



# **FCC 47 CFR PART 15 SUBPART B**

## **TEST REPORT**

*For*

**Applicant : BYD Precision Manufacture Co., Ltd.**

**Address : Building A3-1F, A1-3F, No.3001, Baohe Road,  
Baolong Industry Zone, Longgang, Shenzhen , China**

**Product Name : Notebook Computer**

**Model Name : S101-L, S101-F**

**Brand Name : N/A**

**FCC ID : XG3-BYDS101FL**

**Report No. : SZSTS090602F1**

**Date of Issue : June 12, 2009**

**Issued by : Shenzhen Super Test Service Technology Co., Ltd.**

**Address : No. 813 Unit A, HuaMeiJu Business Center, Xinhua Road,  
Bao'an District, Shenzhen, China**

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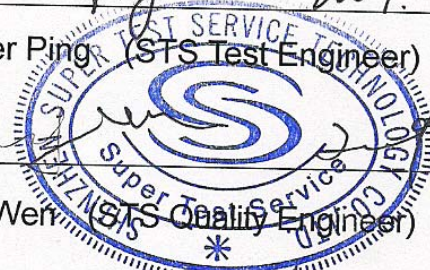
**1. VERIFICATION OF CONFORMITY**

**Equipment Under Test:** Notebook Computer  
**Brand Name:** N/A  
**Model Number:** S101-L, S101-F  
**FCC ID:** XG3-BYDS101FL  
**Applicant:** BYD Precision Manufacture Co., Ltd.  
 Building A3-1F、 A1-3F, No.3001,Baohe Road,  
 Baolong Industry Zone, Longgang, Shenzhen , China  
**Manufacturer:** Huizhou BYD Electronic Co., Ltd.  
 Xiangshui River, Economic Development Zone, Daya Bay, Huizhou,  
 GuangDong, China  
**Technical Standards:** FCC Part 15 B  
**File Number:** SZSTS090602F1  
**Date of test:** June 8,2009 -June 12, 2009  
**Deviation:** None  
**Condition of Test Sample:** Normal  
**Test Result:** PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested By Petter Ping 2009. 6. 12.  
 Petter Ping (STS Test Engineer) June 12, 2009  
 Checked By July Wern 6.12  
 July Wern (STS Quality Engineer) June 12, 2009  
 Authorized By Terry Yang June 12, 2009  
 Terry Yang (STS General Manager) June 12, 2009



## 2. GENERAL INFORMATION

### 2.1 PRODUCT INFORMATION

| <b>EUT1- Notebook Computer</b>            |   |
|---|---|
| Description:                              | Notebook Computer   |
| Model Name:                               | S101-L, S101-F  |
| Model Difference description:             | Two models use batteries with different voltage, S101-F 9.5V and S101-L 11.1V, the two types of pieces used in the difference motherboard,the motherboard of S101-F has two more resitence than that of S101-L. |
| Serial No.:                               | N/A   |
| Frequency:                                | 2402 MHz -2480 MHz  |
| <b>Ancillary Equipment – Power Supply</b> |   |
| Description:                              | AC/DC Adapter   |
| Model Name:                               | 0335A1865   |
| Brand Name:                               | N/A   |
| Manufacturer:                             | LI SHAN INTERNATIONAL ENTERPRISE CORP.  |
| Rated Input:                              | AC100-240V, 50/60 Hz, 1.7A  |
| Rated Output:                             | DC 18.5 V, 3.5A   |
| Length DC cable:                          | 300 cm  |
| <b>Ancillary Equipment – Battery</b>      |   |
| Description:                              | Li-ion Battery of Notebook Computer   |
| Model Name:                               | N/A   |
| Brand Name:                               | N/A   |
| Manufacturer:                             | BYD Precision Manufacture Co., Ltd.   |
| Rated Inpcapability:                      | 2200 mA   |

**NOTE:**

1. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

**2.2 OBJECTIVE**

Perform FCC Part 15 Subpart B tests for FCC Marking.

**2.3 TEST STANDARDS AND RESULTS**

Test items and the results are as bellow:

| EMISSION  |         |                    |        |                    |
|---|---------|--------------------|--------|--------------------|
| Standard  | Item    |                    | Result | Remarks            |
| FCC 47 CFR Part 15 Subpart B<br>(10-1-05 Edition) | §15.107 | Conducted Emission | PASS   | Meet Class B limit |
|   | §15.109 | Radiated Emission  | PASS   | Meet Class B limit |

*Note:* 1. The test result judgment is decided by the limit of measurement standard  
 2. The information of measurement uncertainty is available upon the customer’s request.

**2.4 ENVIRONMENTAL CONDITIONS**

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

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

### 3. TEST FACILITY

|                       |  |
|-----------------------|--|
| Test Site:            | Shenzhen Most Technology Service Co.,Ltd   |
| Location:             | Add: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park ,Nanshan<br>Shenzhen Guangdong ,China   |
| Description:          | There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements. The FCC Registration Number is <b>490827</b> .  |
| Site Filing:          | The site description is on file with the Federal Communications<br>Commission, 7435 Oakland Mills Road, Columbia, MD 21046.  |
| Instrument Tolerance: | All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.  |
| Ground Plane:         | Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz. |

