



FCC PART 15.247

TEST REPORT

For

Jiangsu SEUIC Technology Co.,Ltd

No23.Wenzhu Road. Yuhuatai District. Nanjing. Jiangsu China

FCC ID: 2AC68-AUTOID6

| | |
|--|---------------------------------|
| Report Type: Original Report | Product Type: AUTOID6 |
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| Report Number: RSH140814050-00C | |
| Report Date: 2014-10-24 | |
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Jiangsu SEUIC Technology Co.,Ltd*'s product, model number: *AUTOID6 (FCC ID: 2AC68-AUTOID6) or ("EUT")* in this report is a *AUTOID6*, rated input voltage: DC 5V from adapter or DC 3.7V from lithium battery.

The measurement please refer below:

| Description | Serial Number | Length (cm) | Width (cm) | High (cm) |
|-------------------------------|---------------|-------------|------------|-----------|
| RFID antenna on the back side | 140814050-1 | 15.6 | 8.1 | 5.6 |
| RFID antenna on the top side | 140814050-2 | 19.7 | 8.4 | 5.6 |

Adapter information:

Model: FJ-SW0503000U

Input: AC 100-240V, 50/60Hz, 0.6A max

Output: DC 5V, 3000mA

**Two type of RFID antenna employed for this product, please refer to the EUT photos, the antenna type don't effected the test results except the radiation test, All measurement and test data in this report was gathered from production sample serial number: 140814050-1, except radiation test for two type of sample .The EUT was received on 2014-08-21*

Objective

This report is prepared on behalf of *Jiangsu SEUIC Technology Co.,Ltd* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules.

The tests were performed in order to determine the EUT compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part15C DTS submissions with FCC ID: 2AC68-AUTOID6.
FCC Part15C DSS submissions with FCC ID: 2AC68-AUTOID6.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, 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 emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). 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. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) 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 February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FINAL

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

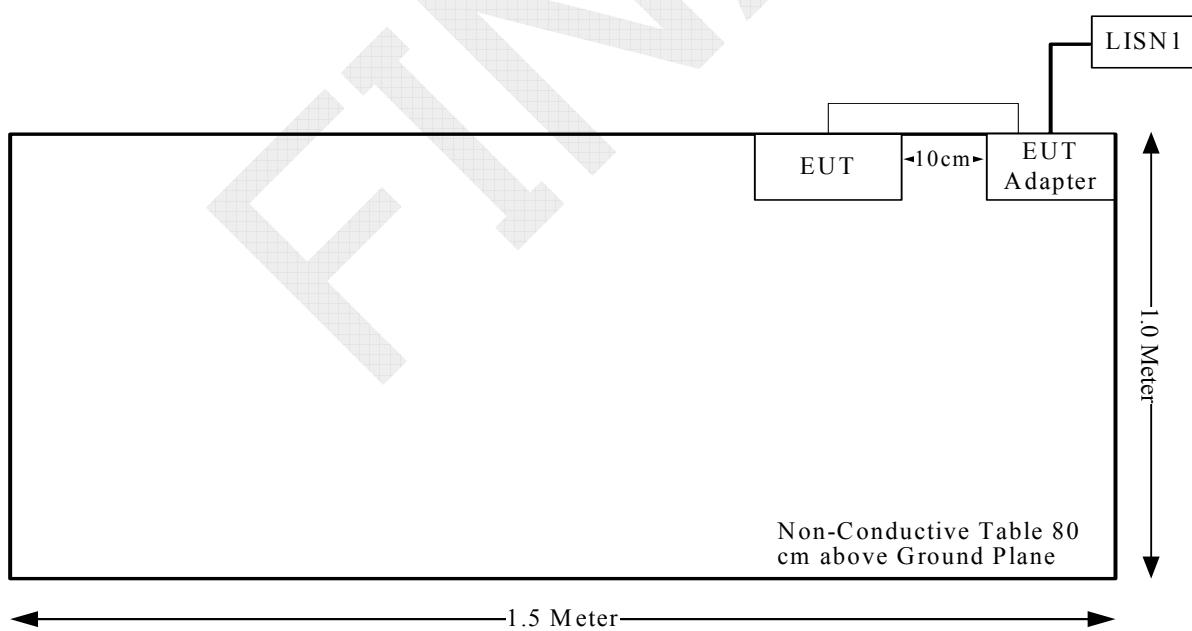
99 hopping channels are provided by manufacturer, and EUT was tested with low channel: 902.75 MHz, middle channel: 915.25MHz, and high channel: 927.25MHz.

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 902.75 | 26 | 915.25 |
| 2 | 903.25 | 27 | 915.75 |
| ... | ... | ... | ... |
| ... | ... | ... | ... |
| ... | ... | ... | ... |
| 24 | 914.25 | 49 | 926.75 |
| 25 | 914.75 | 50 | 927.25 |

Equipment Modifications

No modification was made to the EUT.

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|---------------------------------|----------------------------------|------------|
| §15.247 (i), §1.1310, §2.1093 | RF Exposure | Compliance |
| §15.203 | Antenna Requirement | Compliance |
| §15.207 (a) | Conducted Emissions | Compliance |
| §15.205, §15.209, §15.247(d) | Radiated Emissions | Compliance |
| §15.247 (a)(1) | 20 dB Bandwidth | Compliance |
| §15.247(a)(1) | Channel Separation Test | Compliance |
| §15.247(a)(1) | Time of Occupancy (Dwell Time) | Compliance |
| §15.247(a)(1) | Quantity of hopping channel Test | Compliance |
| §15.247(b)(1) | Peak Output Power Measurement | Compliance |
| §15.247(d) | Band Edges | Compliance |

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v05r02:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The maximum peak conducted output power = 20.61 dBm = 115.08mW at 902.75MHz

The time-averaged maximum power = peak power*duty cycle = 115.08mW * (pulse width* hopping numbers per 20s/20s) = 115.08mW*[31.9ms*(4 pulse in 20s per channel*50 channels)/20s] = 36.71mW

$$[(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \\ = 36.71/5 * (\sqrt{0.90275}) = 6.98 < 7.5$$

So the SAR evaluation is not necessary for extremity (hands) use.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT employed two types of integral antenna for RFID. The antenna gain is 2 dBi for the antenna on the back side, and 3dBi for the antenna on the top side, that fulfills the requirement of this section. Please refer to the EUT photos.

Result: Compliance.



FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to $U_{\text{cisp}}_{\text{r}}$ of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than $U_{\text{cisp}}_{\text{r}}$ of Table 1, then:

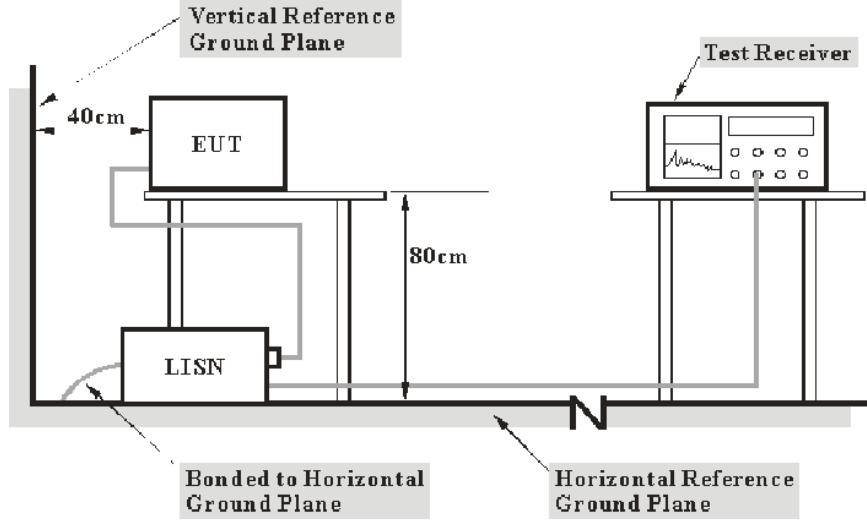
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_{\text{r}})$, exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_{\text{r}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of $U_{\text{cisp}}_{\text{r}}$

| Measurement | $U_{\text{cisp}}_{\text{r}}$ |
|---|------------------------------|
| Conducted disturbance at mains port using AMN (150 kHz to 30 MHz) | 3.4 dB |

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 C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter 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:

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

Test Procedure

During the conducted emission test, the adapter or adapter was connected to the outlet of 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.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

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

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

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|---------|---------------|------------------|----------------------|
| R&S | EMI Test Receiver | ESCS 30 | 830245/006 | 2013-11-20 | 2014-11-20 |
| R&S | L.I.S.N | ESH3-Z5 | 843331/015 | N/A | N/A |
| R&S | Two-line V-network | ENV 216 | 3560.6550.12 | 2014-01-22 | 2015-01-22 |
| R&S | Test Software | EMC32 | Version8.53.0 | N/A | N/A |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

