0                           | Y                      | LOW                  | 10.5                      | 3.0                   | 0.0                       | 0.0                        | 0.0                     | 43.8                              | -4.2                | 48.0                      |          |
| 88.1000          | 30.2                      | A                                     | V                             | 1.0                           | 0                           | Z                      | LOW                  | 10.5                      | 3.0                   | 0.0                       | 0.0                        | 0.0                     | 43.7                              | -4.3                | 48.0                      |          |
| 98.1000          | 30.2                      | A                                     | H                             | 4.0                           | 0                           | X                      | MED.                 | 12.7                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.0                              | -2.0                | 48.0                      |          |
| 98.1000          | 30.5                      | A                                     | H                             | 4.0                           | 0                           | Y                      | MED.                 | 12.7                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.3                              | -1.7                | 48.0                      |          |
| 98.1000          | 29.7                      | A                                     | H                             | 4.0                           | 0                           | Z                      | MED.                 | 12.7                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 45.5                              | -2.5                | 48.0                      |          |
| 98.1000          | 30.6                      | A                                     | V                             | 1.0                           | 0                           | X                      | MED.                 | 12.7                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.4                              | -1.6                | 48.0                      |          |
| 98.1000          | 29.8                      | A                                     | V                             | 1.0                           | 0                           | Y                      | MED.                 | 12.7                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 45.6                              | -2.4                | 48.0                      |          |
| 98.1000          | 30.3                      | A                                     | V                             | 1.0                           | 0                           | Z                      | MED.                 | 12.7                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.1                              | -1.9                | 48.0                      |          |
| 107.9000         | 30.5                      | A                                     | H                             | 4.0                           | 0                           | X                      | HIGH                 | 13.3                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.9                              | -1.1                | 48.0                      |          |
| 107.9000         | 29.7                      | A                                     | H                             | 4.0                           | 0                           | Y                      | HIGH                 | 13.3                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.1                              | -1.9                | 48.0                      |          |
| 107.9000         | 30.2                      | A                                     | H                             | 4.0                           | 0                           | Z                      | HIGH                 | 13.3                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.6                              | -1.4                | 48.0                      |          |
| 107.9000         | 29.4                      | A                                     | V                             | 1.0                           | 0                           | X                      | HIGH                 | 13.3                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 45.8                              | -2.2                | 48.0                      |          |
| 107.9000         | 30.5                      | A                                     | V                             | 1.0                           | 0                           | Y                      | HIGH                 | 13.3                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.9                              | -1.1                | 48.0                      |          |
| 107.9000         | 30.4                      | A                                     | V                             | 1.0                           | 0                           | Z                      | HIGH                 | 13.3                      | 3.1                   | 0.0                       | 0.0                        | 0.0                     | 46.8                              | -1.2                | 48.0                      |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments           |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|--------------------|
| 176.2000         | 40.1                      | A                                     | H                             | 2.0                           | 0                           | X                      | LOW                  | 14.7                      | 3.4                   | 30.2                      | 0.0                        | 0.0                     | 28.0                              | -15.5               | 43.5                      |                    |
| 176.2000         | 36.0                      | A                                     | H                             | 2.0                           | 0                           | Y                      | LOW                  | 14.7                      | 3.4                   | 30.2                      | 0.0                        | 0.0                     | 23.9                              | -19.6               | 43.5                      |                    |
| 176.2000         | 38.3                      | A                                     | H                             | 2.0                           | 0                           | Z                      | LOW                  | 14.7                      | 3.4                   | 30.2                      | 0.0                        | 0.0                     | 26.2                              | -17.3               | 43.5                      |                    |
| 176.2000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 14.7                      | 3.4                   | 30.2                      | 0.0                        |                         |                                   |                     | 43.5                      | No frequency found |
| 176.2000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 14.7                      | 3.4                   | 30.2                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |
| 176.2000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 14.7                      | 3.4                   | 30.2                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |
| 196.2000         | 40.5                      | A                                     | H                             | 2.0                           | 0                           | X                      | MED.                 | 16.3                      | 3.9                   | 29.9                      | 0.0                        | 0.0                     | 30.8                              | -12.7               | 43.5                      |                    |
| 196.2000         | 43.2                      | A                                     | H                             | 2.0                           | 0                           | Y                      | MED.                 | 16.3                      | 3.9                   | 29.9                      | 0.0                        | 0.0                     | 33.5                              | -10.0               | 43.5                      |                    |
| 196.2000         | 40.0                      | A                                     | H                             | 2.0                           | 0                           | Z                      | MED.                 | 16.3                      | 3.9                   | 29.9                      | 0.0                        | 0.0                     | 30.3                              | -13.2               | 43.5                      |                    |
| 196.2000         |                           | A                                     | V                             |                               |                             | X                      | MED.                 | 16.3                      | 3.9                   | 29.9                      | 0.0                        |                         |                                   |                     | 43.5                      | No frequency found |
