



# FCC PART 15.249 TEST REPORT

For

# **Jazwares Inc**

1067 Shotgun Road, Sunrise, FL 33326, USA

FCC ID: YNIJAZWARES15295B

| Report Type:     |   | Product Type:     |  |  |  |  |
|------------------|---|-------------------|--|--|--|--|
| Original Report  |   | STAR WARS - Mouse |  |  |  |  |
| Test Engineer:   | Brown Lu  | Brown Lu          |  |  |  |  |
| Report Number:   | RSZ120420813-00   |                   |  |  |  |  |
| Report Date:     | 2012-04-28  |                   |  |  |  |  |
| Reviewed By:     | Alvin Huang EMC Engineer  | Di Hung           |  |  |  |  |
| Test Laboratory: | Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn |                   |  |  |  |  |

**Note:** This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen). This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP\*, or any agency of the Federal Government.

\* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "\(\psi\)" (Rev.2)

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#### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

The Jazwares Inc's product, model number: 15295B (FCC ID: YNIJAZWARES15295B) or the "EUT" in this report is a STAR WARS - Mouse, which was measured approximately: 11.3 cm (L) x 5.7 cm (W) x 2.1 cm (H), rated input voltage:  $2 \times AAA$  1.5V alkaline battery

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All measurement and test data in this report was gathered from production sample serial number: 1204813 (Assigned by BACL, Shenzhen). The EUT was received on 2012-04-20.

#### **Objective**

This type approval report is prepared on behalf of *Jazwares Inc* in accordance with Part 2-Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

#### **Related Submittal(s)/Grant(s)**

No related submittal(s)

## **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

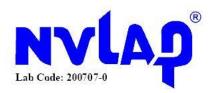
Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).

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The current scope of accreditations can be found at <a href="http://ts.nist.gov/Standards/scopes/2007070.htm">http://ts.nist.gov/Standards/scopes/2007070.htm</a>

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## **SYSTEM TEST CONFIGURATION**

#### Justification

The system was configured in a testing mode which provided by manufacturer.

## **Equipment Modifications**

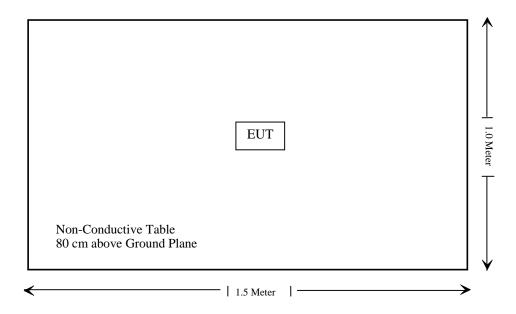
No modifications were made to the unit tested.

## **Configuration of Test Setup**



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## **Block Diagram of Test Setup**



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# SUMMARY OF TEST RESULTS

| FCC Rules                | Description of Test                         | Result     |
|--------------------------|---|------------|
| §15.203                  | Antenna Requirement                         | Compliance |
| §15.207(a)               | Conduction Emissions                        | N/A*       |
| 15.205, §15.209, §15.249 | Radiated Emissions                          | Compliance |
| §15.249(d)               | Outside of Band Emission (50dB attenuation) | Compliance |

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Note: EUT is powered by battery only.

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## FCC§15.203 - ANTENNA REQUIREMENT

## **Applicable Standard**

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

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## **Antenna Connector Construction**

The EUT has an integrated PCB antenna arrangement, which was permanently attached and the maximum gain was 0 dBi, fulfill the requirement of this section. Please refer to the internal photos.

Result: Compliant.