#### 4. TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

| No. | Equipment                            | Manufacturer      | Model No.      | S/N         | Calculator due date |
|-----|--------------------------------------|-------------------|----------------|-------------|---------------------|
| 1   | Test Receiver                        | Rohde & Schwarz   | ESCI           | 100492      | 2010/03/14          |
| 2   | L.I.S.N.                             | Rohde & Schwarz   | ENV216         | 100093      | 2010/03/14          |
| 3   | Coaxial Switch                       | Anritsu Corp      | MP59B          | 6200283933  | 2010/03/14          |
| 4   | Terminator                           | Hubersuhner       | 50Ω            | No.1        | 2010/03/14          |
| 5   | RF Cable                             | SchwarzBeck       | N/A            | No.1        | 2010/03/14          |
| 6   | Test Receiver                        | Rohde & Schwarz   | ESPI           | 101202      | 2010/03/14          |
| 7   | Bilog Antenna                        | Sunol             | JB3            | A121206     | 2010/03/14          |
| 8   | Test Antenna - Horn                  | Schwarzbeck       | BBHA 9120C     | --          | 2010/03/14          |
| 9   | Test Antenna - Bi-Log                | Schwarzbeck       | VULB 9163      | --          | 2010/03/14          |
| 10  | Cable                                | Resenberger       | N/A            | NO.1        | 2010/03/14          |
| 11  | Cable                                | SchwarzBeck       | N/A            | NO.2        | 2010/03/14          |
| 12  | Cable                                | SchwarzBeck       | N/A            | NO.3        | 2010/03/14          |
| 13  | DC Power Filter                      | DuoJi             | DL2×30B        | N/A         | 2010/03/14          |
| 14  | Single Phase Power Line Filter       | DuoJi             | FNF 202B30     | N/A         | 2010/03/14          |
| 15  | 3 Phase Power Line Filter            | DuoJi             | FNF 402B30     | N/A         | 2010/03/14          |
| 16  | Test Receiver                        | Rohde & Schwarz   | ESCI           | 100492      | 2010/03/14          |
| 17  | Absorbing Clamp                      | Luthi             | MDS21          | 3635        | 2010/03/14          |
| 18  | Coaxial Switch                       | Anritsu Corp      | MP59B          | 6200283933  | 2010/03/14          |
| 19  | AC Power Source                      | Kikusui           | AC40MA         | LM003232    | 2010/03/14          |
| 20  | Test Analyzer                        | Kikusui           | KHA1000        | LM003720    | 2010/03/14          |
| 21  | Line Impedence Network               | Kikusui           | LIN40MA-PCR-L  | LM002352    | 2010/03/14          |
| 22  | ESD Tester                           | Kikusui           | KES4021        | LM003537    | 2010/03/14          |
| 23  | EMC PRO System                       | EM Test           | UCS-500-M4     | V0648102026 | 2010/03/14          |
| 24  | Signal Generator                     | IFR               | 2032           | 203002/100  | 2010/03/14          |
| 25  | Amplifier                            | A&R               | 150W1000       | 301584      | 2010/03/14          |
| 26  | CDN                                  | FCC               | FCC-801-M2-25  | 47          | 2010/03/14          |
| 27  | CDN                                  | FCC               | FCC-801-M3-25  | 107         | 2010/03/14          |
| 28  | EM Injection Clamp                   | FCC               | F-203I-23mm    | 403         | 2010/03/14          |
| 29  | RF Cable                             | MIYAZAKI          | N/A            | No.1/No.2   | 2010/03/14          |
| 30  | Universal Radio Communication Tester | ROHDE&SCHWARZ     | CMU200         | 0304789     | 2010/03/14          |
| 31  | Telecommunication Antenna            | European Antennas | PSA 75301R/170 | 0304213     | 2010/03/14          |

**NOTE:** Equipments listed above have been calibrated and are in the period of validation.

**5. 47 CFR PART 15 B REQUIREMENTS**

**5.1 GENERAL INFORMATION**

**EUT Function and Test Mode**

The EUT has been tested under different mode condition; Make sure the entire mode EUT was working at the follow conditions during the testing.

1. Adjust the computer to keep the maximum brightness and contrast display during the testing.
2. Adjust the computer to keep the maximum screen distinguish rate and the maximum screen refurbish frequency during the testing.
3. Input and scrolling the letter H's on the display during the testing.

After the 1-3 steps are finished, start the testing and make the EUT work normally during the test.

The following data show only with the worst case setup.

The worst case of Y axis was reported.

**5.2 PRODUCT TESTING DETAILS**

|                  |  |
|------------------|--|
| Housing Type:    | Plastic  |
| AC Power Rating: | AC IN:100-240V/ 50/60Hz/1.7A<br>DC Out: 18.5V/3.5A |
| EUT During Test  | DC IN:18.5V  |
| Power Cable:     | Unshielded, 2.00 m                                 |

**5.3 I/O PORT OF EUT:**

| I/O Port Type | Q'TY | Tested with |
|---------------|------|-------------|
| AC input      | 1    | 1           |
| Card          | 1    | 1           |
| USB-1         | 3    | 3           |
| USB-2         | 1    | 1           |
| Earphone      | 2    | 2           |
| VGA           | 1    | 1           |
| RJ 45         | 1    | 1           |
| RJ 11         | 1    | 1           |



#### 5.4 EUT TECHNICAL SPECIFICATION

| Name          | Type                                     | Parameter   | Factory   |
|---------------|--|---|---|
| CPU           | Intel®Atom N270                          | 1600 MHz  | Intel   |
| Main board    | S101                                     | 191.0×164.0×1.4   | BYD   |
| Power Adapter | 0335A1865                                | INPUT:100-240VAC,<br>50-60Hz,1.7A<br>OUTPUT:18.5VDC, 3.5A | LI SHIN<br>INTERNATIONAL<br>ENTERPRISE<br>CORP    |
| Oscillator    | YC 14.318-SMU3-20-30                     | 14.318180<br>MHz,±30PPM,20pF                              | TONGLING<br>YONGCHUANG<br>ELECTRONICS<br>CO.,LTD. |
|               | R49SSA-014318-F20<br>( Can be replaced ) | 14.318180<br>MHz,±30PPM,20pF                              | YOKETAN<br>CORPORATION                            |
|               | YC 25.000-SMU3-20-30                     | 25MHz,±30PPM,20pF   | TONGLING<br>YONGCHUANG<br>ELECTRONICS<br>CO.,LTD. |
|               | R49SSA-025000-F20<br>( Can be replaced ) | 25MHz,±30PPM,20pF   | YOKETAN<br>CORPORATION                            |
|               | SSP-T7-F                                 | 32.768KH±20ppm ,<br>12.5PF                                | SEIKO   |
| Keyboard      | CNS101                                   | L254.75*W96.4*T4.4  | BYD   |
| 3G Module     | CDMA-2000 / CDMA                         | Various   | Huawei  |
| I/O Board     | N/A                                      | N/A   | N/A   |

