



FCC PART 15B, CLASS B TEST REPORT

For

Grandstream Networks, Inc.

5F, Bldg. #1, No.2 Kefa Road, Science & Technology Park,

Shenzhen, Guangdong, China

FCC ID: YZZGXP2200

Report Type: **Product Name:** Wireless IP Phone Original Report Lebron Wang **Test Engineer:** Lebron Wang Report Number: RSZ120919010-00 **Report Date:** 2012-09-27 Sula Huang Sula Hua Reviewed By: RF 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 may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "★"

TABLE OF CONTENTS

| GENERAL INFORMATION | 3 |
|--|----|
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 3 |
| Objective | |
| RELATED SUBMITTAL(S)/GRANT(S) | 3 |
| TEST METHODOLOGY | |
| TEST FACILITY | 3 |
| SYSTEM TEST CONFIGURATION (FCC §15.27) | 5 |
| JUSTIFICATION | |
| EQUIPMENT MODIFICATIONS | |
| REMOTE AND SUPPORT EQUIPMENT LIST AND DETAILS | |
| External I/O Cable | |
| BLOCK DIAGRAM OF TEST SETUP | 6 |
| SUMMARY OF TEST RESULTS | 7 |
| FCC §15.107 – AC LINE CONDUCTED EMISSIONS | |
| MEASUREMENT UNCERTAINTY | |
| EUT SETUP | |
| EMI TEST RECEIVER SETUP. | |
| TEST PROCEDURE | |
| TEST I ROCEDURE TEST EQUIPMENT LIST AND DETAILS | |
| CORRECTED FACTOR & MARGIN CALCULATION | |
| TEST RESULTS SUMMARY | |
| TEST DATA | |
| FCC §15.109 - RADIATED SPURIOUS EMISSIONS | 14 |
| MEASUREMENT UNCERTAINTY | |
| EUT SETUP. | |
| EMI TEST RECEIVER SETUP | |
| TEST PROCEDURE | |
| TEST EQUIPMENT LIST AND DETAILS | |
| CORRECTED AMPLITUDE & MARGIN CALCULATION | |
| TEST RESULTS SUMMARY | |
| Test Data | 16 |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Grandstream Networks, Inc.*'s product, model number *GXP2200 (FCC ID: YZZGXP2200)* or the "EUT" in this report was a *IP Phone*, which was measured approximately: 18.8 cm (L) x 21.0 cm (W) x 8.5 cm (H), rated input: DC 12.0V from adapter or PoE, the highest operating frequency of EUT is 648 MHz.

Report No.: RSZ120919010-00

Adapter information: Model: SFF1200150A1BY

Input: AC 100-240 V, 50/60 Hz, 0.4A

Output: DC 12.0V, 1.5A

*All measurement and test data in this report was gathered from production sample serial number: 1209100 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2012-09-19.

Objective

The following test report is prepared on behalf of *Grandstream Networks*, *Inc.* in accordance with Part 2-Subpart J, and Part 15-Subparts A and B of the Federal Communication Commissions rules.

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

Related Submittal(s)/Grant(s)

FCC part 15.247 DSS submissions with FCC ID: YZZGXP2200

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.

FCC Part 15B, Class B Page 3 of 19

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.

FCC Part 15B, Class B Page 4 of 19

SYSTEM TEST CONFIGURATION (FCC §15.27)

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

Report No.: RSZ120919010-00

Equipment Modifications

No modification was made to the EUT tested.

Remote and Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-----------------|-------------|---------------|
| Grandstream | IP PHONE | GXP200 | N/A |
| DELL | PC | VOSTRO 220S | 127BP2X |
| NETGEAR | GEAR POE FS108P | | N/A |
| Kingston | SD CARD | 2GB | N/A |
| Kingston | U-disk | 2GB | N/A |
| Grandstream | Extension Board | GXP2200EXT | N/A |

