

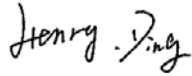
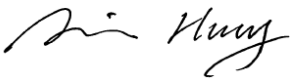
FCC PART 15B, CLASS B
TEST REPORT

For

Imobiile Technology, L.L.C

8227 NW 68 ST., MIAMI, FLORIDA 33166, USA

FCC ID: ZOTII-TOUCH

| | |
|---|--|
| Report Type: Original Report | Product Type: Mobile Phone |
| Test Engineer: Henry Ding |  |
| Report Number: RSZ111209002-00b | |
| Report Date: 2011-12-26 | |
| Reviewed By: Alvin Huang EMC Engineer |  |
| 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 device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. 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 "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Imobiile Technology, L.L.C*'s product, model number: *ii-TOUCH (FCC ID: ZOTII-TOUCH)* or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 11.0 cm (L) x 5.5 cm (W) x 1.5 cm (H), rated input voltage: DC 3.7 V battery or DC 5V adapter for Charging.

Adapter information:

Model: mlo

Input: AC 100-240 V, 50/60Hz, 0.15A

Output: DC 5.0V, 500mA

** All measurement and test data in this report was gathered from production sample serial number: 1112014 (Assigned by BACL, Shenzhen). The EUT was received on 2011-12-09.*

Objective

This report is prepared on behalf of *Imobiile Technology, L.L.C* in accordance with Part 2, Subpart J, Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine compliance with FCC Part 15 B.

Related Submittal(s)/Grant(s)

Part 22H/24E PCE and Part 15.247 DSS, DTS submission with FCC ID: ZOTII-TOUCH

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.

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).



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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

Test Mode 1: Charging & Media Palying

Test Mode 2: Downloading (data transmits with Computer)

EUT Exercise Software

“winthrax” exercise software was used.

Equipment Modifications

No modification was made to the unit tested.

Host System Configuration List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------------------|--------------------------|
| DELL | Motherboard | OWC297 | CN-OWC297-70821-564-00NI |
| DELL | Power | NPS-250KB D | CN-0H2678-17972-56E-80BM |
| Seagate | Hard Disk | ST340014A | 5JXK3GXE |
| DELL | 3.5' Floppy | N/A | CN-0N8893-69802-54Q-02P0 |
| Lite-ON | CD-Rom | LTN-489S | N/A |
| ProMOS | Memory | V826632K24SATG-C0 | 0525-K1933700 |
| Intel | CPU | Celeron D-2533 | N/A |
| Intel | Ethernet | PRO 10/100 VE | N/A |

Support Equipment List and Details

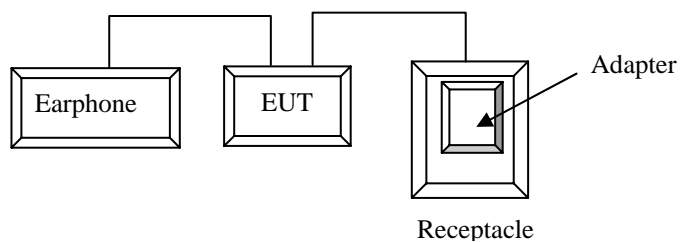
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|----------|--------------------------|
| DELL | Host PC | GX280 | N/A |
| DELL | LCD Monitor | E178WFPC | CN-OWY564-64180-7C4-2SQH |
| DELL | Mouse | MOC5UO | G1B0096D |
| HP | Printer | C3941A | JPTVOB2337 |
| SAST | Modem | AEM-2100 | 0293 |
| DELL | Keyboard | L100 | CNORH656658907BL04TY |