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### FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS

#### **Applicable Standard**

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental<br>frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|--------------------------|--|--|
| 902–928 MHz              | 50   | 500  |
| 2400–2483.5 MHz          | 50   | 500  |
| 5725–5875 MHz            | 50   | 500  |
| 24.0–24.25 GHz           | 250  | 2500   |

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As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

#### **Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. (k=2, 95% level of confidence).

#### **Test Equipment Setup**

The spectrum analyzer or receiver is set as:

Below 1000MHz:

RBW = 100 kHz / VBW = 300 kHz / Sweep = Auto

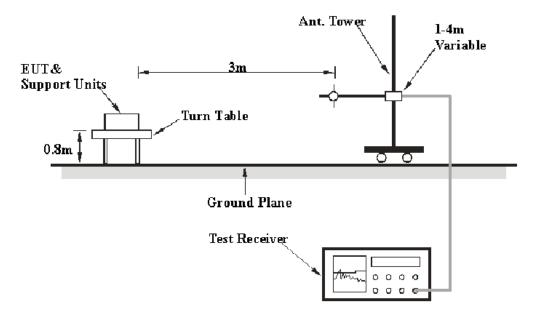
Above 1000MHz:

Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto

Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

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#### **EUT Setup**



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The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 mete, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

#### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

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## **Test Equipment List and Details**

| Manufacturer      | Description Mode  |          | Serial<br>Number | Calibration<br>Date | Calibration<br>Due Date |
|-------------------|-------------------|----------|------------------|---------------------|-------------------------|
| НР                | Amplifier         | 8447E    | 1937A01046       | 2011-11-24          | 2012-11-23              |
| Rohde & Schwarz   | EMI Test Receiver | ESCI     | 101122           | 2011-11-17          | 2012-11-16              |
| Sunol Sciences    | Broadband Antenna | JB1      | A040904-1        | 2012-03-17          | 2013-03-16              |
| Mini-Circuits     | Amplifier         | ZVA-213+ | 2011-11-24       | 2012-03-08          | 2013-03-07              |
| Sunol Sciences    | Horn Antenna      | DRH-118  | A052304          | 2011-12-01          | 2012-12-01              |
| Rohde & Schwarz   | Signal Analyzer   | FSIQ 26  | 609358           | 2011-07-08          | 2012-07-07              |
| Electro-Mechanics | Horn antenna      | 3116     | 9510-2270        | 2011-10-14          | 2012-10-13              |

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## **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249, with the worst margin reading of:

## 1.22 dB at 2396 MHz in the Horizontal polarization

#### **Test Data**

#### **Environmental Conditions**

| Temperature:       | 25 °C     |
|--------------------|-----------|
| Relative Humidity: | 56 %      |
| ATM Pressure:      | 100.2 kPa |

The testing was performed by Brown Lu on 2012-04-23.

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<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Mode: Transmitting