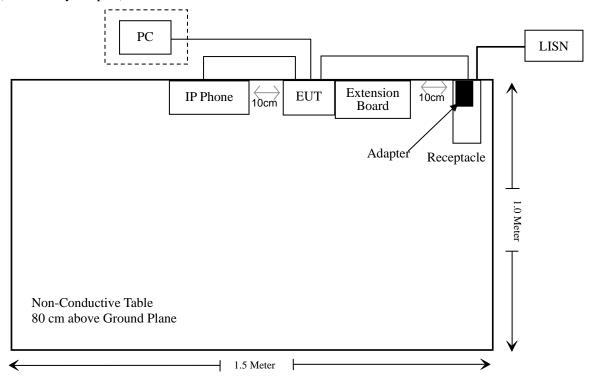
External I/O Cable

| Cable Description | Length (m) | From/Port | То |
|--------------------------------------|------------|-----------|-----------------|
| Unshielded Detachable RJ45 Cable | 1.8 | EUT | IP Phone |
| Unshielded Detachable RJ45 Cable | 10.0 | EUT | PC |
| Unshielded Detachable RJ45 Cable | 0.2 | EUT | Extension Board |
| Unshielded Detachable RJ45 Cable | 1.8 | EUT | PoE |
| Unshielded Detachable DC Power Cable | 2.6 | EUT | EUT Adapter |
| Unshielded Detachable DC Power Cable | 1.8 | РоЕ | PoE Adapter |

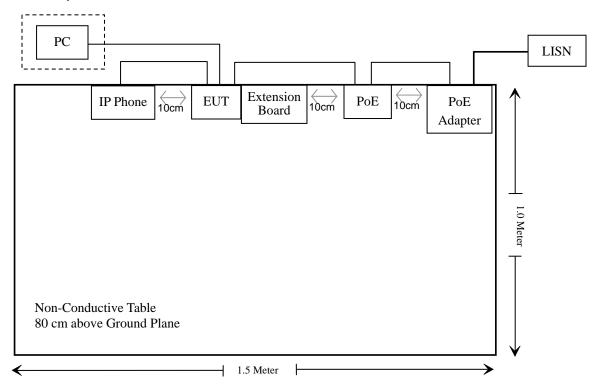
FCC Part 15B, Class B Page 5 of 19

Block Diagram of Test Setup

Talking (Powered by adapter)



Talking (Powered by PoE)



FCC Part 15B, Class B Page 6 of 19

SUMMARY OF TEST RESULTS

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

Report No.: RSZ120919010-00

FCC Part 15B, Class B Page 7 of 19

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

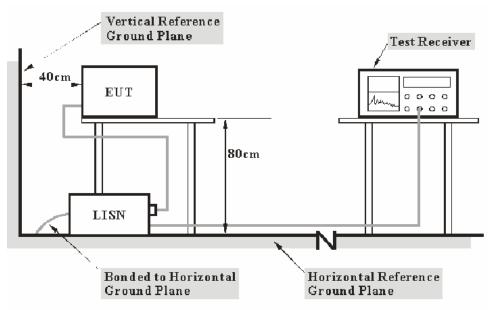
Measurement Uncertainty

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 16-4-2, 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), and the uncertainty will not be taken into consideration for all the test data recorded in the report.

Report No.: RSZ120919010-00

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 receptacle was connected to a 120 VAC/60 Hz power source for AC adapter power supply.

The PoE adapter was connected to a 120 VAC/60 Hz power source for PoE power supply.

FCC Part 15B, Class B Page 8 of 19

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:

Report No.: RSZ120919010-00

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

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 | 100176 | 2011-11-24 | 2012-11-23 |
| Rohde & Schwarz | L.I.S.N. | ESH2-Z5 | 892107/021 | 2011-11-17 | 2012-11-16 |
| Rohde & Schwarz | Attenuator | ESH3Z2 | DE25985 | 2012-07-08 | 2013-07-07 |
| BACL | CE Test software | BACL-CE | V1.0 | - | - |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed using suitable standards traceable to national primary standards and international system of units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Pulse Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Pulse Limiter Attenuation

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 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the worst margin reading of:

2.35 dB at **0.490 MHz** in the Line conducted mode (powered by PoE)

FCC Part 15B, Class B Page 9 of 19

Test Data

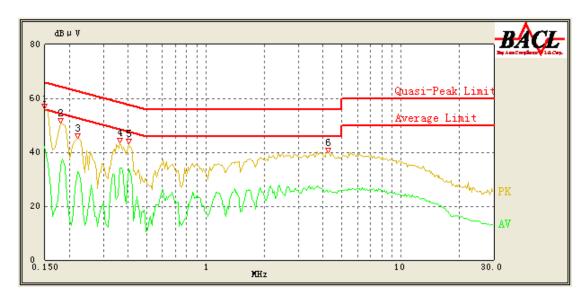
Environmental Conditions

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

The testing was performed by Lebron Wang on 2012-09-26.