External I/O Cable

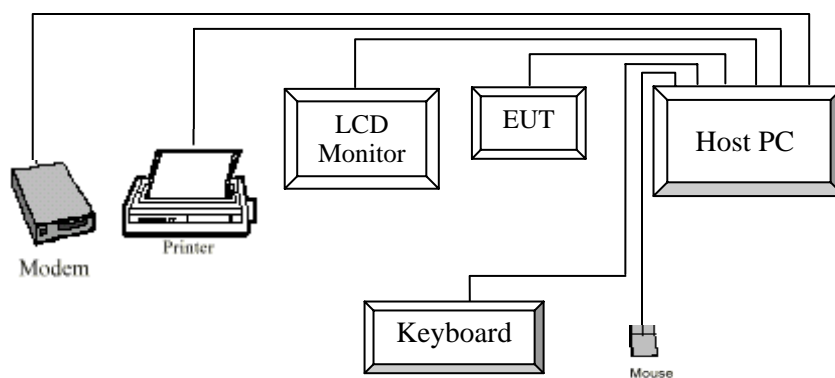
| Cable Description | Length (m) | From/Port | To |
|-----------------------------------|------------|-----------|-------------|
| Shielded Detachable USB Cable | 1.5 | Host PC | Mouse |
| Shielded Detachable Printer Cable | 1.2 | Host PC | Printer |
| Shielded Detachable Serial Cable | 1.2 | Host PC | Modem |
| Shielded Detachable K/B Cable | 1.5 | Host PC | Keyboard |
| Shielded Detachable VGA Cable | 1.8 | Host PC | LCD Monitor |
| Unshielded Detachable USB Cable | 0.8 | EUT | Host PC |
| Unshielded Detachable DC Cable | 1.8 | Adapter | LISN |

Configuration of Test Setup

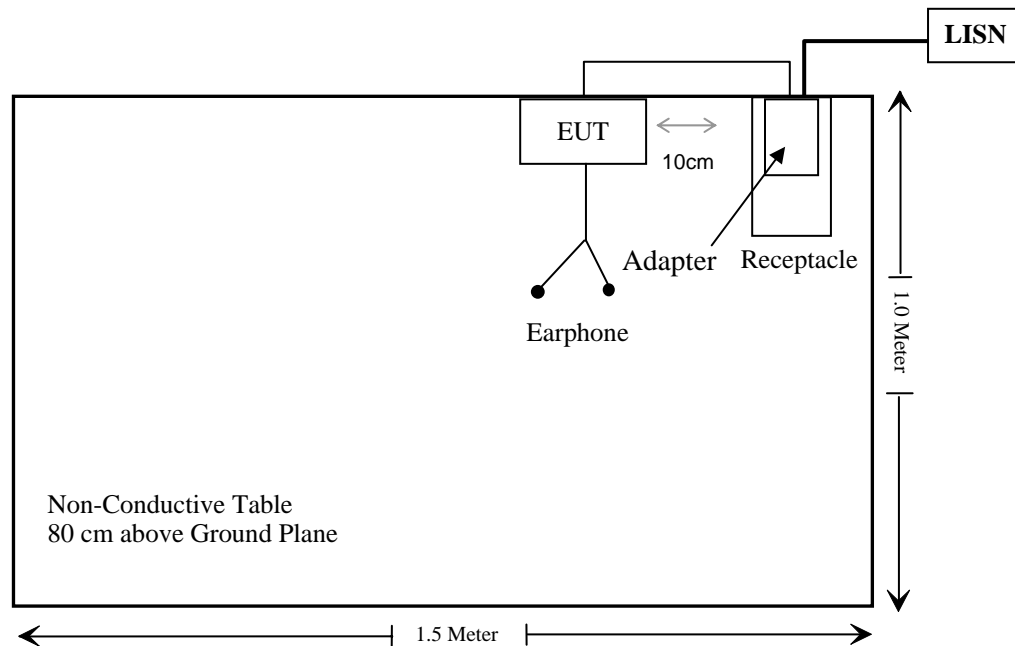
Test Mode 1: Charging & Media playing mode:



Test Mode 2: Downloading mode:



Test Mode 1: Charging & Media playing mode:



The diagram illustrates the experimental setup for LISN measurements. A non-conductive table, 80 cm above the ground plane, holds the following components from left to right: Modem, Printer, LCD Monitor, EUT, and Host PC. The distance between each component is 10 cm. The table is 1.5 meters wide and 1.0 meter high. LISN 1 is connected to the Host PC, and LISN 2 is connected to the Modem. The Keyboard and Mouse are connected to the Host PC and are 10 cm apart.

SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Results |
|-----------|-----------------------------|------------|
| §15.107 | AC Line Conducted Emissions | Compliance |
| §15.109 | Radiated Spurious Emissions | Compliance |

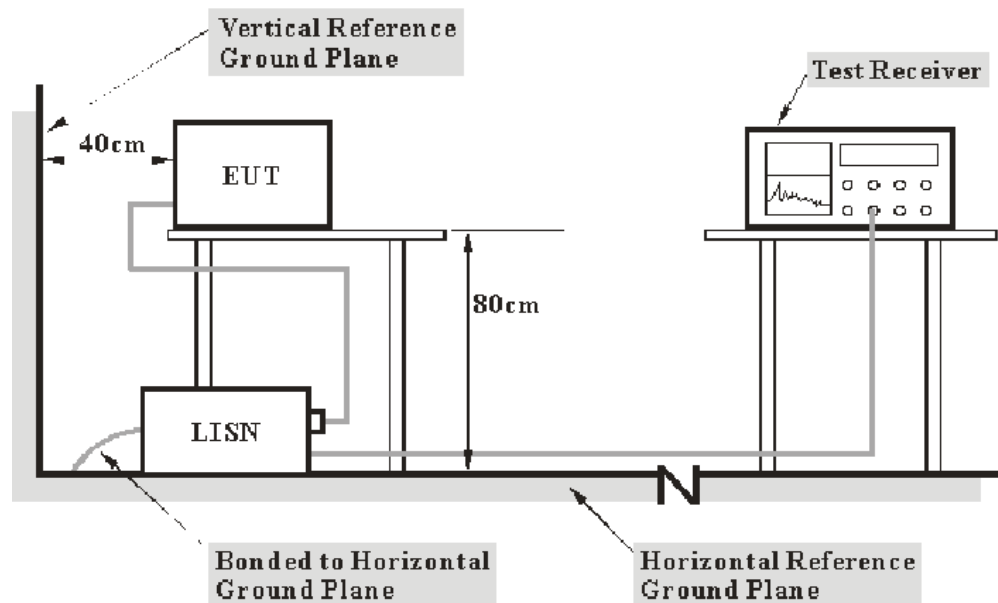
FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 2.4 dB.(k=2, 95% level of confidence)

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| <u>Frequency Range</u> | <u>IF B/W</u> |
|------------------------|---------------|
| 150 kHz – 30 MHz | 9 kHz |

Test Procedure

During the conducted emission test, the host PC was connected to the outlet of the LISN, and the other relevant equipments were connected to the second LISN for downloading mode.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|---------------|------------------|----------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 830245/006 | 2011-03-03 | 2012-03-02 |
| Rohde & Schwarz | L.I.S.N. | ESH2-Z5 | 892107/021 | 2011-03-09 | 2012-03-08 |
| Com-Power | L.I.S.N. | LI-200 | 12005 | N/A | N/A |
| Com-Power | L.I.S.N. | LI-200 | 12208 | N/A | N/A |