19.0 at 0.670921 MHz in the Neutral conducted mode

Test Data

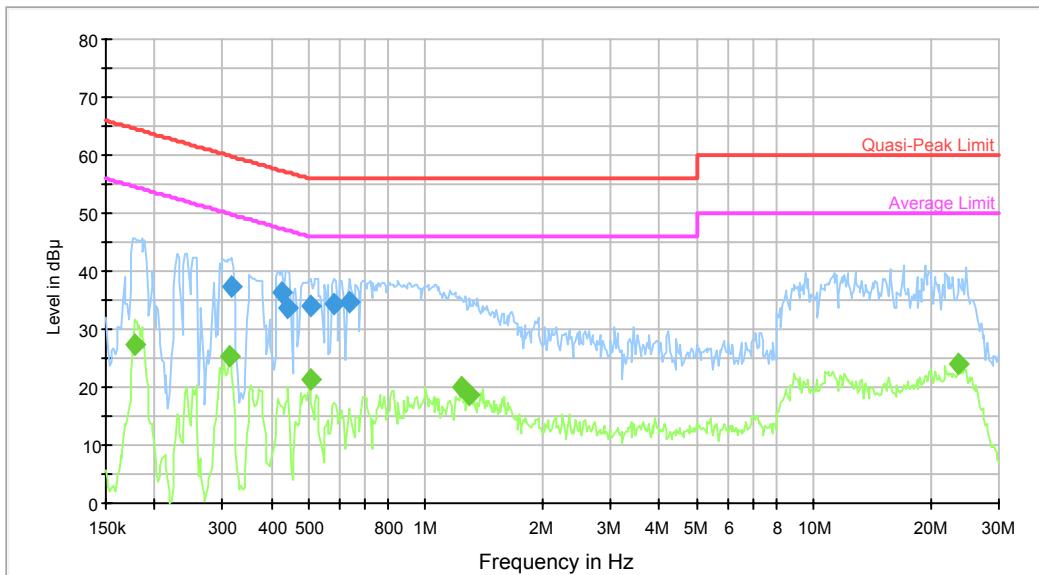
Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 28.1 °C |
| Relative Humidity: | 49 % |
| ATM Pressure: | 100.4 kPa |

The testing was performed by Sevin Li on 2014-08-25.

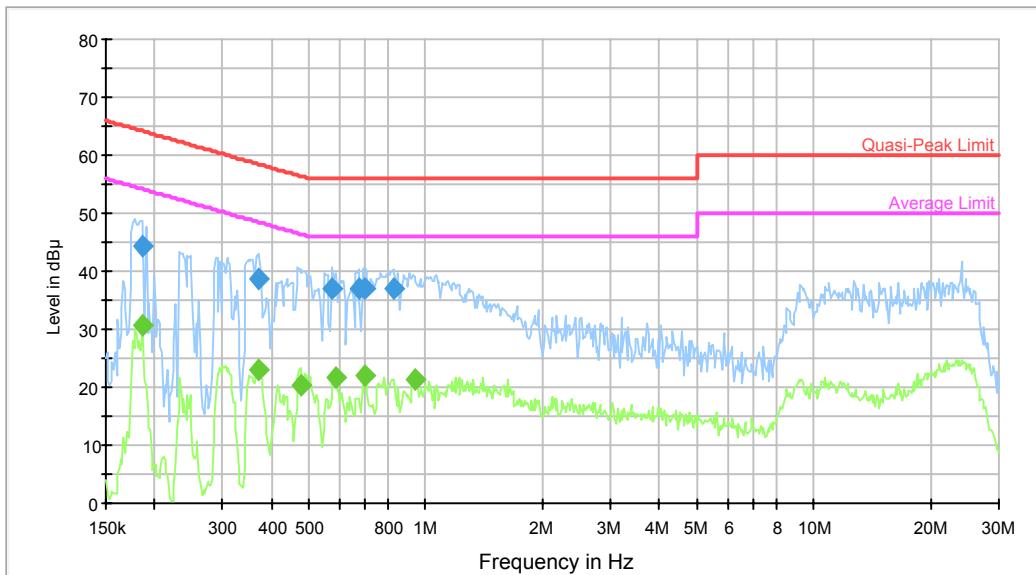
Test Mode: Operating

AC120 V, 60 Hz, Line:



| Frequency (MHz) | QuasiPeak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) | Comment |
|-----------------|------------------------|-----------------|------|------------|-------------|--------------------|------------|
| 0.317235 | 37.4 | 9.000 | L1 | 10.7 | 22.3 | 59.8 | Compliance |
| 0.426011 | 36.5 | 9.000 | L1 | 10.5 | 20.9 | 57.3 | Compliance |
| 0.443327 | 33.8 | 9.000 | L1 | 10.5 | 23.2 | 57.0 | Compliance |
| 0.507637 | 33.9 | 9.000 | L1 | 10.3 | 22.1 | 56.0 | Compliance |
| 0.581275 | 34.3 | 9.000 | L1 | 10.4 | 21.7 | 56.0 | Compliance |
| 0.639600 | 34.7 | 9.000 | L1 | 10.5 | 21.3 | 56.0 | Compliance |

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) | Comment |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|------------|
| 0.177322 | 27.5 | 9.000 | L1 | 10.4 | 27.1 | 54.6 | Compliance |
| 0.312220 | 25.4 | 9.000 | L1 | 10.7 | 24.6 | 49.9 | Compliance |
| 0.503608 | 21.3 | 9.000 | L1 | 10.3 | 24.7 | 46.0 | Compliance |
| 1.239175 | 20.0 | 9.000 | L1 | 10.4 | 26.0 | 46.0 | Compliance |
| 1.289541 | 18.8 | 9.000 | L1 | 10.4 | 27.2 | 46.0 | Compliance |
| 23.633576 | 24.0 | 9.000 | L1 | 10.9 | 26.0 | 50.0 | Compliance |

AC120 V, 60 Hz, Neutral:

| Frequency (MHz) | QuasiPeak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) | Comment |
|-----------------|------------------------|-----------------|------|------------|-------------|--------------------|------------|
| 0.187494 | 44.3 | 9.000 | N | 11.1 | 19.8 | 64.1 | Compliance |
| 0.372042 | 38.5 | 9.000 | N | 10.9 | 19.9 | 58.5 | Compliance |
| 0.576662 | 36.9 | 9.000 | N | 10.4 | 19.1 | 56.0 | Compliance |
| 0.670921 | 37.0 | 9.000 | N | 10.6 | 19.0 | 56.0 | Compliance |
| 0.698191 | 36.9 | 9.000 | N | 10.6 | 19.1 | 56.0 | Compliance |
| 0.825364 | 37.1 | 9.000 | N | 10.5 | 19.0 | 56.0 | Compliance |

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) | Comment |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|------------|
| 0.187494 | 30.7 | 9.000 | N | 11.1 | 23.5 | 54.1 | Compliance |
| 0.372042 | 22.9 | 9.000 | N | 10.9 | 25.6 | 48.5 | Compliance |
| 0.476287 | 20.5 | 9.000 | N | 10.4 | 25.9 | 46.4 | Compliance |
| 0.585926 | 21.6 | 9.000 | N | 10.4 | 24.4 | 46.0 | Compliance |
| 0.698191 | 21.9 | 9.000 | N | 10.6 | 24.1 | 46.0 | Compliance |
| 0.937592 | 21.2 | 9.000 | N | 10.5 | 24.8 | 46.0 | Compliance |

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp}_r of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp}_r of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

30M~200MHz: 5.0 dB

200M~1GHz: 6.2 dB

1G~6GHz: 4.45 dB

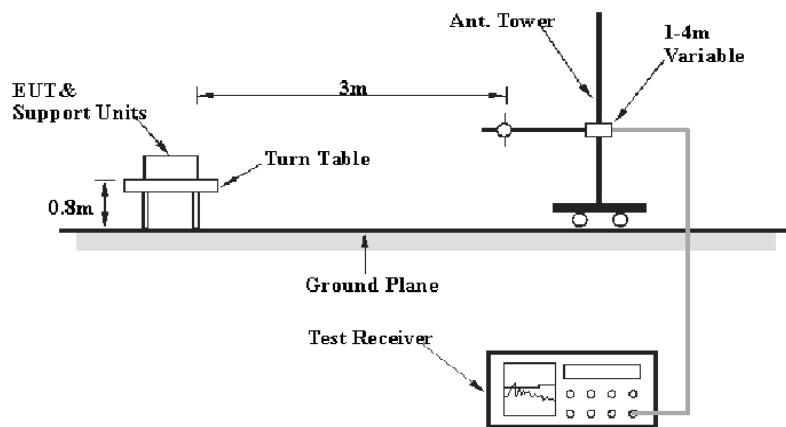
6G~18GHz: 5.23 dB

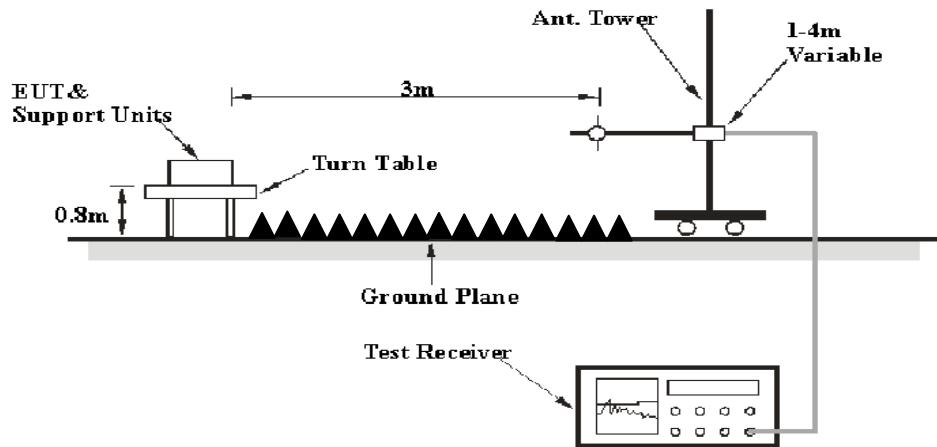
Table 2 – Values of U_{cisp}_r

| Measurement | U_{cisp}_r |
|--|---------------------|
| Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz) | 6.3 dB |
| Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz) | 5.2 dB |
| Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz) | 5.5 dB |