Test Mode: Talking/ Data transferring (Powered by adapter)

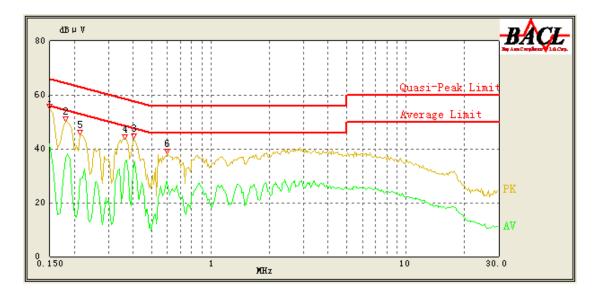
AC 120V/60 Hz, Line:



| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/ QP/Ave.) |
|-----------------|----------------------------------|------------------------------|-----------------|----------------|---------------------------|
| 0.150 | 53.79 | 10.27 | 66.00 | 12.21 | QP |
| 0.150 | 42.20 | 10.27 | 56.00 | 13.80 | Ave. |
| 0.405 | 33.76 | 10.26 | 48.71 | 14.95 | Ave. |
| 0.365 | 34.12 | 10.26 | 49.86 | 15.74 | Ave. |
| 0.180 | 47.89 | 10.27 | 65.14 | 17.25 | QP |
| 0.405 | 40.17 | 10.26 | 58.71 | 18.54 | QP |
| 0.365 | 40.74 | 10.26 | 59.86 | 19.12 | QP |
| 0.180 | 34.89 | 10.27 | 55.14 | 20.25 | Ave. |
| 4.250 | 25.18 | 10.28 | 46.00 | 20.82 | Ave. |
| 0.220 | 42.72 | 10.27 | 64.00 | 21.28 | QP |
| 0.220 | 32.69 | 10.27 | 54.00 | 21.31 | Ave. |
| 4.245 | 32.54 | 10.28 | 56.00 | 23.46 | QP |

FCC Part 15B, Class B
Page 10 of 19

AC 120V/60 Hz, Neutral

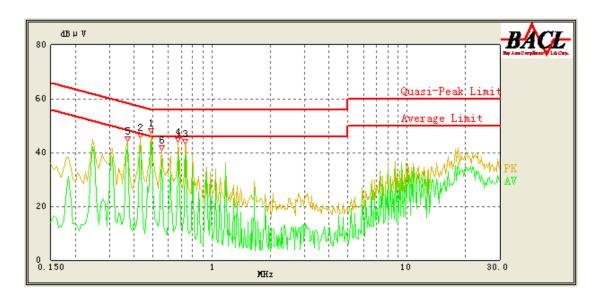


| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/ QP/Ave.) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|---------------------------|
| 0.150 | 53.26 | 10.24 | 66.00 | 12.74 | QP |
| 0.405 | 34.48 | 10.25 | 48.71 | 14.23 | Ave. |
| 0.150 | 41.68 | 10.24 | 56.00 | 14.32 | Ave. |
| 0.365 | 34.69 | 10.25 | 49.86 | 15.17 | Ave. |
| 0.180 | 47.52 | 10.24 | 65.14 | 17.62 | QP |
| 0.405 | 40.69 | 10.25 | 58.71 | 18.02 | QP |
| 0.600 | 27.67 | 10.23 | 46.00 | 18.33 | Ave. |
| 0.180 | 36.50 | 10.24 | 55.14 | 18.64 | Ave. |
| 0.365 | 41.16 | 10.25 | 59.86 | 18.70 | QP |
| 0.595 | 35.07 | 10.23 | 56.00 | 20.93 | QP |
| 0.215 | 41.08 | 10.24 | 64.14 | 23.06 | QP |
| 0.215 | 28.73 | 10.24 | 54.14 | 25.41 | AV |

FCC Part 15B, Class B
Page 11 of 19

Test Mode: Talking/ Data transferring (Powered by PoE)

AC 120V/60 Hz, Line:

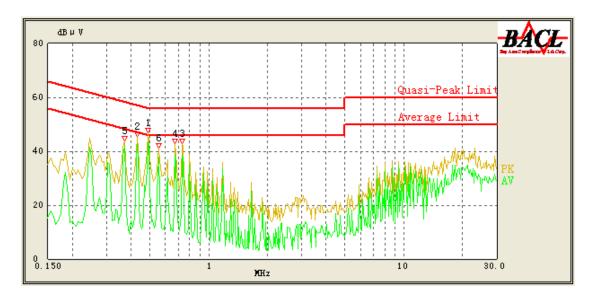


| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/ QP/Ave.) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|---------------------------|
| 0.490 | 43.94 | 10.25 | 46.29 | 2.35* | Ave. |
| 0.430 | 42.65 | 10.26 | 48.00 | 5.35 | Ave. |
| 0.675 | 39.59 | 10.22 | 46.00 | 6.41 | Ave. |
| 0.735 | 38.94 | 10.21 | 46.00 | 7.06 | Ave. |
| 0.370 | 41.82 | 10.26 | 49.71 | 7.89 | Ave. |
| 0.555 | 37.66 | 10.24 | 46.00 | 8.34 | Ave. |
| 0.490 | 45.75 | 10.25 | 56.29 | 10.54 | QP |
| 0.675 | 42.75 | 10.22 | 56.00 | 13.25 | QP |
| 0.430 | 44.45 | 10.26 | 58.00 | 13.55 | QP |
| 0.735 | 41.35 | 10.21 | 56.00 | 14.65 | QP |
| 0.370 | 43.14 | 10.26 | 59.71 | 16.57 | QP |
| 0.555 | 39.03 | 10.24 | 56.00 | 16.97 | QP |

 $[*]Within\ measurement\ uncertainty!$

FCC Part 15B, Class B Page 12 of 19

AC 120V/60 Hz, Neutral



| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/ QP/Ave.) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|---------------------------|
| 0.490 | 43.43 | 10.24 | 46.29 | 2.86 | Ave. |
| 0.430 | 42.57 | 10.25 | 48.00 | 5.43 | Ave. |
| 0.675 | 38.78 | 10.22 | 46.00 | 7.22 | Ave. |
| 0.735 | 38.29 | 10.21 | 46.00 | 7.71 | Ave. |
| 0.370 | 41.75 | 10.25 | 49.71 | 7.96 | Ave. |
| 0.555 | 38.00 | 10.23 | 46.00 | 8.00 | Ave. |
| 0.490 | 45.32 | 10.24 | 56.29 | 10.97 | QP |
| 0.430 | 44.44 | 10.25 | 58.00 | 13.56 | QP |
| 0.675 | 41.97 | 10.22 | 56.00 | 14.03 | QP |
| 0.735 | 40.80 | 10.21 | 56.00 | 15.20 | QP |
| 0.370 | 43.06 | 10.25 | 59.71 | 16.65 | QP |
| 0.555 | 39.08 | 10.23 | 56.00 | 16.92 | QP |

FCC Part 15B, Class B Page 13 of 19

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

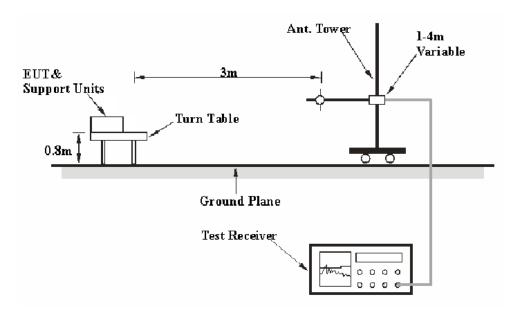
Measurement Uncertainty

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.

Report No.: RSZ120919010-00

Based on CISPR 16-4-2, 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), and the uncertainty will not be taken into consideration for all the test data recorded in the report.

EUT Setup



The radiated emission tests were performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15 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 adapter was connected to a 120 VAC/60 Hz power source.

FCC Part 15B, Class B Page 14 of 19

EMI Test Receiver Setup

According to FCC 15.33 requirements, the EUT system was measured from 30 MHz to 5 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Report No.: RSZ120919010-00

| Frequency Range | RBW | Video B/W | Detector |
|-------------------|---------------------|-----------|----------|
| 30 MHz – 1000 MHz | $100 \mathrm{kHz}$ | 300 kHz | QP |
| 1000 MHz – 25 GHz | 1 MHz | 3 MHz | PK |
| 1000 MHz – 25 GHz | 1 MHz | 10 Hz | Ave. |

Test Procedure

For the radiated emissions test, the adapter was connected to AC floor outlet.