| 196.2000         |                           | A                                     | V                             |                               |                             | Y                      | MED.                 | 16.3                      | 3.9                   | 29.9                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |
| 196.2000         |                           | A                                     | V                             |                               |                             | Z                      | MED.                 | 16.3                      | 3.9                   | 29.9                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |
| 215.8000         |                           | A                                     | H                             |                               |                             | X                      | HIGH                 | 16.6                      | 3.9                   | 29.8                      | 0.0                        |                         |                                   |                     | 43.5                      | No frequency found |
| 215.8000         |                           | A                                     | H                             |                               |                             | Y                      | HIGH                 | 16.6                      | 3.9                   | 29.8                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |
| 215.8000         |                           | A                                     | H                             |                               |                             | Z                      | HIGH                 | 16.6                      | 3.9                   | 29.8                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |
| 215.8000         |                           | A                                     | V                             |                               |                             | X                      | HIGH                 | 16.6                      | 3.9                   | 29.8                      | 0.0                        |                         |                                   |                     | 43.5                      | No frequency found |
| 215.8000         |                           | A                                     | V                             |                               |                             | Y                      | HIGH                 | 16.6                      | 3.9                   | 29.8                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |
| 215.8000         |                           | A                                     | V                             |                               |                             | Z                      | HIGH                 | 16.6                      | 3.9                   | 29.8                      | 0.0                        |                         |                                   |                     | 43.5                      |                    |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 264.3000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 17.0                      | 4.5                   | 30.2                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 264.3000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 17.0                      | 4.5                   | 30.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 264.3000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 17.0                      | 4.5                   | 30.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 264.3000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 17.0                      | 4.5                   | 30.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 264.3000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 17.0                      | 4.5                   | 30.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 264.3000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 17.0                      | 4.5                   | 30.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 294.3000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 17.7                      | 4.5                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 294.3000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 17.7                      | 4.5                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 294.3000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 17.7                      | 4.5                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 294.3000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 17.7                      | 4.5                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 294.3000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 17.7                      | 4.5                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 294.3000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 17.7                      | 4.5                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 323.7000         |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 13.3                      | 4.7                   | 30.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 323.7000         |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 13.3                      | 4.7                   | 30.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 323.7000         |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 13.3                      | 4.7                   | 30.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 323.7000         |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 13.3                      | 4.7                   | 30.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 323.7000         |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 13.3                      | 4.7                   | 30.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 323.7000         |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 13.3                      | 4.7                   | 30.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 352.4000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 13.9                      | 4.8                   | 29.9                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 352.4000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 13.9                      | 4.8                   | 29.9                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 352.4000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 13.9                      | 4.8                   | 29.9                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 352.4000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 13.9                      | 4.8                   | 29.9                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 352.4000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 13.9                      | 4.8                   | 29.9                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 352.4000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 13.9                      | 4.8                   | 29.9                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 392.4000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 14.4                      | 5.2                   | 30.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 392.4000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 14.4                      | 5.2                   | 30.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 392.4000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 14.4                      | 5.2                   | 30.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 392.4000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 14.4                      | 5.2                   | 30.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 392.4000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 14.4                      | 5.2                   | 30.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 392.4000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 14.4                      | 5.2                   | 30.