## 1) 30 MHz~25 GHz:

|        | C A             |           |           |        |         | A 4          | Cabla      | <b>A</b>     | Compatad            | FCC 15.2 | 09/ FC | C 15.249/ |
|--------|-----------------|-----------|-----------|--------|---------|--------------|------------|--------------|---------------------|----------|--------|-----------|
| Freq.  | S.A.<br>Reading | Detector  | Direction | Height | Polar   | Ant.<br>Loss | Cable loss | Amp.<br>Gain | Corrected Amplitude | F.C      | C 15 2 | 05        |
| (MHz)  | (dBµV)          | PK/QP/Ave | Degree    | (m)    | H/V     | (dB)         | (dB)       | (dB)         | (dBµV/m)            | Limit    | Margin | Comment   |
|        | (αDμ ۷)         |           |           |        |         | (uD)         | (uD)       | (ub)         | (αDμ 1/111)         | (dBµV/m) | (dB)   | Comment   |
|        |                 |           |           | Lov    | w Chan  | nel (24      | 08 MHz     | )            |                     |          |        |           |
| 2396   | 47.35           | Ave.      | 150       | 1.3    | Н       | 28.9         | 3.03       | 26.5         | 52.78               | 54       | 1.22*  | spurious  |
| 2408   | 86.65           | Ave.      | 20        | 1.4    | Н       | 28.9         | 3.03       | 26.5         | 92.08               | 94       | 1.92*  | Fund.     |
| 4816   | 39.18           | Ave.      | 170       | 1.1    | V       | 35.0         | 4.36       | 26.5         | 52.04               | 54       | 1.96*  | harmonic  |
| 2384.2 | 45.76           | Ave.      | 330       | 1.2    | Н       | 28.9         | 3.03       | 26.5         | 51.19               | 54       | 2.81*  | spurious  |
| 7224   | 34.70           | Ave.      | 160       | 1.0    | V       | 36.8         | 5.22       | 26.5         | 50.22               | 54       | 3.78*  | harmonic  |
| 2373.1 | 33.32           | Ave.      | 230       | 1.1    | Н       | 28.9         | 3.03       | 26.5         | 38.75               | 54       | 15.25  | spurious  |
| 2396   | 53.23           | PK        | 150       | 1.3    | Н       | 28.9         | 3.03       | 26.5         | 58.66               | 74       | 15.34  | spurious  |
| 2238.9 | 32.77           | Ave.      | 120       | 1.2    | V       | 28.8         | 2.90       | 26.5         | 37.97               | 54       | 16.03  | spurious  |
| 7224   | 40.88           | PK        | 160       | 1.0    | V       | 36.8         | 5.22       | 26.5         | 56.40               | 74       | 17.60  | harmonic  |
| 4816   | 43.21           | PK        | 170       | 1.1    | V       | 35.0         | 4.36       | 26.5         | 56.07               | 74       | 17.93  | harmonic  |
| 30.16  | 26.81           | QP        | 288       | 4.0    | Н       | 20.4         | 0.29       | 25.8         | 21.70               | 40.0     | 18.30  | spurious  |
| 2384.2 | 49.97           | PK        | 330       | 1.2    | Н       | 28.9         | 3.03       | 26.5         | 55.40               | 74       | 18.60  | spurious  |
| 2408   | 88.16           | PK        | 20        | 1.4    | Н       | 28.9         | 3.03       | 26.5         | 93.59               | 114      | 20.41  | Fund.     |
| 192.02 | 37.00           | QP        | 128       | 1.0    | V       | 10.1         | 0.80       | 25.2         | 22.70               | 43.5     | 20.80  | spurious  |
| 380.17 | 34.56           | QP        | 241       | 2.2    | V       | 13.5         | 1.64       | 25.6         | 24.10               | 46.0     | 21.90  | spurious  |
| 2238.9 | 41.51           | PK        | 120       | 1.2    | V       | 28.8         | 2.90       | 26.5         | 46.71               | 74       | 27.29  | spurious  |
| 2491.4 | 21.09           | Ave.      | 310       | 1.4    | V       | 28.9         | 3.11       | 26.5         | 26.60               | 54       | 27.40  | spurious  |