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

The data was recorded in Quasi-peak detection mode for frequency range of 30 MHz to 1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|--------------------|----------|---------------|---------------------|-------------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101122 | 2012-08-08 | 2013-08-07 |
| HP | Amplifier | 8447E | 1937A01046 | 2011-11-24 | 2012-11-23 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-2 | 2011-11-28 | 2012-11-27 |
| SUPER ULTRA | Amplifier | ZVA-213+ | N/A | 2011-11-24 | 2012-11-23 |
| Sunol Sciences | Horn Antenna | DRH-118 | A052304 | 2011-12-01 | 2012-11-30 |
| Rohde & Schwarz | Signal Analyzer | FSIQ26 | 8386001028 | 2011-11-24 | 2012-11-23 |
| Rohde & Schwarz | Auto test Software | EMC32 | V6.30 | - | - |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed using suitable standards traceable to national primary standards and international system of units (SI).

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

FCC Part 15B, Class B Page 15 of 19

Test Results Summary

According to the data in the following table, the worst margin reading is below:

3.1 dB at 622.076550 MHz in the Vertical polarization (powered by adapter)

Report No.: RSZ120919010-00

Test Data

Environmental Conditions

| Temperature: | 25 ℃ |
|--------------------|-----------|
| Relative Humidity: | 56 % |
| ATM Pressure: | 100.0 kPa |

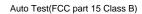
The testing was performed by Lebron Wang on 2012-09-26.

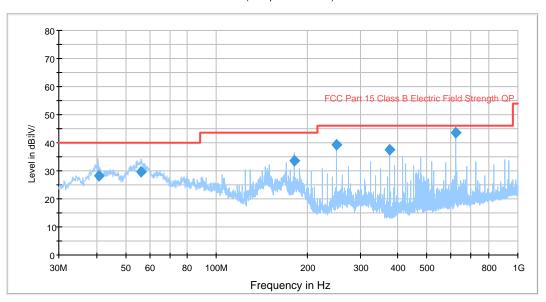
Test Mode: Talking/ Data transferring

FCC Part 15B, Class B
Page 16 of 19

Below 1 GHz:

Powered by adapter



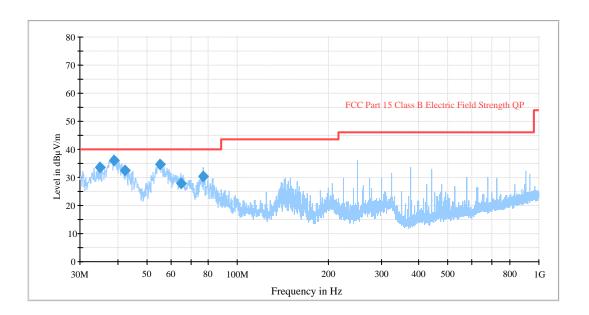


| Frequency (MHz) | Corrected Amplitude (dBµV/m) | Antenna Height (cm) | Ant. Polarity (H/V) | Turntable Position (degree) | Correction Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|------------------------------------|---------------------------|---------------------------|-----------------------------------|--------------------------------|----------------|----------------|
| 622.076550 | 42.9 | 105.0 | V | 218.0 | -8.3 | 46.0 | 3.1* |
| 181.447400 | 33.6 | 152.0 | Н | 331.0 | -16.1 | 43.5 | 6.4 |
| 249.993900 | 39.2 | 122.0 | Н | 229.0 | -15.8 | 46.0 | 6.8 |
| 375.002150 | 37.6 | 152.0 | V | 170.0 | -12.9 | 46.0 | 8.4 |
| 56.214350 | 29.6 | 179.0 | V | 7.0 | -20.9 | 40.0 | 10.4 |
| 40.867650 | 28.3 | 106.0 | V | 182.0 | -15.0 | 40.0 | 11.7 |

^{*}Within measurement uncertainty!