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 431.6000         |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 17.3                      | 5.7                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 431.6000         |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 17.3                      | 5.7                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 431.6000         |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 17.3                      | 5.7                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 431.6000         |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 17.3                      | 5.7                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 431.6000         |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 17.3                      | 5.7                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 431.6000         |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 17.3                      | 5.7                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 440.5000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 18.0                      | 5.9                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 440.5000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 18.0                      | 5.9                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 440.5000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 18.0                      | 5.9                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 440.5000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 18.0                      | 5.9                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 440.5000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 18.0                      | 5.9                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 440.5000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 18.0                      | 5.9                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 490.5000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 20.9                      | 5.9                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 490.5000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 20.9                      | 5.9                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 490.5000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 20.9                      | 5.9                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 490.5000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 20.9                      | 5.9                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 490.5000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 20.9                      | 5.9                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 490.5000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 20.9                      | 5.9                   | 30.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 539.5000         |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 22.5                      | 5.5                   | 29.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 539.5000         |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 22.5                      | 5.5                   | 29.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 539.5000         |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 22.5                      | 5.5                   | 29.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 539.5000         |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 22.5                      | 5.5                   | 29.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 539.5000         |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 22.5                      | 5.5                   | 29.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 539.5000         |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 22.5                      | 5.5                   | 29.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 528.6000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 22.2                      | 5.6                   | 29.8                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 528.6000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 22.2                      | 5.6                   | 29.8                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 528.6000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 22.2                      | 5.6                   | 29.8                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 528.6000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 22.2                      | 5.6                   | 29.8                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 528.6000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 22.2                      | 5.6                   | 29.8                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 528.6000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 22.2                      | 5.6                   | 29.8                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 588.6000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 23.6                      | 6.5                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 588.6000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 23.6                      | 6.5                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 588.6000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 23.6                      | 6.5                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 588.6000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 23.6                      | 6.5                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 588.6000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 23.6                      | 6.5                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 588.6000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 23.6                      | 6.5                   | 29.5                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 647.4000         |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 21.7                      | 7.9                   | 28.7                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 647.4000         |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 21.7                      | 7.9                   | 28.7                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 647.4000         |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 21.7                      | 7.9                   | 28.7                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 647.4000         |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 21.7                      | 7.9                   | 28.7                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 647.4000         |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 21.7                      | 7.9                   | 28.7                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 647.4000         |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 21.7                      | 7.9                   | 28.7                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 616.7000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 23.0                      | 7.2                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 616.7000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 23.0                      | 7.2                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 616.7000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 23.0                      | 7.2                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 616.7000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 23.0                      | 7.2                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 616.7000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 23.0                      | 7.2                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 616.7000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 23.0                      | 7.2                   | 29.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 686.7000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 20.4                      | 7.3                   | 28.4                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 686.7000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 20.4                      | 7.3                   | 28.4                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 686.7000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 20.4                      | 7.3                   | 28.4                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 686.7000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 20.4                      | 7.3                   | 28.4                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 686.7000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 20.4                      | 7.3                   | 28.4                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 686.7000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 20.4                      | 7.3                   | 28.4                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 755.3000         |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 21.6                      | 7.2                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 755.3000         |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 21.6                      | 7.2                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 755.3000         |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 21.6                      | 7.2                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 755.3000         |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 21.6                      | 7.2                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 755.3000         |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 21.6                      | 7.2                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 755.3000         |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 21.6                      | 7.2                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 704.8000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 20.2                      | 7.1                   | 28.2                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 704.8000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 20.2                      | 7.1                   | 28.