#### 5.5 SUPPORT EQUIPMENT

| Device Type | Manufacturer | Model Name | Serial No.                   | Data Cable           | Power Cable          |
|-------------|--------------|------------|------------------------------|----------------------|----------------------|
| KEYBOARD    | Lenovo       | SK-8115    | CN-0J4633-71<br>616-51A-0KJY | 1.6M<br>Shielded     | N/A                  |
| MOUSE       | Lenovo       | 81-015     | N/A                          | 1.6M<br>Shielded     | N/A                  |
| SD Card     | SD Card      | SanDisk    | 1.0G                         | BB080651195<br>2D    | N/A                  |
| U-Disk      | BENQ         | 128MB      | N/A                          | N/A                  | N/A                  |
| MONITOR     | Lenovo       | 201b       | A21050402549                 | 1.6M<br>Shielded     | 1.8M<br>Un-Shielded  |
| Speaker     | Edifier      | X100       | N/A                          | Un-shielding<br>1.5M | Un-shielding<br>1.2M |
| Microphone  | N/A          | N/A        | N/A                          | Un-shielding<br>1.5M | Un-shielding<br>1.2M |

## 6. LINE CONDUCTED EMISSION TEST

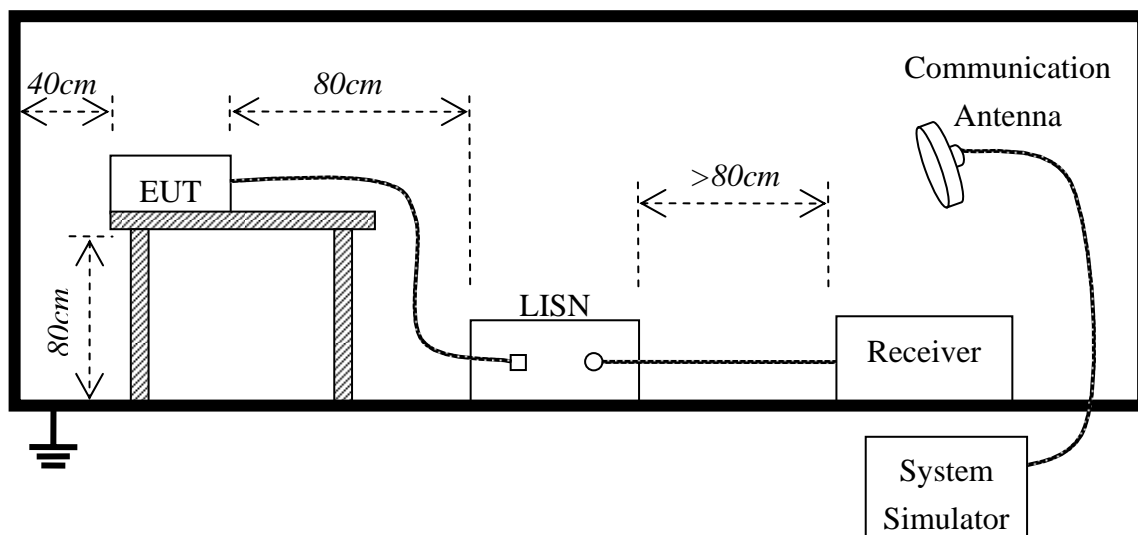
### 6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency     | Maximum RF Line Voltage |                |
|---------------|-------------------------|----------------|
|               | Q.P.( dBuV)             | Average( dBuV) |
| 150kHz-500kHz | 66-56                   | 56-46          |
| 500kHz-5MHz   | 56                      | 46             |
| 5MHz-30MHz    | 60                      | 50             |

**\*\*Note:** 1. the lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

### 6.2. BLOCK DIAGRAM OF TEST SETUP



**6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user’s manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

| Preliminary Conducted Emission Test |            |                  |           |                                     |
|-------------------------------------|------------|------------------|-----------|-------------------------------------|
| Frequency Range Investigated        |            | 150KHz TO 30 MHz |           |                                     |
| Mode of operation                   | Date       | Report No.       | Data#     | Worst Mode                          |
| USB-1 Mode                          | 09/06/2009 | SZSTS090602F1    | 01_(L, N) | <input checked="" type="checkbox"/> |
| USB-2 Mode                          | 09/06/2009 | SZSTS090602F1    | 02_(L, N) |                                     |
| Earphone Mode                       | 09/06/2009 | SZSTS090602F1    | 03_(L, N) |                                     |
| VGA Mode                            | 09/06/2009 | SZSTS090602F1    | 04_(L, N) |                                     |
| RJ 45 Mode                          | 09/06/2009 | SZSTS090602F1    | 05_(L, N) |                                     |
| RJ 11 Mode                          | 09/06/2009 | SZSTS090602F1    | 06_(L, N) |                                     |
| Card Port Mode                      | 09/06/2009 | SZSTS090602F1    | 07_(L, N) |                                     |
| Host Mode                           | 09/06/2009 | SZSTS090602F1    | 08_(L, N) |                                     |

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

**6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST**

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector. The test data of the worst case condition(s) was reported on the Summary Data page.

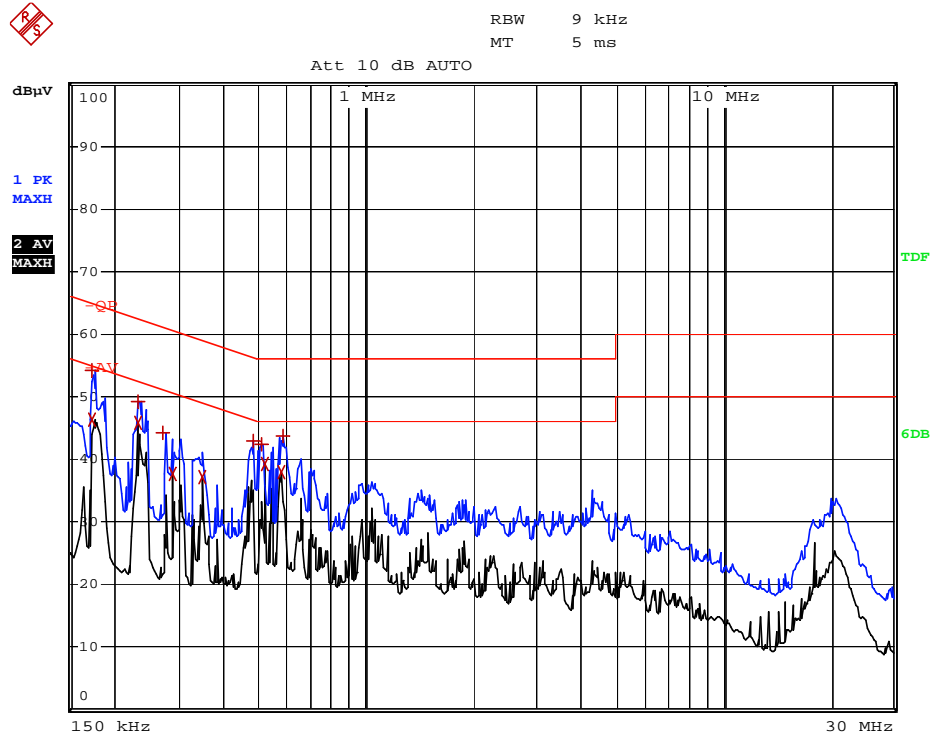
**6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST**