EUT Setup

Below 1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209, and FCC 15.247 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 adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

| Frequency Range | RBW | Video B/W | IF B/W | Detector |
|-------------------|---------|-----------|---------|----------|
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | 120 kHz | QP |
| Above 1 GHz | 1MHz | 3 MHz | / | PK |
| | 1MHz | 10 Hz | / | Ave. |

Test Procedure

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

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, 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 |
|-----------------------|-------------------|-----------------|--------------------|------------------|----------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2014-05-09 | 2015-05-09 |
| Sunol Sciences | Antenna | JB3 | A060611-3 | 2014-07-28 | 2017-07-27 |
| HP | Amplifier | 8447E | 2434A02181 | 2014-09-01 | 2015-09-01 |
| R&S | Spectrum Analyzer | FSEM | DE31388 | 2014-05-09 | 2015-05-09 |
| ETS LINDGREN | Horn Antenna | 3115 | 000 527 35 | 2012-09-06 | 2015-09-06 |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2014-02-19 | 2015-02-19 |
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2014-05-09 | 2015-05-09 |
| Ducommun Technologies | Horn Antenna | ARH-4223-02 | 1007726-01 1304 | 2014-06-16 | 2017-06-15 |
| Quinstar | Amplifier | QLW-18405536-JO | 15964001001 | 2014-09-06 | 2015-09-06 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, 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:

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

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

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, and section 15.205, 15.209 and 15.247, with the worst margin reading of:

1.92 dB at 1830.5 MHz in the Horizontal polarization

Test Data

Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 28.3 °C |
| Relative Humidity: | 50 % |
| ATM Pressure: | 100.3kPa |

*The testing was performed by Sevin Li on 2014-10-22.
Test Mode: Transmitting*

Antenna 1:

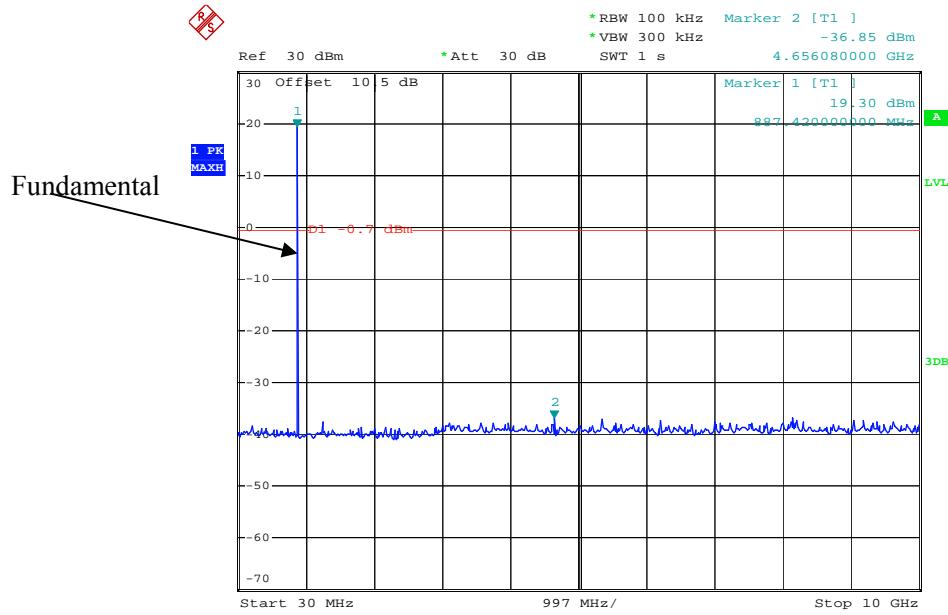
| Frequency (MHz) | Receiver | | Rx Antenna | | Cable loss (dB) | Amplifier Gain (dB) | Corrected Amplitude (dB μ V/m) | FCC 15.247 | |
|----------------------|-------------------------|------------------------|----------------|------------------|-----------------------|---------------------------|--|-------------------------|----------------|
| | Reading (dB μ V) | Detector (PK/QP/AV) | Polar (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) |
| Frequency: 902.75MHz | | | | | | | | | |
| 902.75 | 87.9 | PK | H | 22.95 | 3.70 | 0.00 | 114.55 | N/A | N/A |
| 902.75 | 85.21 | PK | V | 22.95 | 3.70 | 0.00 | 111.86 | N/A | N/A |
| 902.75 | 76.29 | AV | H | 22.95 | 3.70 | 0.00 | 102.94 | N/A | N/A |
| 902.75 | 74.68 | AV | V | 22.95 | 3.70 | 0.00 | 101.33 | N/A | N/A |
| 1805.5 | 62.31 | PK | H | 27.52 | 3.45 | 27.53 | 65.74 | 74.00 | 8.26 |
| 1805.5 | 48.25 | AV | H | 27.52 | 3.45 | 27.53 | 51.68 | 54.00 | 2.32 |
| 2708.25 | 43.75 | PK | H | 31.31 | 4.02 | 27.83 | 51.25 | 74.00 | 22.75 |
| 2708.25 | 34.85 | AV | V | 31.31 | 4.02 | 27.83 | 42.35 | 54.00 | 11.65 |
| 3611 | 43.49 | PK | H | 31.90 | 5.06 | 27.81 | 52.64 | 74.00 | 21.36 |
| 3611 | 33.95 | AV | V | 31.90 | 5.06 | 27.81 | 43.10 | 54.00 | 10.90 |
| 902 | 36.21 | QP | H | 22.94 | 3.71 | 22.17 | 40.69 | 46.00 | 5.31 |
| 902 | 25.45 | QP | V | 22.94 | 3.71 | 22.17 | 29.93 | 46.00 | 16.07 |
| 3012 | 32.02 | PK | H | 30.92 | 7.16 | 27.55 | 42.56 | 74.00 | 31.44 |
| 3012 | 22.48 | AV | V | 30.92 | 7.16 | 27.55 | 33.02 | 54.00 | 20.98 |
| 45.5 | 35.63 | QP | H | 10.74 | 0.89 | 21.42 | 25.84 | 40.00 | 14.16 |
| 40.6 | 34.75 | QP | H | 14.00 | 0.83 | 21.42 | 28.16 | 40.00 | 11.84 |
| Frequency: 915.25MHz | | | | | | | | | |
| 915.25 | 87.85 | PK | H | 22.91 | 3.68 | 0.00 | 114.44 | N/A | N/A |
| 915.25 | 85.29 | PK | V | 22.91 | 3.68 | 0.00 | 111.88 | N/A | N/A |
| 915.25 | 76.41 | AV | H | 22.91 | 3.68 | 0.00 | 103.00 | N/A | N/A |
| 915.25 | 74.26 | AV | V | 22.91 | 3.68 | 0.00 | 100.85 | N/A | N/A |
| 1830.5 | 63.47 | PK | H | 27.68 | 3.57 | 27.43 | 67.28 | 74.00 | 6.72 |
| 1830.5 | 48.27 | AV | H | 27.68 | 3.57 | 27.43 | 52.08 | 54.00 | 1.92 |
| 2745.75 | 45.62 | PK | H | 31.26 | 3.96 | 27.95 | 52.89 | 74.00 | 21.11 |
| 2745.75 | 35.24 | AV | H | 31.26 | 3.96 | 27.95 | 42.51 | 54.00 | 11.49 |
| 3661 | 43.47 | PK | H | 31.99 | 4.83 | 27.64 | 52.65 | 74.00 | 21.35 |
| 3661 | 33.74 | AV | H | 31.99 | 4.83 | 27.64 | 42.92 | 54.00 | 11.08 |
| 2907 | 33.15 | PK | H | 31.03 | 5.85 | 27.49 | 42.54 | 74.00 | 31.46 |
| 2907 | 25.14 | AV | H | 31.03 | 5.85 | 27.49 | 34.53 | 54.00 | 19.47 |
| 45.5 | 35.83 | QP | H | 10.74 | 0.89 | 21.42 | 26.04 | 40.00 | 13.96 |
| 40.6 | 35.27 | QP | H | 14.00 | 0.83 | 21.42 | 28.68 | 40.00 | 11.32 |
| Frequency: 927.25MHz | | | | | | | | | |
| 927.25 | 88.76 | PK | H | 22.98 | 3.70 | 0.00 | 115.44 | N/A | N/A |
| 927.25 | 87.21 | PK | V | 22.98 | 3.70 | 0.00 | 113.89 | N/A | N/A |
| 927.25 | 77.95 | AV | H | 22.98 | 3.70 | 0.00 | 104.63 | N/A | N/A |
| 927.25 | 76.85 | AV | V | 22.98 | 3.70 | 0.00 | 103.53 | N/A | N/A |
| 1854.5 | 62.52 | PK | H | 27.84 | 3.63 | 27.39 | 66.60 | 74.00 | 7.40 |
| 1854.5 | 47.15 | AV | H | 27.84 | 3.63 | 27.39 | 51.23 | 54.00 | 2.77 |
| 2781.75 | 44.66 | PK | H | 31.21 | 4.18 | 27.73 | 52.31 | 74.00 | 21.69 |
| 2781.75 | 32.68 | AV | H | 31.21 | 4.18 | 27.73 | 40.33 | 74.00 | 33.67 |
| 3709 | 43.09 | PK | H | 32.08 | 5.02 | 27.37 | 52.81 | 74.00 | 21.19 |
| 3709 | 32.15 | AV | H | 32.08 | 5.02 | 27.37 | 41.87 | 54.00 | 12.13 |
| 928 | 36.22 | QP | H | 23.00 | 3.70 | 22.13 | 40.80 | 46.00 | 5.20 |
| 928 | 35.03 | QP | V | 23.00 | 3.70 | 22.13 | 39.61 | 46.00 | 6.39 |
| 2950 | 33.52 | PK | H | 30.97 | 6.46 | 27.65 | 43.30 | 74.00 | 30.70 |
| 2950 | 24.59 | AV | H | 30.97 | 6.46 | 27.65 | 34.37 | 54.00 | 19.63 |
| 45.5 | 35.26 | QP | H | 10.74 | 0.89 | 21.42 | 25.47 | 40.00 | 14.53 |
| 40.6 | 34.82 | QP | H | 14.00 | 0.83 | 21.42 | 28.23 | 40.00 | 11.77 |