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 704.8000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 20.2                      | 7.1                   | 28.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 704.8000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 20.2                      | 7.1                   | 28.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 704.8000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 20.2                      | 7.1                   | 28.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 704.8000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 20.2                      | 7.1                   | 28.2                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 784.8000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 20.6                      | 8.0                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 784.8000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 20.6                      | 8.0                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 784.8000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 20.6                      | 8.0                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 784.8000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 20.6                      | 8.0                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 784.8000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 20.6                      | 8.0                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 784.8000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 20.6                      | 8.0                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 863.2000         |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 23.6                      | 9.0                   | 27.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 863.2000         |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 23.6                      | 9.0                   | 27.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 863.2000         |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 23.6                      | 9.0                   | 27.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 863.2000         |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 23.6                      | 9.0                   | 27.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 863.2000         |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 23.6                      | 9.0                   | 27.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 863.2000         |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 23.6                      | 9.0                   | 27.0                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 792.9000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 20.3                      | 8.3                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 792.9000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 20.3                      | 8.3                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 792.9000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 20.3                      | 8.3                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 792.9000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 20.3                      | 8.3                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 792.9000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 20.3                      | 8.3                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 792.9000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 20.3                      | 8.3                   | 27.6                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 882.9000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 24.2                      | 8.4                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 882.9000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 24.2                      | 8.4                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 882.9000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 24.2                      | 8.4                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 882.9000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 24.2                      | 8.4                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 882.9000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 24.2                      | 8.4                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 882.9000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 24.2                      | 8.4                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 971.1000         |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 25.2                      | 8.0                   | 26.9                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 971.1000         |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 25.2                      | 8.0                   | 26.9                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 971.1000         |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 25.2                      | 8.0                   | 26.9                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 971.1000         |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 25.2                      | 8.0                   | 26.9                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 971.1000         |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 25.2                      | 8.0                   | 26.9                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 971.1000         |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 25.2                      | 8.0                   | 26.9                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.239)

|               |                       |  |  |  |  |  |  |  |  |  |  |  |             |          |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|-------------|----------|
| COMPANY       | Everwin International |  |  |  |  |  |  |  |  |  |  |  | DATE        | 1/8/2007 |
| EUT           | FM Modulator          |  |  |  |  |  |  |  |  |  |  |  | DUTY CYCLE  | N/A %    |
| MODEL         | Carplay Wireless Plus |  |  |  |  |  |  |  |  |  |  |  | PEAK TO AVG | N/A dB   |
| S/N           | N/A                   |  |  |  |  |  |  |  |  |  |  |  | TEST DIST.  | 3 Meters |
| TEST ENGINEER | R. Ramirez            |  |  |  |  |  |  |  |  |  |  |  | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments             |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------------------|
| 881.0000         |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 24.2                      | 8.5                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      | No frequencies found |
| 881.0000         |                           | A                                     | H                             |                               |                             | Y                      | LOW                  | 24.2                      | 8.5                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 881.0000         |                           | A                                     | H                             |                               |                             | Z                      | LOW                  | 24.2                      | 8.5                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 881.0000         |                           | A                                     | V                             |                               |                             | X                      | LOW                  | 24.2                      | 8.5                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 881.0000         |                           | A                                     | V                             |                               |                             | Y                      | LOW                  | 24.2                      | 8.5                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 881.0000         |                           | A                                     | V                             |                               |                             | Z                      | LOW                  | 24.2                      | 8.5                   | 27.1                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 981.0000         |                           | QP                                    | H                             |                               |                             | X                      | MED.                 | 25.2                      | 8.1                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 981.0000         |                           | QP                                    | H                             |                               |                             | Y                      | MED.                 | 25.2                      | 8.1                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 981.0000         |                           | QP                                    | H                             |                               |                             | Z                      | MED.                 | 25.2                      | 8.1                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 981.0000         |                           | QP                                    | V                             |                               |                             | X                      | MED.                 | 25.2                      | 8.1                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 981.0000         |                           | QP                                    | V                             |                               |                             | Y                      | MED.                 | 25.2                      | 8.1                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 981.0000         |                           | QP                                    | V                             |                               |                             | Z                      | MED.                 | 25.2                      | 8.1                   | 27.3                      | 0.0                        |                         |                                   |                     | 46.0                      |                      |
| 1079.0000        |                           | QP                                    | H                             |                               |                             | X                      | HIGH                 | 24.7                      | 6.6                   | 31.7                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 1079.0000        |                           | QP                                    | H                             |                               |                             | Y                      | HIGH                 | 24.7                      | 6.6                   | 31.7                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 1079.0000        |                           | QP                                    | H                             |                               |                             | Z                      | HIGH                 | 24.7                      | 6.6                   | 31.7                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 1079.0000        |                           | QP                                    | V                             |                               |                             | X                      | HIGH                 | 24.7                      | 6.6                   | 31.7                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 1079.0000        |                           | QP                                    | V                             |                               |                             | Y                      | HIGH                 | 24.7                      | 6.6                   | 31.7                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |
| 1079.0000        |                           | QP                                    | V                             |                               |                             | Z                      | HIGH                 | 24.7                      | 6.6                   | 31.7                      | 0.0                        |                         |                                   |                     | 54.0                      |                      |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

\*\* DELTA = SPEC LIMIT - CORRECTED READING

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# **COMPATIBLE ELECTRONICS**

Test Location : Compatible Electronics Page : 1/1  
 Customer : Alex Samson Date : 01/08/2007  
 Manufacturer : Everwin International Time : 01: 12: 11 PM  
 Eut name : FM Modulator Lab : F  
 Model : Cardi display Wireless Plus Test Distance : 3.00 Meters  
 Serial # : N/A  
 Specification : FCC Pt. 15- Class B  
 Distance correction factor (20 \* log(test/spec)) : 0.00  
 Test Mode : Band Edge Measurements 88-108  
 Test Engineer: R. Ramirez

| Pol | Freq<br>MHz | Reading<br>dBuV | Cable<br>loss<br>dB | Antenna<br>factor<br>dB | Amplifier<br>gain<br>dB | Corr'd<br>rdg = R<br>dBuV/m | Limit<br>= L<br>dBuV/m | Delta<br>R-L<br>dB |
|-----|-------------|-----------------|---------------------|-------------------------|-------------------------|-----------------------------|------------------------|--------------------|
| 1V  | 44. 216     | 45. 40          | 2. 34               | 12. 57                  | 30. 31                  | 30. 00                      | 40. 00                 | - 10. 00           |
| 2V  | 66. 330     | 48. 90          | 2. 67               | 9. 34                   | 29. 84                  | 31. 06                      | 40. 00                 | - 8. 94            |
| 3V  | 110. 590    | 42. 20          | 3. 15               | 13. 33                  | 30. 29                  | 28. 39                      | 43. 50                 | - 15. 11           |
| 4V  | 132. 768    | 40. 80          | 3. 23               | 14. 19                  | 30. 33                  | 27. 89                      | 43. 50                 | - 15. 61           |
| 5V  | 154. 843    | 40. 70          | 3. 32               | 14. 18                  | 30. 26                  | 27. 94                      | 43. 50                 | - 15. 56           |
| 6V  | 217. 721    | 35. 30          | 3. 93               | 15. 31                  | 28. 92                  | 25. 61                      | 46. 00                 | - 20. 39           |
| 7V  | 246. 086    | 31. 90          | 4. 58               | 16. 44                  | 28. 61                  | 24. 30                      | 46. 00                 | - 21. 70           |
| 8V  | 268. 486    | 32. 70          | 4. 40               | 19. 74                  | 28. 38                  | 28. 46                      | 46. 00                 | - 17. 54           |
| 9H  | 44. 216     | 40. 30          | 2. 34               | 12. 57                  | 30. 31                  | 24. 90                      | 40. 00                 | - 15. 10           |
| 10H | 66. 330     | 43. 80          | 2. 67               | 9. 34                   | 29. 84                  | 25. 96                      | 40. 00                 | - 14. 04           |
| 11H | 110. 590    | 36. 90          | 3. 15               | 13. 33                  | 30. 29                  | 23. 09                      | 43. 50                 | - 20. 41           |
| 12H | 132. 762    | 40. 20          | 3. 23               | 14. 19                  | 30. 33                  | 27. 29                      | 43. 50                 | - 16. 21           |
| 13H | 154. 852    | 37. 70          | 3. 32               | 14. 18                  | 30. 26                  | 24. 94                      | 43. 50                 | - 18. 56           |
| 14H | 217. 730    | 35. 90          | 3. 93               | 15. 31                  | 28. 92                  | 26. 21                      | 46. 00                 | - 19. 79           |
| 15H | 246. 095    | 35. 30          | 4. 58               | 16. 44                  | 28. 61                  | 27. 70                      | 46. 00                 | - 18. 30           |
| 16H | 268. 495    | 33. 50          | 4. 40               | 19. 74                  | 28. 38                  | 29. 26                      | 46. 00                 | - 16. 74           |
| 17V | 370. 009    | 31. 80          | 5. 01               | 13. 39                  | 29. 02                  | 21. 18                      | 46. 00                 | - 24. 82           |
| 18V | 468. 809    | 33. 60          | 5. 96               | 19. 84                  | 28. 97                  | 30. 43                      | 46. 00                 | - 15. 57           |
| 19V | 674. 015    | 32. 20          | 7. 56               | 20. 81                  | 28. 50                  | 32. 07                      | 46. 00                 | - 13. 93           |
| 20V | 774. 145    | 32. 90          | 7. 74               | 20. 96                  | 27. 80                  | 33. 80                      | 46. 00                 | - 12. 20           |
| 21H | 370. 020    | 35. 30          | 5. 01               | 13. 39                  | 29. 02                  | 24. 68                      | 46. 00                 | - 21. 32           |
| 22H | 468. 820    | 34. 50          | 5. 96               | 19. 84                  | 28. 97                  | 31. 33                      | 46. 00                 | - 14. 67           |
| 23H | 674. 020    | 32. 50          | 7. 56               | 20. 81                  | 28. 50                  | 32. 37                      | 46. 00                 | - 13. 63           |
| 24H | 774. 165    | 31. 80          | 7. 74               | 20. 95                  | 27. 80                  | 32. 70                      | 46. 00                 | - 13. 30           |