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Report No.: GTI20140505F-2

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# TEST REPORT

**Product name**.....: Tablet PC

**Trademark** .....: Dragon Touch

**Model/Type reference** .....: A93

**Listed Model(s)** .....: /

**FCC ID**.....: S5V-D09A93

**Test Standards** .....: FCC Per 47 CFR 2.1093(d)

**Applicant** .....: Proexpress Distributor LLC

**Address of applicant** .....: 15726 Crabbs Branch Way, Derwood, MD 20855 USA

**Date of Receipt** .....: Oct. 27, 2014

**Date of Test Date**.....: Oct. 27, 2014 – Nov. 12, 2014

**Data of issue.** .....: Nov. 13, 2014

|                    |               |
|--------------------|---------------|
| <b>Test result</b> | <b>Pass *</b> |
|--------------------|---------------|

\* In the configuration tested, the EUT complied with the standards specified above

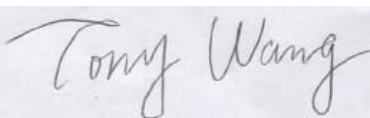
| GENERAL DESCRIPTION OF EUT |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Equipment:                 | Tablet PC                                                                                         |
| Model Name:                | A93                                                                                               |
| Manufacturer:              | SHENZHEN BAMBOO FOREST TECHNOLOGY CO.,LTD.                                                        |
| Manufacturer Address:      | Room 702,Rujun Building, Banxuegang Rd., Bantian subdistrict, Longgang ,Shenzhen Guangdong, China |
| Power Source:              | DC 3.7V form Li-ion battery                                                                       |
| Power Rating:              | 5V---2000mA                                                                                       |

Testing Engineer :



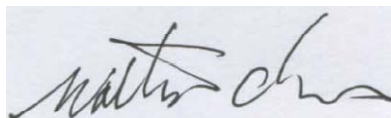
(Allen Wang)

Reviewed By: :



(Tony Wang)

Approved Signatory :



(Walter Chen)

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## 1. SUMMARY

### 1.1. Test Facility

#### 1.3.1 Address of the test laboratory

**Shenzhen GTI Technology Co., Ltd**

1F, 2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District, Shenzhen, Guangdong, China

#### 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

**IC Registration No.: 9783A**

The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Aug, 2011.

**FCC-Registration No.: 214666**

Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 214666, Sep 19, 2011

### 1.2. Statement of the measurement uncertainty

| Test Items                  | Measurement Uncertainty | Notes |
|-----------------------------|-------------------------|-------|
| Transmitter power conducted | 0.57 dB                 | (1)   |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 2. GENERAL INFORMATION

### 2.1.Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

|                    |             |
|--------------------|-------------|
| Temperature:       | 15~35°C     |
| Relative Humidity: | 30~60 %     |
| Air Pressure:      | 950~1050mba |

### 2.2.General Description of EUT

|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| Product Name:         | Tablet PC                                                                          |
| Model/Type reference: | A93                                                                                |
| Listed Model(s):      | /                                                                                  |
| Power supply:         | DC 3.7V form Li-ion battery                                                        |
| Adapter information:  | Model:HLT-003-0502000U<br>Input: AC 100-240V 50/60Hz 0.35A<br>Output:5.0V---2000mA |
| Hardware version:     | E98B_MB_U V2.2                                                                     |
| Software version:     | Android 4.2.2                                                                      |
| <b>WIFI :</b>         |                                                                                    |
| Supported type:       | 802.11b/802.11g/802.11n(H20)/802.11n(H40)                                          |
| Modulation:           | 802.11b: DSSS<br>802.11g/802.11n(H20)/802.11n(H40):OFDM                            |
| Operation frequency:  | 802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz<br>802.11n(H40): 2422MHz~2452MHz     |
| Channel number:       | 802.11b/802.11g/802.11n(H20): 11 802.11n(H40): 7                                   |
| Channel separation:   | 5MHz                                                                               |
| Antenna type:         | FPCB Antenna                                                                       |
| Antenna gain:         | 2.0 dBi                                                                            |

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### 3. Method of measurement

#### Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §RSS-102, Devices that have a radiating element normally operating at separation distances greater than 20 cm between the user and the device shall undergo an RF exposure evaluation. SAR evaluation may be performed in lieu of an RF exposure evaluation for devices operating below 6 GHz with a separation distance of greater than 20 cm between the user and the device.

According to §1.1310, KDB447498 and §2.1093 RF exposure is required.