Antenna 2:

| Frequency (MHz) | Receiver | | Rx Antenna | | Cable loss (dB) | Amplifier Gain (dB) | Corrected Amplitude (dB μ V/m) | FCC 15.247 | |
|----------------------|-------------------------|------------------------|----------------|------------------|-----------------------|---------------------------|--|-------------------------|----------------|
| | Reading (dB μ V) | Detector (PK/QP/AV) | Polar (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) |
| Frequency: 902.75MHz | | | | | | | | | |
| 902.75 | 89.36 | PK | H | 22.95 | 3.70 | 0.00 | 116.01 | N/A | N/A |
| 902.75 | 86.21 | PK | V | 22.95 | 3.70 | 0.00 | 112.86 | N/A | N/A |
| 902.75 | 78.48 | AV | H | 22.95 | 3.70 | 0.00 | 105.13 | N/A | N/A |
| 902.75 | 76.54 | AV | V | 22.95 | 3.70 | 0.00 | 103.19 | N/A | N/A |
| 1805.5 | 57.19 | PK | H | 27.52 | 3.45 | 27.53 | 60.62 | 74.00 | 13.38 |
| 1805.5 | 47.24 | AV | H | 27.52 | 3.45 | 27.53 | 50.67 | 54.00 | 3.33 |
| 2708.25 | 46.25 | PK | H | 31.31 | 4.02 | 27.83 | 53.75 | 74.00 | 20.25 |
| 2708.25 | 37.24 | AV | H | 31.31 | 4.02 | 27.83 | 44.74 | 54.00 | 9.26 |
| 3611 | 38.21 | PK | H | 31.90 | 5.06 | 27.81 | 47.36 | 74.00 | 26.64 |
| 3611 | 28.47 | AV | H | 31.90 | 5.06 | 27.81 | 37.62 | 54.00 | 16.38 |
| 902 | 35.02 | QP | H | 22.94 | 3.71 | 22.17 | 39.50 | 46.00 | 6.50 |
| 902 | 34.36 | QP | V | 22.94 | 3.71 | 22.17 | 38.84 | 46.00 | 7.16 |
| 3010 | 39.02 | PK | H | 30.92 | 7.22 | 27.55 | 49.60 | 74.00 | 24.40 |
| 3010 | 29.54 | AV | H | 30.92 | 7.22 | 27.55 | 40.12 | 54.00 | 13.88 |
| 45.2 | 36.85 | QP | H | 10.91 | 0.89 | 21.42 | 26.61 | 40.00 | 13.39 |
| 40.3 | 35.41 | QP | H | 14.22 | 0.83 | 21.42 | 28.84 | 40.00 | 11.16 |
| Frequency: 915.25MHz | | | | | | | | | |
| 915.25 | 89.02 | PK | H | 22.91 | 3.68 | 0.00 | 115.61 | N/A | N/A |
| 915.25 | 86.11 | PK | V | 22.91 | 3.68 | 0.00 | 112.70 | N/A | N/A |
| 915.25 | 78.29 | AV | H | 22.91 | 3.68 | 0.00 | 104.88 | N/A | N/A |
| 915.25 | 76.25 | AV | V | 22.91 | 3.68 | 0.00 | 102.84 | N/A | N/A |
| 1830.5 | 58.76 | PK | H | 27.68 | 3.57 | 27.43 | 62.57 | 74.00 | 11.43 |
| 1830.5 | 45.14 | AV | H | 27.68 | 3.57 | 27.43 | 48.95 | 54.00 | 5.05 |
| 2745.75 | 46.13 | PK | H | 31.26 | 3.96 | 27.95 | 53.40 | 74.00 | 20.60 |
| 2745.75 | 34.98 | AV | H | 31.26 | 3.96 | 27.95 | 42.25 | 54.00 | 11.75 |
| 3661 | 43.95 | PK | H | 31.99 | 4.83 | 27.64 | 53.13 | 74.00 | 20.87 |
| 3661 | 32.58 | AV | H | 31.99 | 4.83 | 27.64 | 41.76 | 54.00 | 12.24 |
| 2907 | 38.2 | PK | H | 31.03 | 5.85 | 27.49 | 47.59 | 74.00 | 26.41 |
| 2907 | 30.17 | AV | H | 31.03 | 5.85 | 27.49 | 39.56 | 54.00 | 14.44 |
| 45.2 | 35.99 | QP | H | 10.91 | 0.89 | 21.42 | 26.42 | 40.00 | 13.58 |
| 40.3 | 35.74 | QP | H | 14.22 | 0.83 | 21.42 | 28.92 | 40.00 | 11.08 |
| Frequency: 927.25MHz | | | | | | | | | |
| 927.25 | 89.42 | PK | H | 22.98 | 3.70 | 0.00 | 116.10 | N/A | N/A |
| 927.25 | 87.14 | PK | V | 22.98 | 3.70 | 0.00 | 113.82 | N/A | N/A |
| 927.25 | 78.29 | AV | H | 22.98 | 3.70 | 0.00 | 104.97 | N/A | N/A |
| 927.25 | 77.18 | AV | V | 22.98 | 3.70 | 0.00 | 103.86 | N/A | N/A |
| 1854.5 | 57.98 | PK | H | 27.84 | 3.63 | 27.39 | 62.06 | 74.00 | 11.94 |
| 1854.5 | 47.94 | AV | H | 27.84 | 3.63 | 27.39 | 52.02 | 54.00 | 1.98 |
| 2781.75 | 49.24 | PK | H | 31.21 | 4.18 | 27.73 | 56.89 | 74.00 | 17.11 |
| 2781.75 | 39.47 | AV | H | 31.21 | 4.18 | 27.73 | 47.12 | 54.00 | 6.88 |
| 3709 | 45.21 | PK | H | 32.08 | 5.02 | 27.37 | 54.93 | 74.00 | 19.07 |
| 3709 | 35.77 | AV | H | 32.08 | 5.02 | 27.37 | 45.49 | 54.00 | 8.51 |
| 928 | 37.1 | QP | H | 23.00 | 3.70 | 22.13 | 41.68 | 46.00 | 4.32 |
| 928 | 35.82 | QP | V | 23.00 | 3.70 | 22.13 | 40.40 | 46.00 | 5.60 |
| 2950 | 38.25 | PK | H | 30.97 | 6.46 | 27.65 | 48.03 | 74.00 | 25.97 |
| 2950 | 27.97 | AV | H | 30.97 | 6.46 | 27.65 | 37.75 | 54.00 | 16.25 |
| 45.2 | 36.02 | QP | H | 10.91 | 0.89 | 21.42 | 26.40 | 40.00 | 13.60 |
| 40.3 | 35.64 | QP | H | 14.22 | 0.83 | 21.42 | 29.27 | 40.00 | 10.73 |