| 2373.1 | 40.52           | PK        | 230       | 1.1    | Н       | 28.9         | 3.03       | 26.5         | 45.95               | 74       | 28.05  | spurious  |
| 2491.4 | 34.96           | PK        | 310       | 1.4    | V       | 28.9         | 3.11       | 26.5         | 40.47               | 74       | 33.53  | spurious  |
|        |                 |           |           | Mide   | dle Cha | nnel (2      | 440 MH     | (z)          |                     |          |        |           |
| 4880   | 38.86           | Ave.      | 80        | 1.6    | V       | 35.0         | 4.36       | 26.5         | 51.72               | 54       | 2.28*  | harmonic  |
| 2440   | 85.53           | Ave.      | 240       | 1.2    | Н       | 28.9         | 3.11       | 26.5         | 91.04               | 94       | 2.96*  | Fund.     |
| 2290.1 | 43.39           | Ave.      | 230       | 1.6    | Н       | 28.8         | 2.99       | 26.5         | 48.68               | 54       | 5.32   | spurious  |
| 7320   | 28.27           | Ave.      | 270       | 1.1    | Н       | 36.8         | 5.09       | 26.5         | 43.66               | 54       | 10.34  | harmonic  |
| 4880   | 45.18           | PK        | 80        | 1.6    | V       | 35.0         | 4.36       | 26.5         | 58.04               | 74       | 15.96  | harmonic  |
| 30.16  | 27.01           | QP        | 288       | 4.0    | Н       | 20.4         | 0.29       | 25.8         | 21.90               | 40.0     | 18.10  | spurious  |
| 7320   | 38.76           | PK        | 270       | 1.1    | Н       | 36.8         | 5.09       | 26.5         | 54.15               | 74       | 19.85  | harmonic  |
| 192.02 | 36.70           | QP        | 128       | 1.0    | V       | 10.1         | 0.80       | 25.2         | 22.40               | 43.5     | 21.10  | spurious  |
| 2440   | 86.92           | PK        | 240       | 1.2    | Н       | 28.9         | 3.11       | 26.5         | 92.43               | 114      | 21.57  | Fund.     |
| 380.17 | 34.76           | QP        | 241       | 2.2    | V       | 13.5         | 1.64       | 25.6         | 24.30               | 46.0     | 21.70  | spurious  |
| 2290.1 | 45.98           | PK        | 230       | 1.6    | Н       | 28.8         | 2.99       | 26.5         | 51.27               | 74       | 22.73  | spurious  |
| 2497.4 | 21.32           | Ave.      | 60        | 1.8    | V       | 28.9         | 3.11       | 26.5         | 26.83               | 54       | 27.17  | spurious  |
| 2338.1 | 21.49           | Ave.      | 30        | 1.5    | V       | 28.8         | 2.98       | 26.5         | 26.77               | 54       | 27.23  | spurious  |
| 2324.7 | 20.58           | Ave.      | 310       | 1.3    | Н       | 28.8         | 2.98       | 26.5         | 25.86               | 54       | 28.14  | spurious  |
| 2338.1 | 36.77           | PK        | 30        | 1.5    | V       | 28.8         | 2.98       | 26.5         | 42.05               | 74       | 31.95  | spurious  |
| 2497.4 | 35.66           | PK        | 60        | 1.8    | V       | 28.9         | 3.11       | 26.5         | 41.17               | 74       | 32.83  | spurious  |
| 2324.7 | 32.43           | PK        | 310       | 1.3    | Н       | 28.8         | 2.98       | 26.5         | 37.71               | 74       | 36.29  | spurious  |
|        |                 |           |           |        |         |              | 74 MHz     | ·            |                     | T        |        |           |
| 4948   | 39.86           | Ave.      | 340       | 1.5    | V       | 35.0         | 4.40       | 26.5         | 52.76               | 54       | 1.24*  | harmonic  |
| 7422   | 35.68           | Ave.      | 230       | 1.6    | Н       | 36.8         | 5.20       | 26.5         | 51.18               | 54       | 2.82*  | harmonic  |
| 2474   | 84.77           | Ave.      | 150       | 1.0    | Н       | 28.9         | 3.11       | 26.5         | 90.28               | 94       | 3.72*  | Fund.     |