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

20.64 dB at 0.185 MHz in the Neutral conducted mode

Test Data

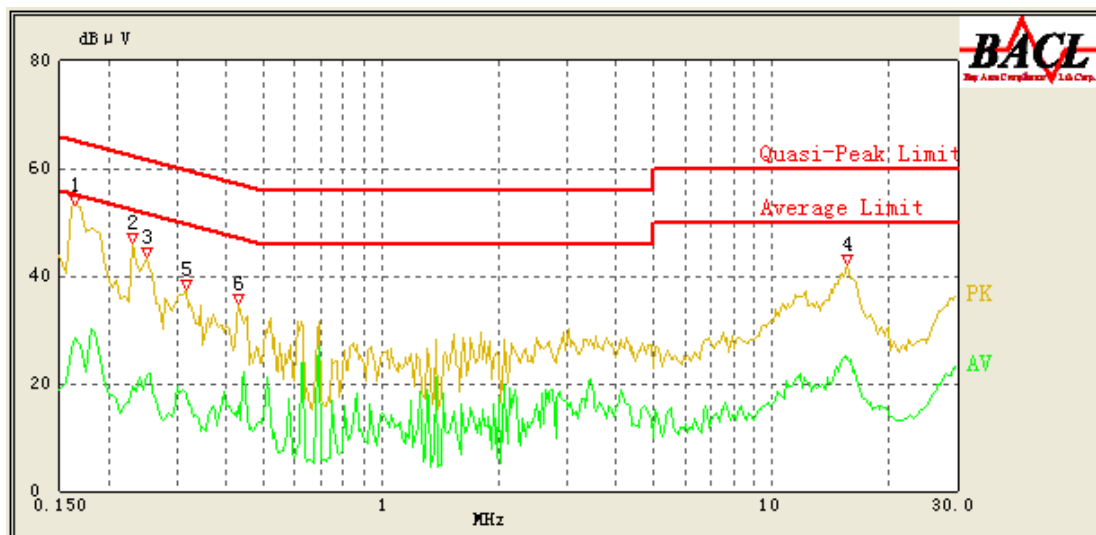
Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 48 % |
| ATM Pressure: | 100.0 kPa |

The testing was performed by Henry Ding on 2011-12-21.

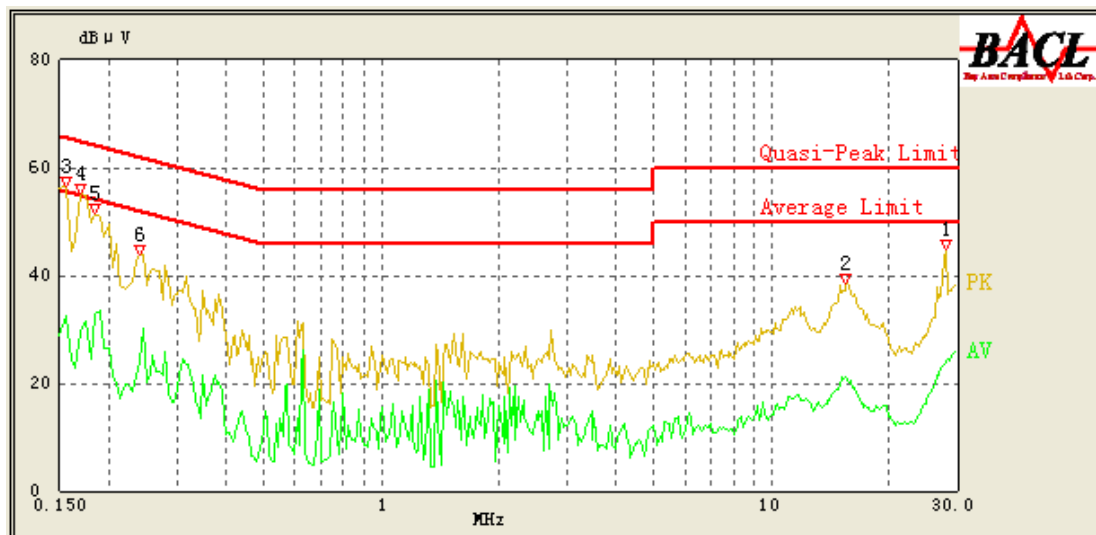
Scan with Test Mode 1 & 2, and worst case data is Test Mode 2(downloading mode) as below:

AC 120V/60 Hz, Line



| Frequency (MHz) | Corrected Amplitude (dBμV) | Correction Factor (dB) | Limit (dBμV) | Margin (dB) | Detector (PK/Ave./QP) |
|-----------------|----------------------------|------------------------|--------------|-------------|-----------------------|
| 15.520 | 25.04 | 11.45 | 50.00 | 24.96 | Ave. |
| 15.560 | 34.86 | 11.45 | 60.00 | 25.14 | QP |
| 0.250 | 36.73 | 10.23 | 63.14 | 26.41 | QP |
| 0.230 | 37.07 | 10.23 | 63.71 | 26.64 | QP |
| 0.165 | 28.48 | 10.23 | 55.57 | 27.09 | Ave. |
| 0.315 | 30.54 | 10.23 | 61.29 | 30.75 | QP |
| 0.165 | 34.81 | 10.23 | 65.57 | 30.76 | QP |
| 0.430 | 26.49 | 10.23 | 58.00 | 31.51 | QP |
| 0.250 | 21.48 | 10.23 | 53.14 | 31.66 | Ave. |
| 0.430 | 16.00 | 10.23 | 48.00 | 32.00 | Ave. |
| 0.315 | 18.33 | 10.23 | 51.29 | 32.96 | Ave. |
| 0.230 | 19.41 | 10.23 | 53.71 | 34.30 | Ave. |

AC 120V/60 Hz, Neutral



| Frequency (MHz) | Corrected Amplitude (dBμV) | Correction Factor (dB) | Limit (dBμV) | Margin (dB) | Detector (PK/Ave./QP) |
|-----------------|----------------------------|------------------------|--------------|-------------|-----------------------|
| 0.185 | 44.36 | 10.23 | 65.00 | 20.64 | QP |
| 0.185 | 32.67 | 10.23 | 55.00 | 22.33 | Ave. |
| 0.155 | 32.44 | 10.23 | 55.86 | 23.42 | Ave. |
| 0.155 | 41.23 | 10.23 | 65.86 | 24.63 | QP |
| 0.240 | 38.45 | 10.23 | 63.43 | 24.98 | QP |
| 0.170 | 39.69 | 10.23 | 65.43 | 25.74 | QP |
| 0.170 | 29.49 | 10.23 | 55.43 | 25.94 | Ave. |
| 27.925 | 23.80 | 12.82 | 50.00 | 26.20 | Ave. |
| 15.480 | 21.03 | 11.45 | 50.00 | 28.97 | Ave. |
| 0.240 | 24.09 | 10.23 | 53.43 | 29.34 | Ave. |
| 15.500 | 30.47 | 11.45 | 60.00 | 29.53 | QP |
| 27.875 | 27.72 | 12.81 | 60.00 | 32.28 | QP |

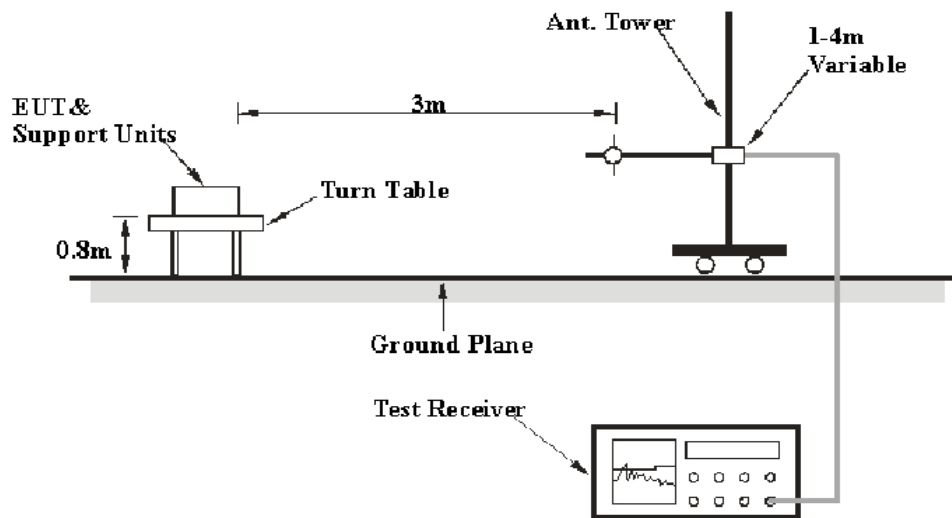
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

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 estimation of the uncertainty of radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. (k=2, 95% level of confidence)

EUT Setup



The radiated 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 Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| <i>Frequency</i> | <i>RB/W</i> | <i>VB/W</i> | <i>IF B/W</i> | <i>Detection</i> |
|------------------|-------------|-------------|---------------|------------------|
| 30 MHz-1 GHz | 100 kHz | 300 kHz | 120 kHz | Quasi-peak |

Test Procedure

For the radiated emissions test, the host PC and relevant equipments were connected to AC floor outlet.