Conducted Spurious Emissions at Antenna Port

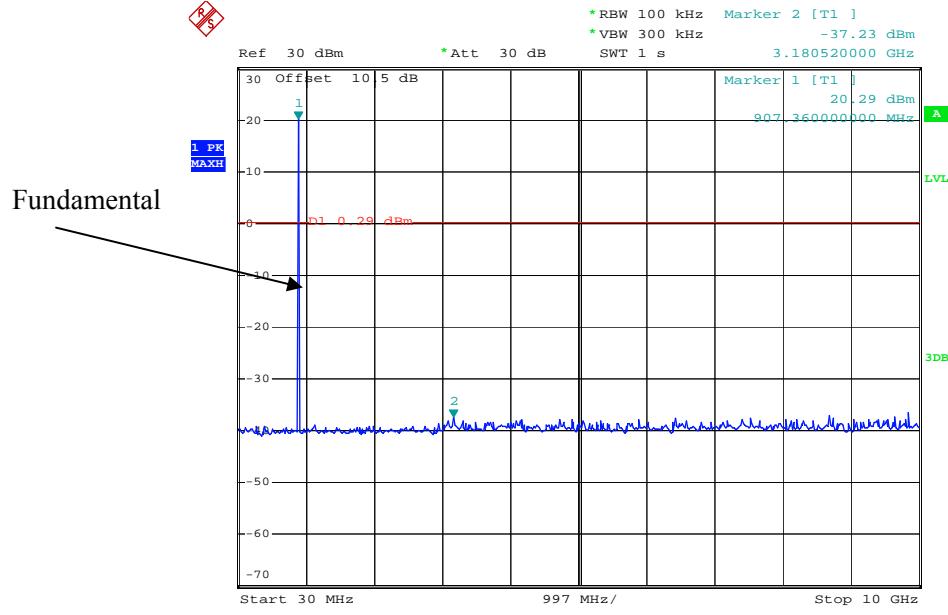
Low Channel



Fundamental

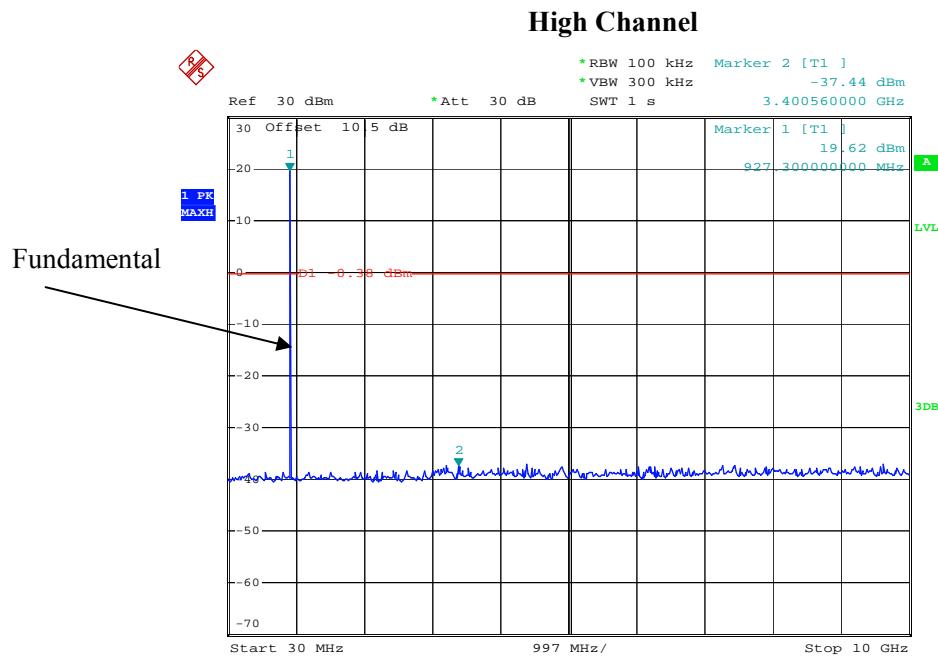
Date: 22.OCT.2014 17:06:45

Middle Channel



Fundamental

Date: 22.OCT.2014 16:56:38



Date: 22.OCT.2014 16:54:04

FIN

FCC §15.247(a) (1) - CHANNEL SEPARATION TEST

Applicable Standard

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2014-05-09 | 2015-05-09 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

Set the EUT in transmitting mode, maxhold the trace, Allow it to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Test Data

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 28 °C |
| Relative Humidity: | 58 % |
| ATM Pressure: | 100.3 kpa |

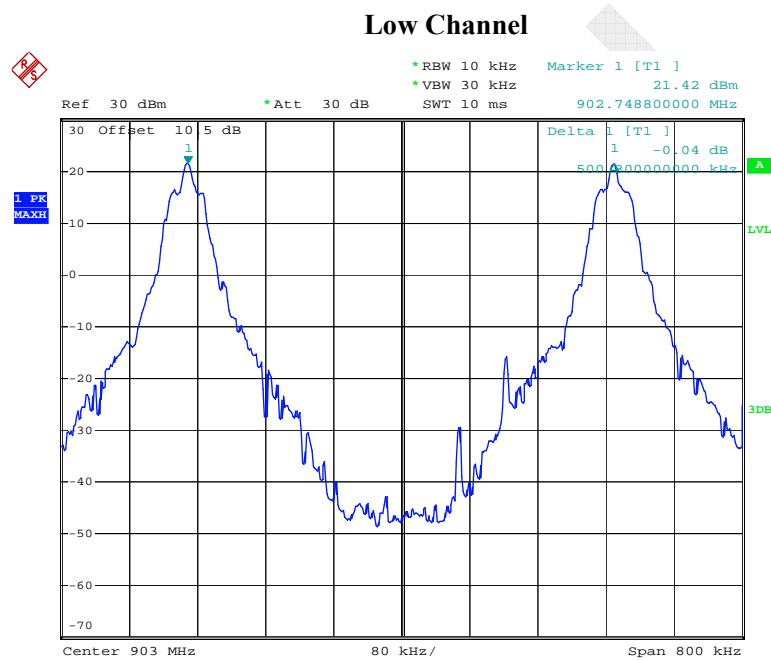
The testing was performed by Sevin Li on 2014-10-22

Test Result: Compliance.

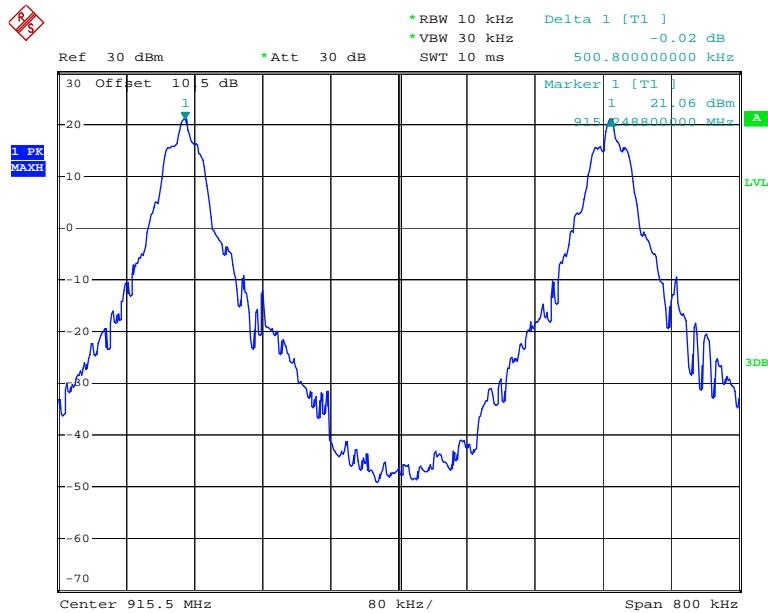
Please refer to following tables and plots

Test Mode: Transmitting

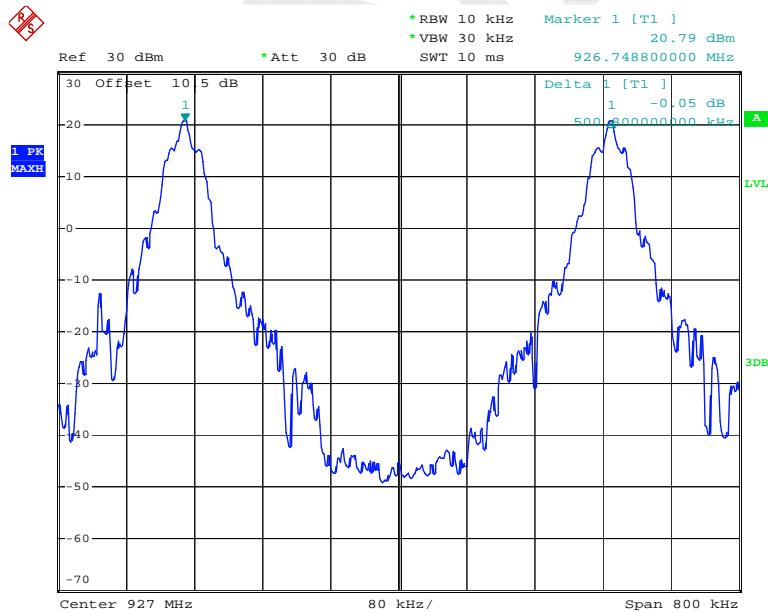
| Channel | Frequency (MHz) | Channel Separation (kHz) | Limit (kHz) | Result |
|----------|-----------------|--------------------------|-------------|--------|
| Low | 902.75 | 500.800 | >85.2 | Pass |
| Adjacent | 903.25 | | | |
| Middle | 915.25 | 500.800 | >87.6 | Pass |
| Adjacent | 915.75 | | | |
| High | 927.25 | 500.800 | >85.2 | Pass |
| Adjacent | 926.75 | | | |



Date: 22.OCT.2014 17:38:15

Middle Channel

Date: 22.OCT.2014 17:41:27

High Channel

Date: 22.OCT.2014 17:43:10

FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING

Applicable Standard

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Procedure

Set the EUT in transmitting mode, maxhold the trace, Allow it to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2014-05-09 | 2015-05-09 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 28 °C |
| Relative Humidity: | 58 % |
| ATM Pressure: | 100.3 kpa |