FCC Part 15B, Class B Page 17 of 19

Powered by PoE:



| Frequency (MHz) | Corrected Amplitude (dBµV/m) | Antenna Height (cm) | Ant. Polarity (H/V) | Turntable Position (degree) | Correction Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|------------------------------------|---------------------------|---------------------------|-----------------------------------|--------------------------------|-------------------|----------------|
| 38.891750 | 36.0 | 106.0 | V | 4.0 | -13.5 | 40.0 | 4.0 |
| 55.424500 | 34.6 | 140.0 | V | 3.0 | -20.9 | 40.0 | 5.4 |
| 34.901375 | 33.5 | 105.0 | V | 21.0 | -10.6 | 40.0 | 6.5 |
| 42.433875 | 32.5 | 107.0 | V | 3.0 | -16.1 | 40.0 | 7.5 |
| 77.158750 | 30.4 | 106.0 | V | 3.0 | -20.2 | 40.0 | 9.6 |
| 65.059875 | 27.7 | 104.0 | V | 9.0 | -20.7 | 40.0 | 12.3 |

FCC Part 15B, Class B Page 18 of 19

Above 1 GHz:

Powered by adapter:

| Frequency (MHz) | Receiver | | Turntable | Rx Antenna | | Corrected | Corrected | FCC Part 15B | |
|--------------------|----------------|-----------------------|-----------|------------|----------------|-------------|----------------------|------------------|-------------|
| | Reading (dBµV) | Detector (PK/QP/Ave.) | Degree | Height (m) | Polar (H/V) | Factor (dB) | Amplitude (dBμV/m | Limit (dBµV/m | Margin (dB) |
| 2492.9 | 26.43 | Ave. | 113 | 1.2 | Н | 7.21 | 33.64 | 54 | 20.36 |
| 2492.9 | 25.81 | Ave. | 73 | 1.1 | V | 7.21 | 33.02 | 54 | 20.98 |
| 1551.1 | 49.83 | PK | 25 | 1.0 | V | 1.70 | 51.53 | 74 | 22.47 |
| 1651.3 | 26.14 | Ave. | 98 | 1.1 | Н | 1.77 | 27.91 | 54 | 26.09 |
| 1651.3 | 45.43 | PK | 98 | 1.1 | Н | 1.77 | 47.20 | 74 | 26.80 |
| 1551.1 | 25.11 | Ave. | 25 | 1.0 | V | 1.70 | 26.81 | 54 | 27.19 |
| 2492.9 | 39.27 | PK | 73 | 1.1 | V | 7.21 | 46.48 | 74 | 27.52 |
| 2492.9 | 38.59 | PK | 113 | 1.2 | Н | 7.21 | 45.80 | 74 | 28.20 |

Report No.: RSZ120919010-00

Powered by PoE:

| Frequency (MHz) | Receiver | | Turntable | Rx Antenna | | Corrected | Corrected | FCC Part 15B | |
|--------------------|----------------|-----------------------|-----------|------------|----------------|-------------|----------------------|------------------|----------------|
| | Reading (dBµV) | Detector (PK/QP/Ave.) | Degree | Height (m) | Polar (H/V) | Factor (dB) | Amplitude (dBμV/m | Limit (dBµV/m | Margin (dB) |
| 2492.9 | 25.33 | Ave. | 122 | 1.3 | Н | 7.21 | 32.54 | 54 | 21.46 |
| 2492.9 | 24.83 | Ave. | 53 | 1.0 | V | 7.21 | 32.04 | 54 | 21.96 |
| 1651.3 | 50.26 | PK | 87 | 1.2 | V | 1.77 | 52.03 | 74 | 21.97 |
| 2492.9 | 42.49 | PK | 53 | 1.0 | V | 7.21 | 49.70 | 74 | 24.30 |
| 1651.3 | 47.45 | PK | 13 | 1.1 | Н | 1.77 | 49.22 | 74 | 24.78 |
| 1651.3 | 26.31 | Ave. | 13 | 1.1 | Н | 1.77 | 28.08 | 54 | 25.92 |
| 1651.3 | 24.98 | Ave. | 87 | 1.2 | V | 1.77 | 26.75 | 54 | 27.25 |
| 2492.9 | 36.57 | PK | 122 | 1.3 | Н | 7.21 | 43.78 | 74 | 30.22 |

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

FCC Part 15B, Class B Page 19 of 19