|                                |                            |
|--------------------------------|----------------------------|
| <b>EUT</b> : Notebook Computer | <b>Power</b> : AC 120V     |
| <b>M/N</b> : S101-L            | <b>Temperature</b> : 27 °C |
| <b>Mode</b> : USB-1 Mode       | <b>Humidity</b> : 60%      |

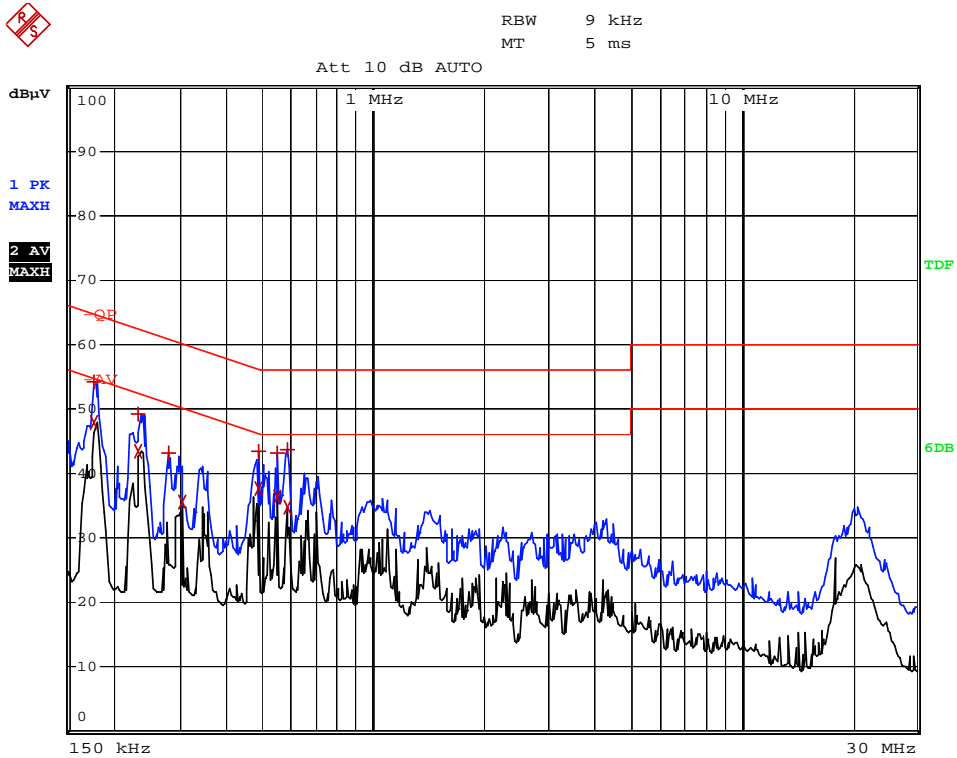
| Frequency Range Investigated (1000 MHz TO 8000 MHz) |                    |                      |                       |                     |                       |         |      |
|---|--------------------|----------------------|-----------------------|---------------------|-----------------------|---------|------|
| Freq (MHz)  | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Safe Margins (dBuV/m) | Ant. HV | Mark |
| 1562.150  | 16.28              | 27.29                | 43.57                 | 54.00               | -10.43                | H       | Q    |
| 3006.090  | 14.12              | 29.60                | 43.72                 | 54.00               | -10.28                | H       | Q    |
| Other   |                    |                      |                       | 54.00               | >10                   | H       |      |
|   |                    |                      |                       |                     |                       |         |      |
| 1203.188  | 14.50              | 27.06                | 41.56                 | 54.00               | -12.44                | V       | Q    |
| 1560.257  | 12.34              | 27.29                | 39.63                 | 54.00               | -14.37                | V       | Q    |
| Other   |                    |                      |                       | 54.00               | >10                   | V       | Q    |
|   |                    |                      |                       |                     |                       |         |      |
|   |                    |                      |                       |                     |                       |         |      |

|                |  |
|----------------|--|
| Freq.          | = Emission frequency in MHz  |
| Reading level  | = Uncorrected Analyzer/Receiver reading  |
| Factor         | = Cable loss + LISN inserting loss   |
| Emission level | = Reading level + Factor   |
| Limit          | = Limit stated in standard   |
| Margin         | = Reading in reference to limit  |
| “---”          | = The emission level complied with the Average limits, with at least 2 dB margin, so no further recheck. |