The testing was performed by Sevin Li on 2014-10-22

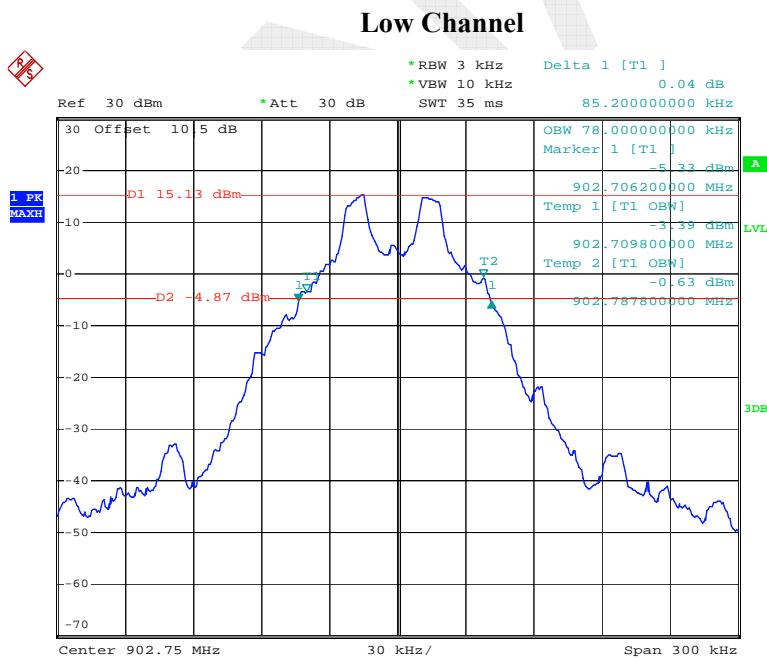
Test Result: Compliance.

Please refer to following tables and plots

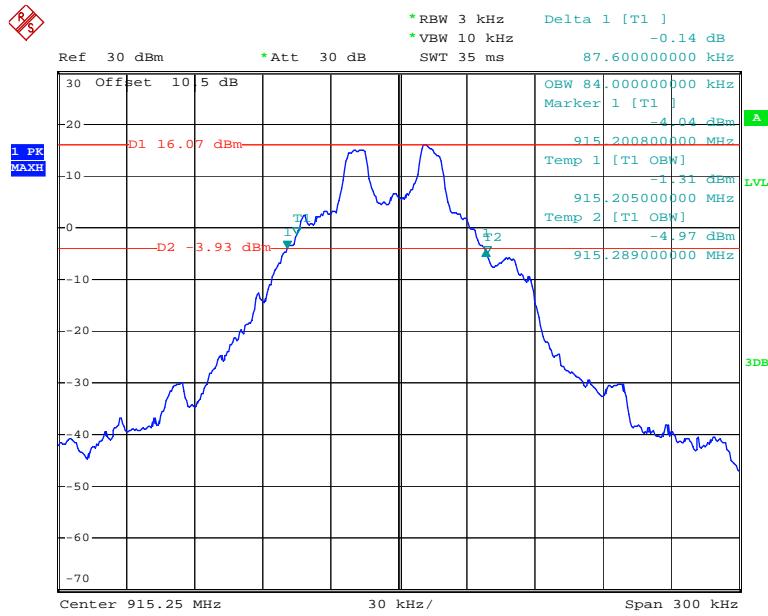
Test Mode: Transmitting

| Channel | Frequency (MHz) | 20 dB Bandwidth (kHz) |
|---------|-----------------|-----------------------|
| Low | 902.75 | 85.20 |
| Middle | 915.25 | 87.60 |
| High | 927.25 | 85.20 |

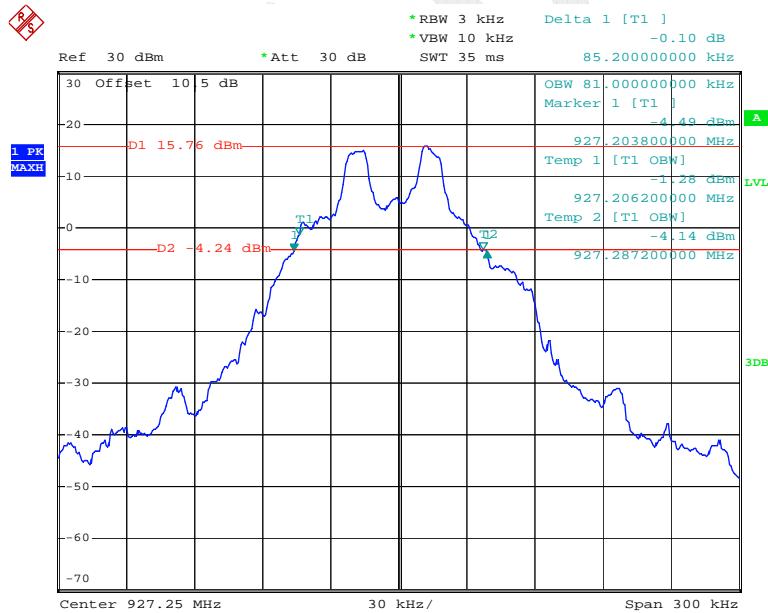
Please refer to the following plots.



Date: 22.OCT.2014 17:02:52

Middle Channel

Date: 22.OCT.2014 17:00:56

High Channel

Date: 22.OCT.2014 16:48:52

FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Procedure

Set the EUT in hopping mode, maxhold the trace, allow it to stabilize.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2014-05-09 | 2015-05-09 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 28 °C |
| Relative Humidity: | 58 % |
| ATM Pressure: | 100.3 kpa |

The testing was performed by Sevin Li on 2014-10-22

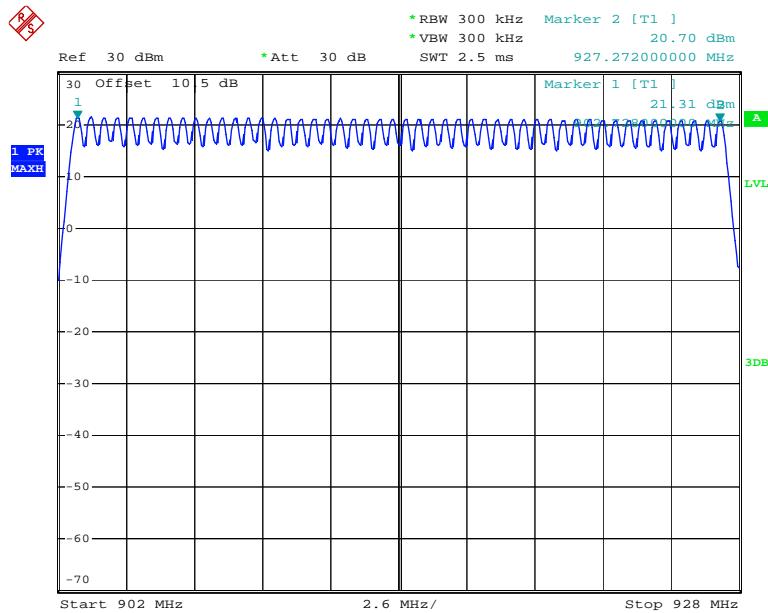
Test Result: Compliance.

Please refer to following tables and plots

Test Mode: Transmitting

| Frequency Range (MHz) | Number of Hopping Channel | Limit |
|-----------------------|---------------------------|-------|
| 2400-2483.5 | 50 | ≥50 |

Number of Hopping Channels



Date: 22.OCT.2014 17:10:15



FCC §15.247(a) (1) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Procedure

The EUT was worked in hopping mode; Spectrum SPAN was set as zero. Sweep time was set as necessary to capture the entire dwell time per hopping channel, the quantity of pulse was get from single sweep. In addition, the time of single pulse was tested.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2014-05-09 | 2015-05-09 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 28 °C |
| Relative Humidity: | 58 % |
| ATM Pressure: | 100.3 kpa |

The testing was performed by Sevin Li on 2014-10-22

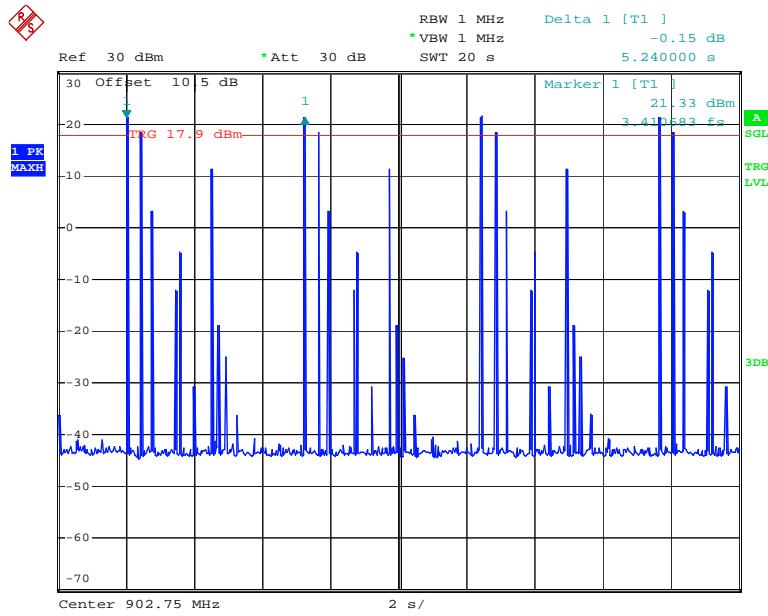
Test Result: Compliance.