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Bay Area Compliance Laboratories Corp. (Shenzhen)

2497.9

39.03

PK

350

1.3

Н

| Bay Area Compliance Laboratories Corp. (Shenzhen) |       |      |     |     |   |      |      |      | Report 1 | No.: RSZ12 | 2042081 | 3-00     |
|---|-------|------|-----|-----|---|------|------|------|----------|------------|---------|----------|
| 2324.1  | 44.28 | Ave. | 290 | 1.4 | Н | 28.8 | 2.98 | 26.5 | 49.56    | 54         | 4.44    | spurious |
| 2174.3  | 41.76 | Ave. | 160 | 1.2 | Н | 28.6 | 2.84 | 26.5 | 46.70    | 54         | 7.30    | spurious |
| 2487  | 38.49 | Ave. | 130 | 1.8 | Н | 28.9 | 3.11 | 26.5 | 44.00    | 54         | 10.00   | spurious |
| 2485.8  | 36.97 | Ave. | 330 | 1.6 | Н | 28.9 | 3.11 | 26.5 | 42.48    | 54         | 11.52   | spurious |
| 4948  | 47.12 | PK   | 340 | 1.5 | V | 35.0 | 4.40 | 26.5 | 60.02    | 74         | 13.98   | harmonic |
| 2487  | 50.70 | PK   | 130 | 1.8 | Н | 28.9 | 3.11 | 26.5 | 56.21    | 74         | 17.79   | spurious |
| 30.16   | 26.71 | QP   | 288 | 4.0 | Н | 20.4 | 0.29 | 25.8 | 21.60    | 40.0       | 18.40   | spurious |
| 2497.9  | 29.25 | Ave. | 350 | 1.3 | Н | 28.9 | 3.11 | 26.5 | 34.76    | 54         | 19.24   | spurious |
| 7422  | 38.98 | PK   | 230 | 1.6 | Н | 36.8 | 5.20 | 26.5 | 54.48    | 74         | 19.52   | harmonic |
| 192.02  | 36.50 | QP   | 128 | 1.0 | V | 10.1 | 0.80 | 25.2 | 22.20    | 43.5       | 21.30   | spurious |
| 380.17  | 34.96 | QP   | 241 | 2.2 | V | 13.5 | 1.64 | 25.6 | 24.50    | 46.0       | 21.50   | spurious |
| 2324.1  | 46.24 | PK   | 290 | 1.4 | Н | 28.8 | 2.98 | 26.5 | 51.52    | 74         | 22.48   | spurious |
| 2474  | 85.10 | PK   | 150 | 1.0 | Н | 28.9 | 3.11 | 26.5 | 90.61    | 114        | 23.39   | Fund.    |
| 2485.8  | 44.41 | PK   | 330 | 1.6 | Н | 28.9 | 3.11 | 26.5 | 49.92    | 74         | 24.08   | spurious |
| 2174.3  | 44.60 | PK   | 160 | 1.2 | Н | 28.6 | 2.84 | 26.5 | 49.54    | 74         | 24.46   | spurious |

28.9

3.11

26.5

44.54

74

29.46 spurious

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## FCC§15.249(d) - OUT OF BAND EMISSION (50dB ATTENUATION)

#### **Applicable Standard**

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation

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#### **Test Procedure**

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

#### **Test Equipment List and Details**

| Manufacturer    | Description       | Model | Serial<br>Number | Calibration<br>Date | Calibration<br>Due Date |
|-----------------|-------------------|-------|------------------|---------------------|-------------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCI  | 101122           | 2011-11-17          | 2012-11-16              |

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

#### **Test Data**

#### **Environmental Conditions**

| Temperature:       | 25 °C    |  |
|--------------------|----------|--|
| Relative Humidity: | 56 %     |  |
| ATM Pressure:      | 100.9kPa |  |

<sup>\*</sup> The testing was performed by Brown Lu on 2012-04-28.

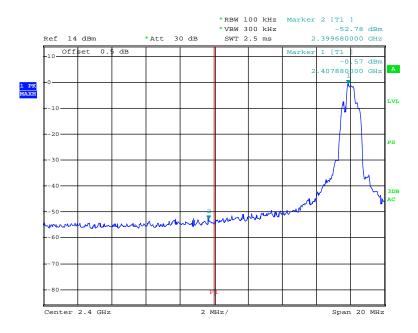
Test Result: Compliance. Please refer to the following table and plots:

| Frequency<br>(MHz) | Delta Peak to Band Emission (dBc) | Delta Limit<br>(dBc) |
|--------------------|-----------------------------------|----------------------|
| 2399.680           | 52.21                             | 50                   |
| 2484.580           | 52.75                             | 50                   |

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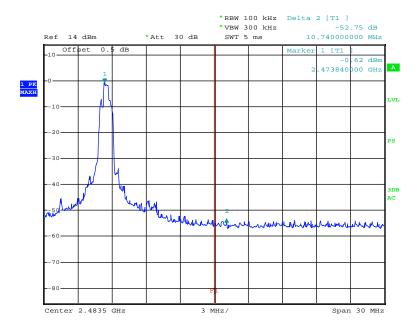
## **Band Edge: Left Side**

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Date: 28.APR.2012 20:18:54

## **Band Edge: Right Side**



Date: 28.APR.2012 20:22:28

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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