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

All the data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|---------------|------------------|----------------------|
| HP | Amplifier | HP8447E | 1937A01046 | 2011-08-02 | 2012-08-02 |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 100035 | 2011-11-11 | 2012-11-10 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-1 | 2011-07-05 | 2012-07-04 |

* **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.

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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, with the worst margin reading of:

1.6 dB at 33.728250 MHz in the Vertical polarization

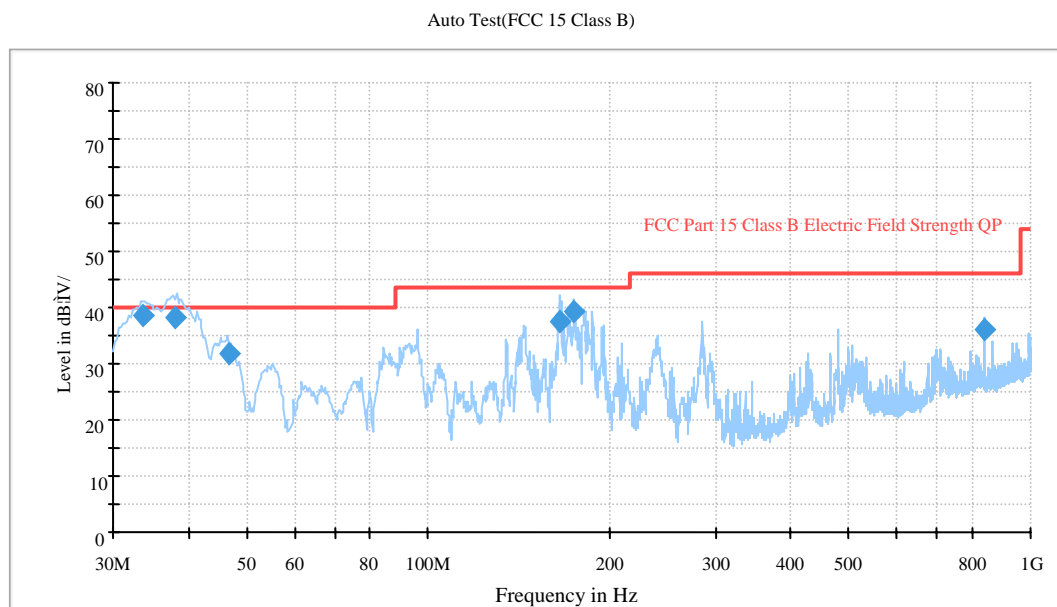
Test Data

Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 48 % |
| ATM Pressure: | 100.0 kPa |

The testing was performed by Henry Ding on 2011-12-21.

Scan with Test Mode 1 & 2, and worst case data is Test Mode 2(downloading mode) as below:



| Frequency (MHz) | Corrected Amplitude (dBμV/m) | Antenna | | Turntable Position (degree) | Correction Factor (dB) | Limit (dBμV/m) | Margin (dB) |
|-----------------|------------------------------|-------------|----------------|-----------------------------|------------------------|----------------|-------------|
| | | Height (cm) | Polarity (H/V) | | | | |
| 33.728250 | 38.4 | 100.0 | V | 136.0 | -8.0 | 40.0 | 1.6* |
| 38.031000 | 38.2 | 100.0 | V | 245.0 | -10.8 | 40.0 | 1.8* |
| 174.983750 | 39.4 | 144.0 | H | 82.0 | -15.1 | 43.5 | 4.1 |
| 166.023750 | 37.6 | 162.0 | H | 270.0 | -14.7 | 43.5 | 5.9 |
| 46.769250 | 31.8 | 100.0 | V | 244.0 | -15.9 | 40.0 | 8.2 |
| 836.550000 | 36.2 | 100.0 | H | 45.0 | -0.6 | 46.0 | 9.8 |

*Within measurement uncertainty!

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