Line Conducted Emission Test Data----- L Line



Line Conducted Emission Test Data----- N Line



## 7. RADIATED EMISSION TEST

### 7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

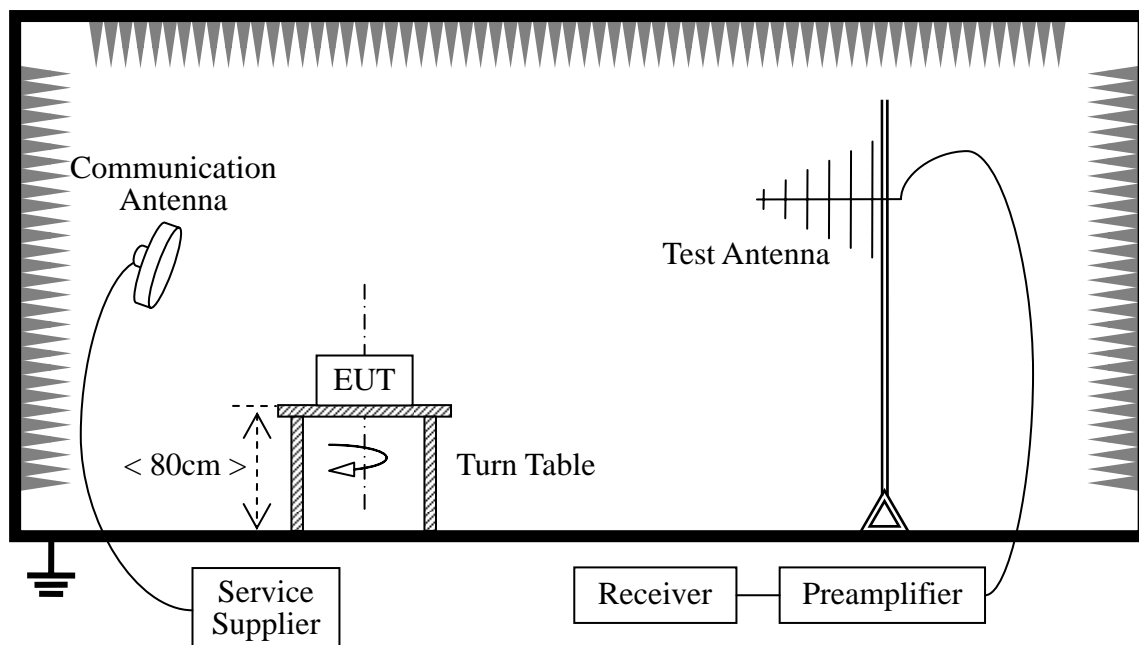
According to FCC section 15.109 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ( $\mu\text{V/m}$ ) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 30 - 88         | 100                                | 3                        |
| 88 - 216        | 150                                | 3                        |
| 216 - 960       | 200                                | 3                        |
| Above 960       | 500                                | 3                        |

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

### 7.2 TEST DESCRIPTION

#### Test Setup:



The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of

the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and transmitting with the other Bluetooth device (Supply by the Applicant) during the test.

For the Test Antenna:

(a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

| Preliminary Radiated Emission Test |            |                    |          |                                     |
|------------------------------------|------------|--------------------|----------|-------------------------------------|
| Frequency Range Investigated       |            | 30 MHz TO 1000 MHz |          |                                     |
| Mode of operation                  | Date       | Report No.         | Data#    | Worst Mode                          |
| USB-1 Mode                         | 09/06/2009 | SZSTS090602F1      | 01_(H,V) | <input checked="" type="checkbox"/> |
| USB-2 Mode                         | 09/06/2009 | SZSTS090602F1      | 02_(H,V) |                                     |
| Earphone Mode                      | 09/06/2009 | SZSTS090602F1      | 03_(H,V) |                                     |
| VGA Mode                           | 09/06/2009 | SZSTS090602F1      | 04_(H,V) |                                     |
| RJ 45 Mode                         | 09/06/2009 | SZSTS090602F1      | 05_(H,V) |                                     |
| RJ 11 Mode                         | 09/06/2009 | SZSTS090602F1      | 06_(H,V) |                                     |
| Card Port Mode                     | 09/06/2009 | SZSTS090602F1      | 07_(H,V) |                                     |
| Host Mode                          | 09/06/2009 | SZSTS090602F1      | 08_(H,V) |                                     |

**7.3 TEST RESULT****EUT** : Notebook Computer**M/N** : S101-L**Mode** : USB-1 Mode**Power** : AC 120V**Temperature** : 27 °C**Humidity** : 60%

| Frequency Range Investigated (30 MHz TO 1000 MHz) |                    |                      |                       |                     |                       |         |      |
|---|--------------------|----------------------|-----------------------|---------------------|-----------------------|---------|------|
| Freq. (MHz)                                       | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Safe Margins (dBuV/m) | Ant. HV | Mark |
| 231.853   | 21.44              | 6.99                 | 28.43                 | 46.00               | -17.57                | H       | Q    |
| 246.990   | 18.52              | 7.60                 | 26.12                 | 46.00               | -19.88                | H       | Q    |
| 300.699   | 15.67              | 8.66                 | 24.33                 | 46.00               | -21.67                | H       | Q    |
| 749.676   | 12.12              | 16.37                | 28.49                 | 46.00               | -17.51                | H       | Q    |
| 856.760   | 17.10              | 18.04                | 35.14                 | 46.00               | -10.86                | H       | Q    |
| 233.488   | 16.92              | 7.08                 | 24.00                 | 46.00               | -22.00                | V       | Q    |
| 502.247   | 10.45              | 12.97                | 23.42                 | 46.00               | -22.58                | V       | Q    |
| 569.969   | 11.41              | 14.39                | 25.80                 | 46.00               | -20.20                | V       | Q    |
| 744.426   | 13.19              | 16.30                | 29.49                 | 46.00               | -16.51                | V       | Q    |
| 856.760   | 14.69              | 18.04                | 32.73                 | 46.00               | -13.27                | V       | Q    |

*Note:*

*The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors.*



| Frequency Range Investigated (1000 MHz TO 8000 MHz) |                    |                      |                       |                     |                       |          |      |
|---|--------------------|----------------------|-----------------------|---------------------|-----------------------|----------|------|
| Freq. (MHz)   | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Safe Margins (dBuV/m) | Ant. H/V | Mark |
| 1562.150  | 16.28              | 27.29                | 43.57                 | 54.00               | -10.43                | H        | Q    |
| 3006.090  | 14.12              | 29.60                | 43.72                 | 54.00               | -10.28                | H        | Q    |
| Other   |                    |                      |                       | 54.00               | >10                   | H        |      |
|   |                    |                      |                       |                     |                       |          |      |
| 1203.188  | 14.50              | 27.06                | 41.56                 | 54.00               | -12.44                | V        | Q    |
| 1560.257  | 12.34              | 27.29                | 39.63                 | 54.00               | -14.37                | V        | Q    |
| Other   |                    |                      |                       | 54.00               | >10                   | V        | Q    |
|   |                    |                      |                       |                     |                       |          |      |
|   |                    |                      |                       |                     |                       |          |      |