Please refer to following tables and plots

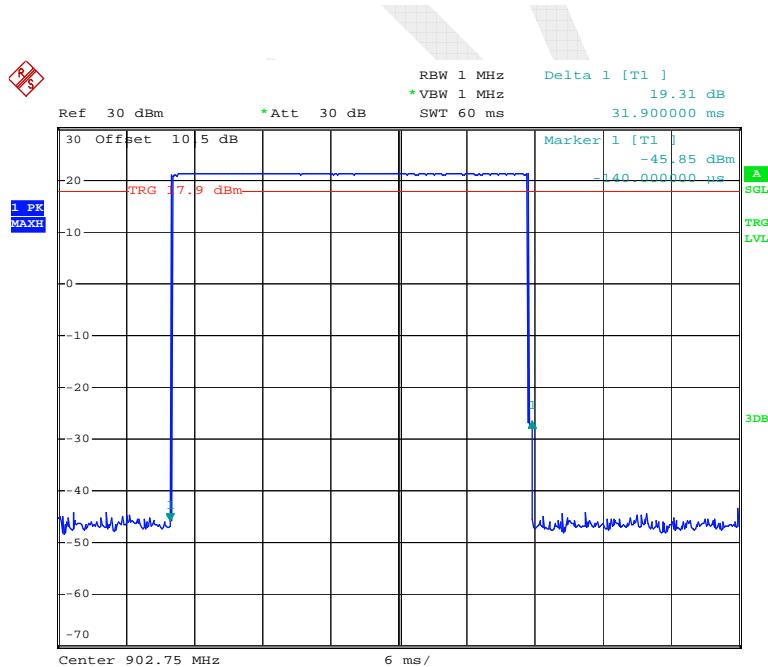
Test Mode: Transmitting

| Channel | Pulse Width (ms) | Hopping Number Per 20s | Dwell Time (s) | Limit (s) | Result |
|---|------------------|------------------------|----------------|-----------|--------|
| Low | 31.900 | 4 | 0.128 | 0.4 | Pass |
| Middle | 31.680 | 4 | 0.127 | 0.4 | Pass |
| High | 31.440 | 4 | 0.126 | 0.4 | Pass |
| Dwell Time= Pulse Width* hopping number per 20s | | | | | |

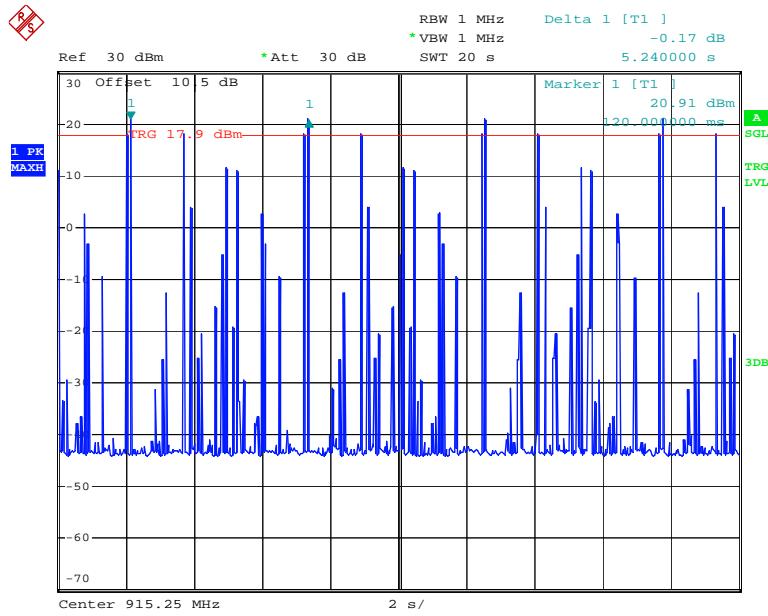
Low Channel



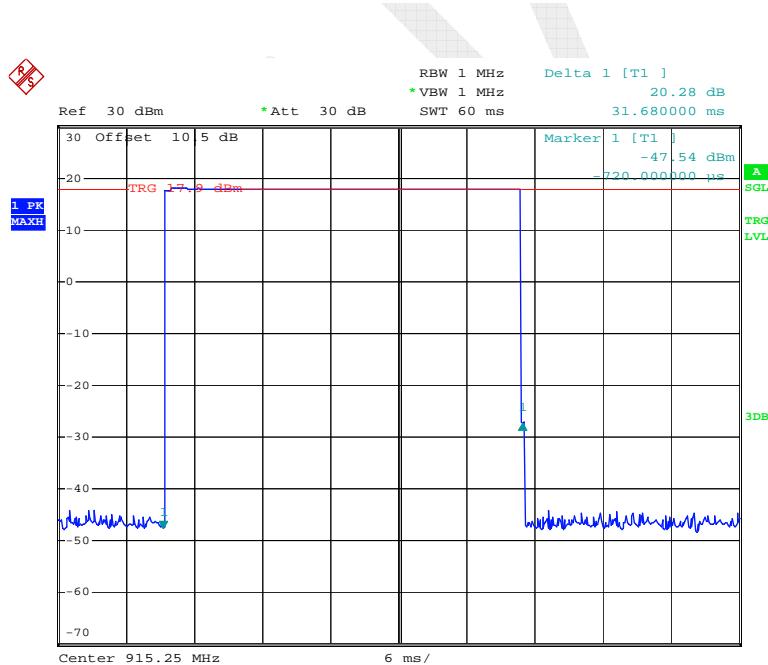
Date: 22.OCT.2014 17:20:28



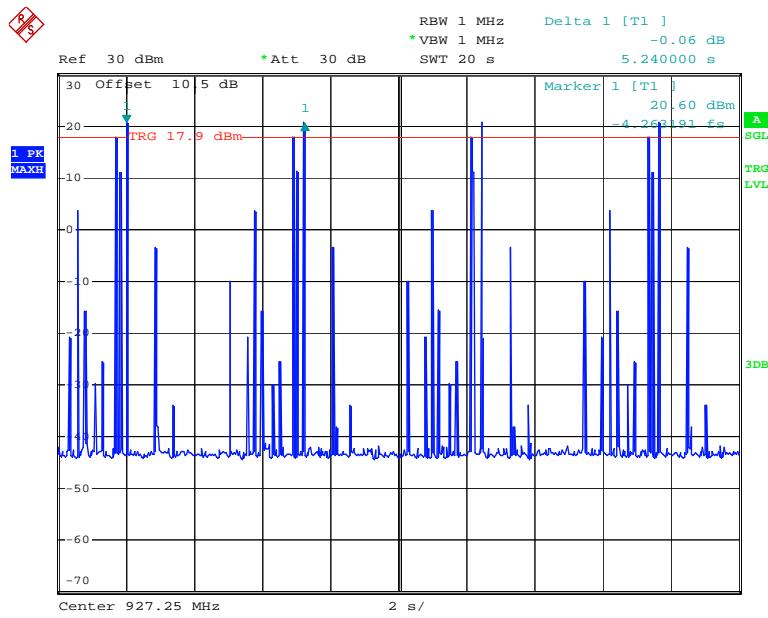
Date: 22.OCT.2014 17:12:19

Middle Channel

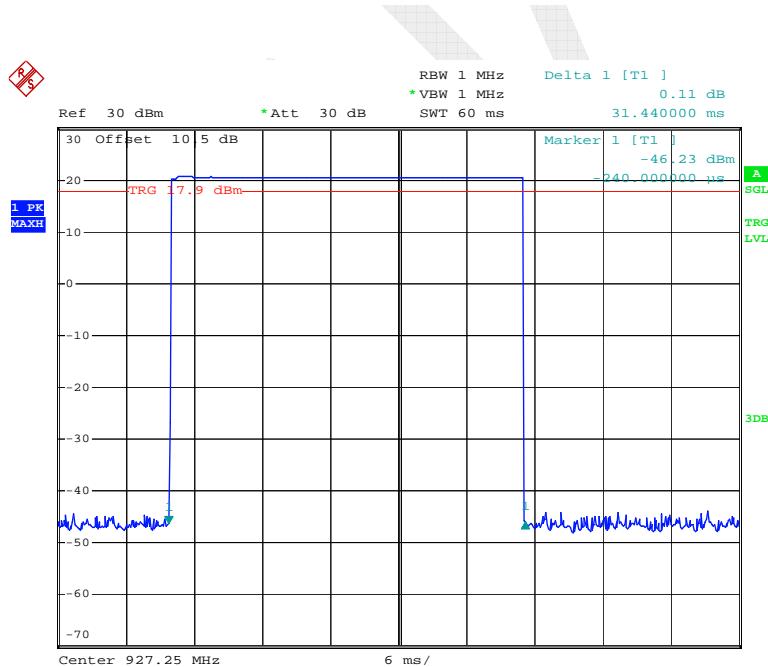
Date: 22.OCT.2014 17:23:15



Date: 22.OCT.2014 17:26:39

High Channel

Date: 22.OCT.2014 17:24:55



Date: 22.OCT.2014 17:26:10

FCC §15.247(b) (2) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (2), For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