OET Bulletin 65 Supplement C [June 2001]: Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields

#### Limit

According to KDB447498 D01 General RF Exposure Guidance v05r02 Appendix A: SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz  | 5  | 10 | 15  | 20  | 25  | mm                                         |
|------|----|----|-----|-----|-----|--------------------------------------------|
| 150  | 39 | 77 | 116 | 155 | 194 | SAR Test<br>Exclusion<br>Threshold<br>(mW) |
| 300  | 27 | 55 | 82  | 110 | 137 |                                            |
| 450  | 22 | 45 | 67  | 89  | 112 |                                            |
| 835  | 16 | 33 | 49  | 66  | 82  |                                            |
| 900  | 16 | 32 | 47  | 63  | 79  |                                            |
| 1500 | 12 | 24 | 37  | 49  | 61  |                                            |
| 1900 | 11 | 22 | 33  | 44  | 54  |                                            |
| 2450 | 10 | 19 | 29  | 38  | 48  |                                            |
| 3600 | 8  | 16 | 24  | 32  | 40  |                                            |
| 5200 | 7  | 13 | 20  | 26  | 33  |                                            |
| 5400 | 6  | 13 | 19  | 26  | 32  |                                            |
| 5800 | 6  | 12 | 19  | 25  | 31  |                                            |

## RF Exposure Evaluation

From the peak EUT RF output power and power drift from Tune-up Procedure provide by manufacturer as following states:

### Manufacturing tolerance

#### WIFI

| 802.11b              |            |           |            |
|----------------------|------------|-----------|------------|
| Test Channel         | Channel 01 | Chanel 06 | Channel 11 |
| Target (dBm)         | 9.00       | 9.00      | 9.00       |
| Tolerance $\pm$ (dB) | 0.50       | 0.50      | 0.50       |
| 802.11g              |            |           |            |
| Target (dBm)         | 8.50       | 8.50      | 8.50       |
| Tolerance $\pm$ (dB) | 0.50       | 0.50      | 0.50       |
| 802.11n(HT20)        |            |           |            |
| Target (dBm)         | 8.50       | 8.50      | 8.50       |
| Tolerance $\pm$ (dB) | 0.50       | 0.50      | 0.50       |
| 802.11n(HT40)        |            |           |            |
| Test Channel         | Channel 03 | Chanel 06 | Channel 09 |
| Target (dBm)         | 8.50       | 8.50      | 8.50       |
| Tolerance $\pm$ (dB) | 0.50       | 0.50      | 0.50       |

### Evaluation Results

#### For 802.11b

| Test Frequency (MHz) | Output Power (dBm) | Output Power including Power Drift (dBm) | Output Power including Power Drift (mW) | SAR Test Exclusion Threshold (mW) | Verdict |
|----------------------|--------------------|------------------------------------------|-----------------------------------------|-----------------------------------|---------|
| 2412                 | 9.43               | 9.50                                     | 8.91                                    | 10.00                             | PASS    |
| 2437                 | 9.28               | 9.50                                     | 8.91                                    | 10.00                             | PASS    |
| 2462                 | 9.17               | 9.50                                     | 8.91                                    | 10.00                             | PASS    |

#### For 802.11g

| Test Frequency (MHz) | Output Power (dBm) | Output Power including Power Drift (dBm) | Output Power including Power Drift (mW) | SAR Test Exclusion Threshold (mW) | Verdict |
|----------------------|--------------------|------------------------------------------|-----------------------------------------|-----------------------------------|---------|
| 2412                 | 8.64               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |
| 2437                 | 8.74               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |
| 2462                 | 8.64               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |

#### For 802.11n (HT20)

| Test Frequency (MHz) | Output Power (dBm) | Output Power including Power Drift (dBm) | Output Power including Power Drift (mW) | SAR Test Exclusion Threshold (mW) | Verdict |
|----------------------|--------------------|------------------------------------------|-----------------------------------------|-----------------------------------|---------|
| 2412                 | 8.55               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |
| 2437                 | 8.47               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |
| 2462                 | 8.76               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |

**For 802.11n (HT40)**

| Test Frequency (MHz) | Output Power (dBm) | Output Power including Power Drift (dBm) | Output Power including Power Drift (mW) | SAR Test Exclusion Threshold (mW) | Verdict |
|----------------------|--------------------|------------------------------------------|-----------------------------------------|-----------------------------------|---------|
| 2422                 | 8.01               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |
| 2437                 | 8.11               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |
| 2452                 | 8.15               | 9.00                                     | 7.94                                    | 10.00                             | PASS    |

**Conclusion**

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v05r02.

\*\*\*\*\*THE END\*\*\*\*\*