**Note:**

*The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors.*

**APPENDIX 1**  
**PHOTOGRAPHS OF TEST SETUP**

Line Conducted Emission Test Setup



Radiated Emission Test Setup



**APPENDIX 2  
PHOTOGRAPHS OF EUT**

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE







BOTTOM VIEW OF SAMPLE



PHOTO OF POWER SUPPLY

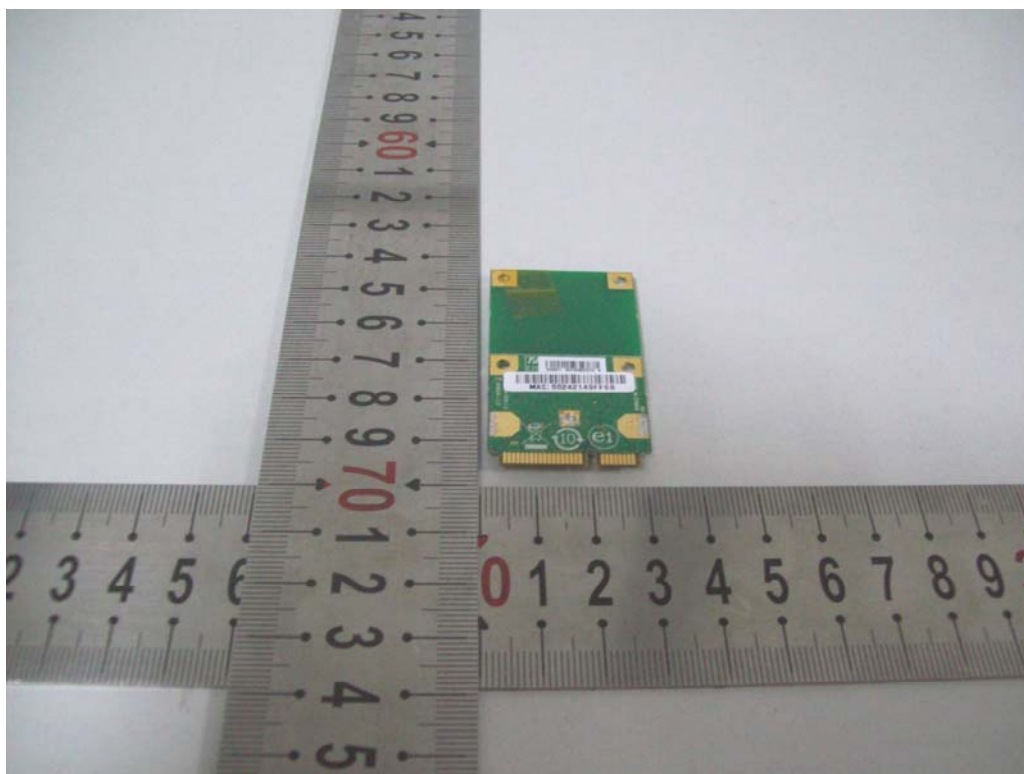
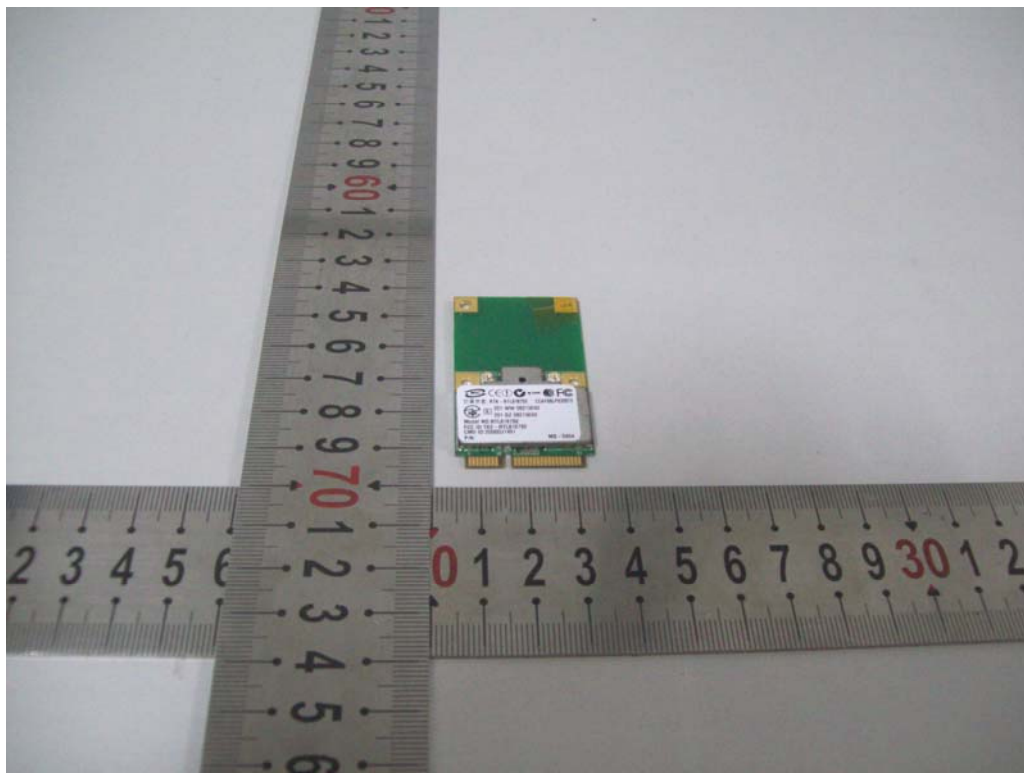