Test Procedure

Set the EUT in transmitting mode, maxhold the trace, Allow it to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2014-05-09 | 2015-05-09 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

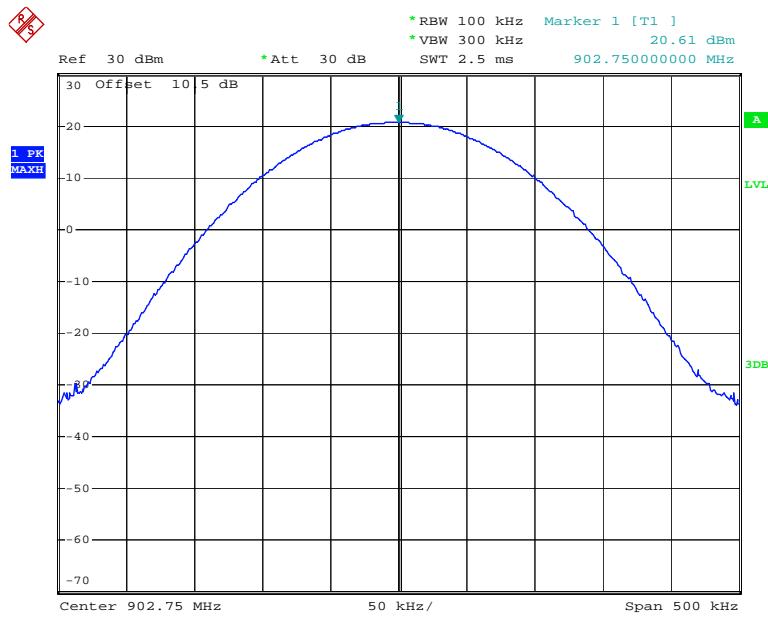
| | |
|--------------------|-----------|
| Temperature: | 28 °C |
| Relative Humidity: | 58 % |
| ATM Pressure: | 100.3 kpa |

The testing was performed by Sevin Li on 2014-10-22

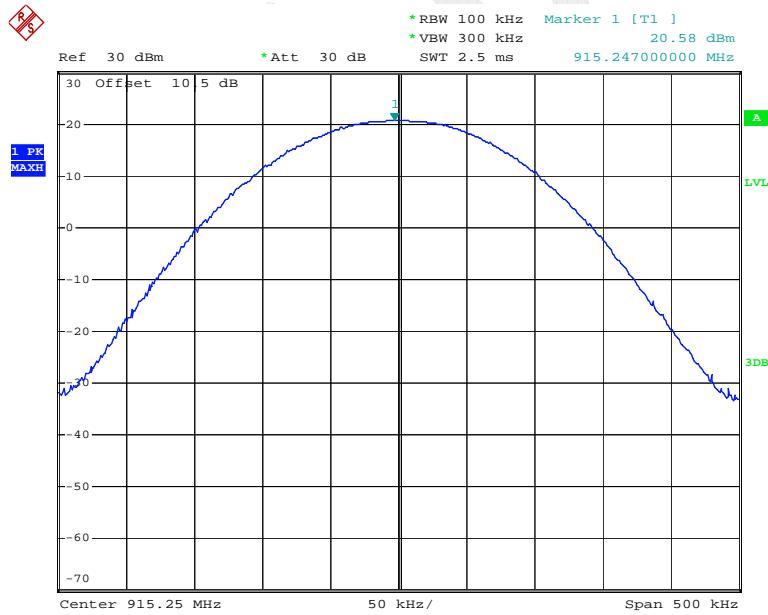
Test Result: Compliance.

Test Mode: Transmitting

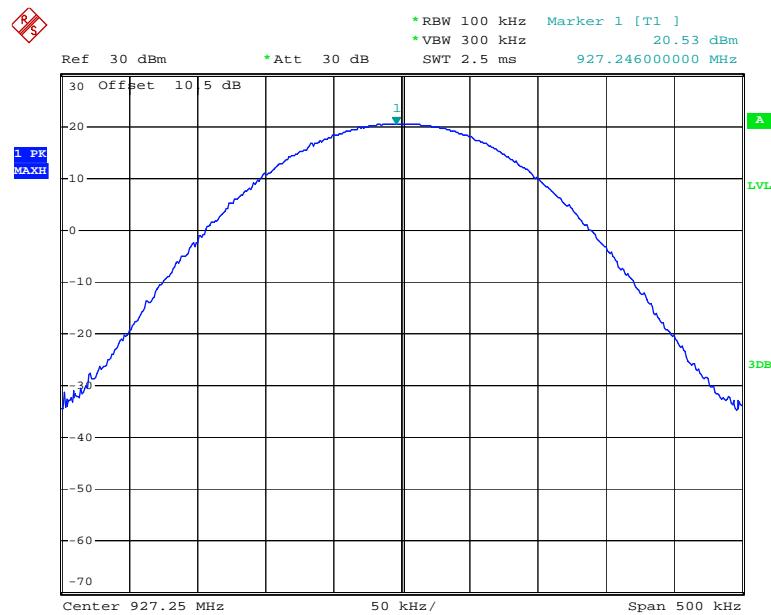
| Channel | Frequency (MHz) | Peak Output Power (dBm) | Limit (dBm) |
|---------|-----------------|-------------------------|-------------|
| Low | 902.75 | 20.61 | 30 |
| Middle | 915.25 | 20.58 | 30 |
| High | 927.25 | 20.53 | 30 |

Peak Output Power, Low Channel

Date: 22.OCT.2014 16:45:12

Peak Output Power, Middle Channel

Date: 22.OCT.2014 16:42:25

Peak Output Power, High Channel

Date: 22.OCT.2014 16:45:54

FIN

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
2. 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.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2014-05-09 | 2015-05-09 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

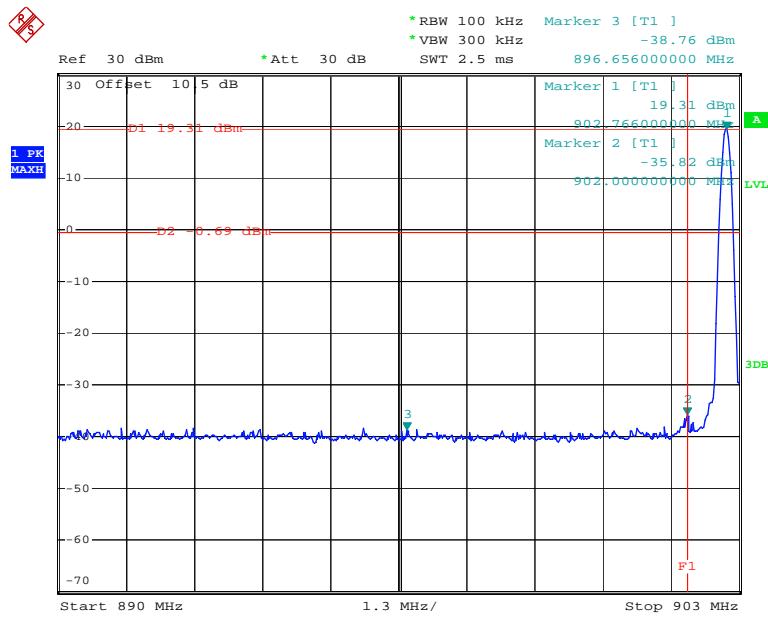
Test Data

Environmental Conditions

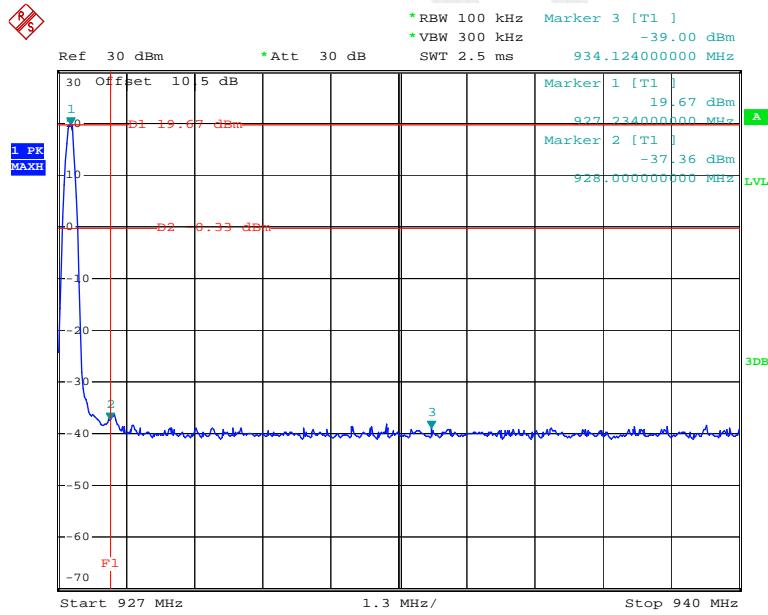
| | |
|--------------------|-----------|
| Temperature: | 28 °C |
| Relative Humidity: | 58 % |
| ATM Pressure: | 100.3 kpa |

The testing was performed by Sevin Li on 2014-10-22.

Test Result: Compliance

Band Edge, Left Side

Date: 22.OCT.2014 17:05:36

Band Edge, Right Side

Date: 22.OCT.2014 16:51:25

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