PHOTO OF THE ENTIRE SAMPLE





INTERNAL PHOTO OF SAMPLE –BLUETOOTH MODULE



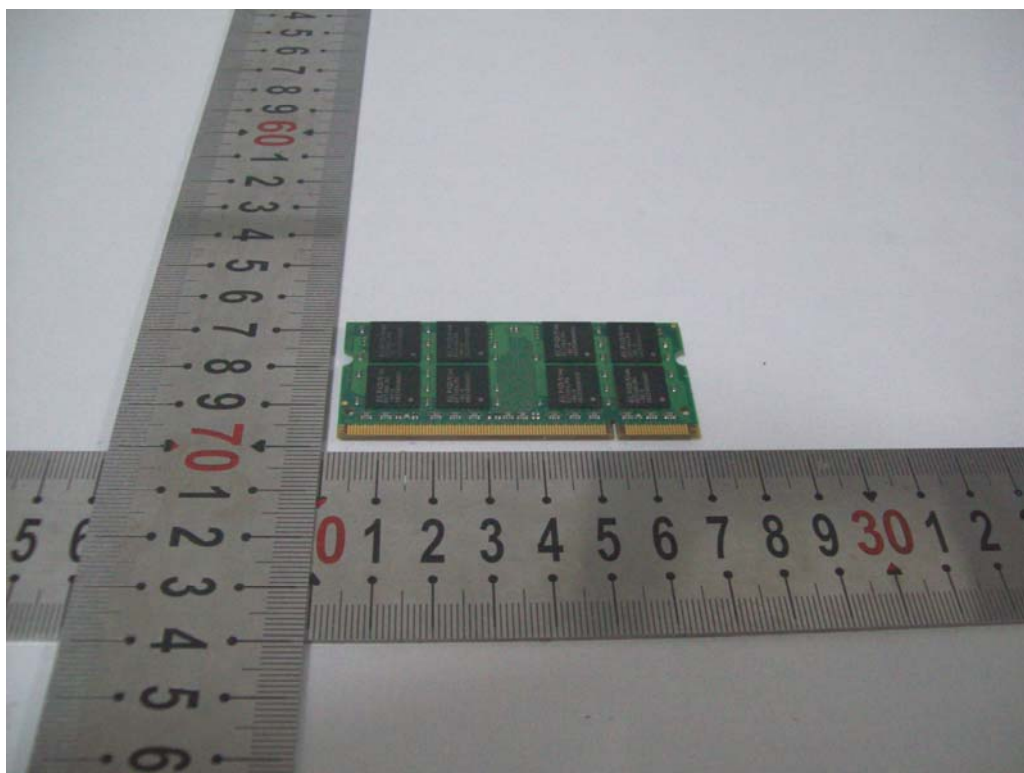
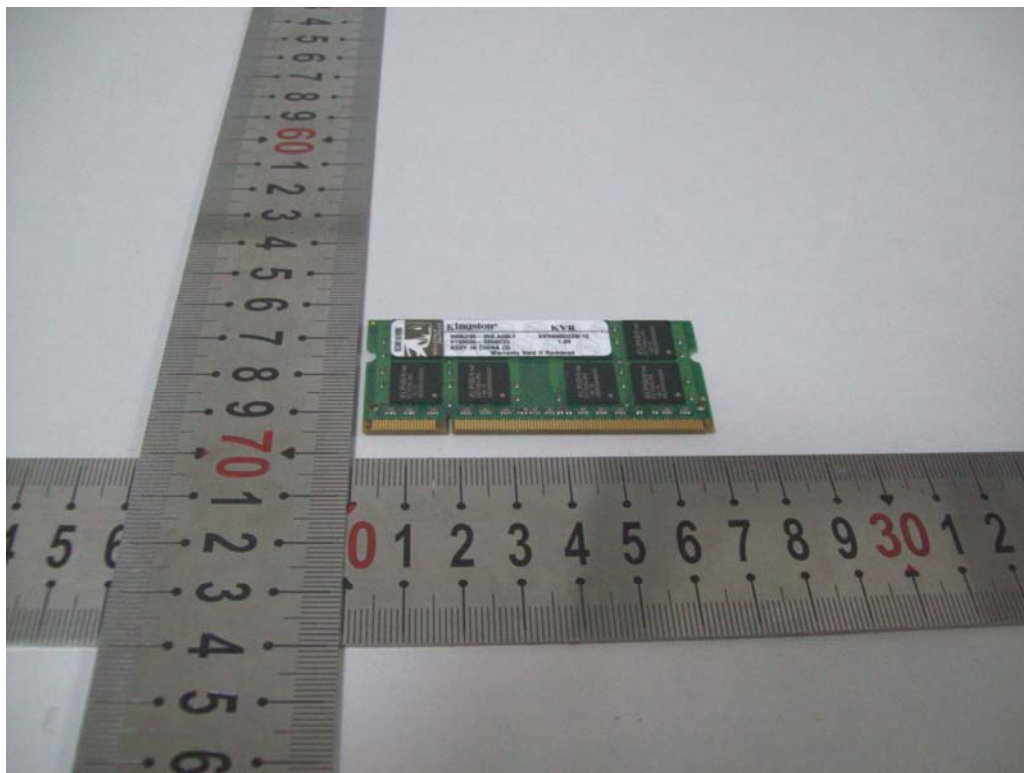
INTERNAL PHOTO OF SAMPLE -MAINBOARD



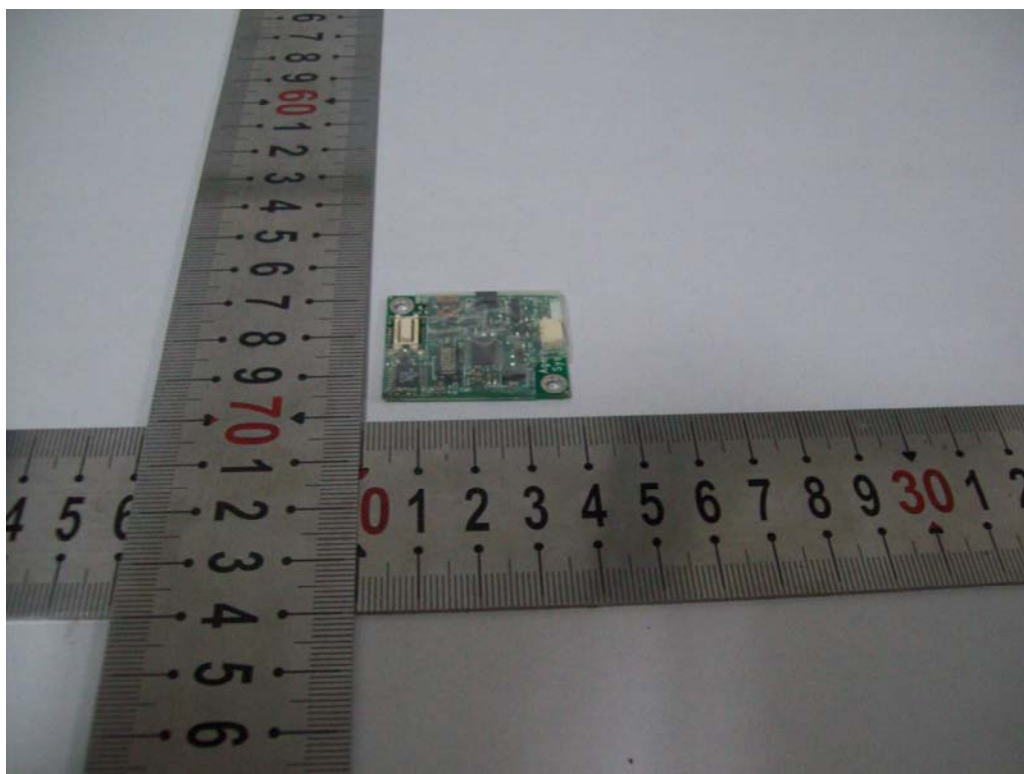
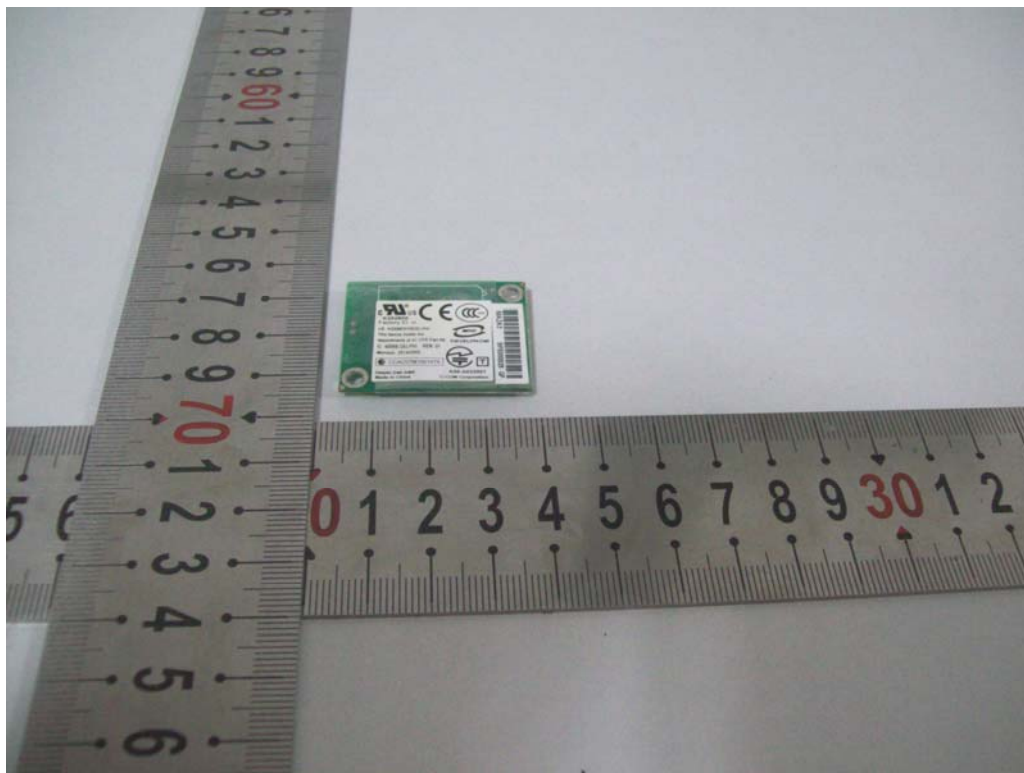




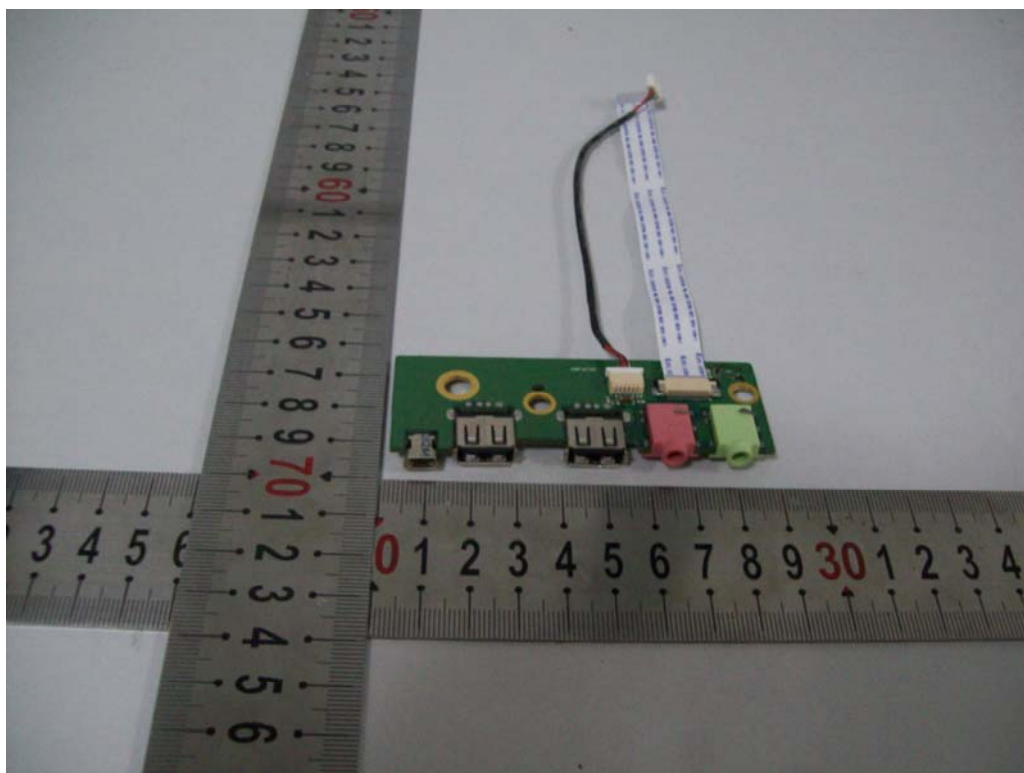
INTERNAL PHOTO OF SAMPLE - MEMORIA



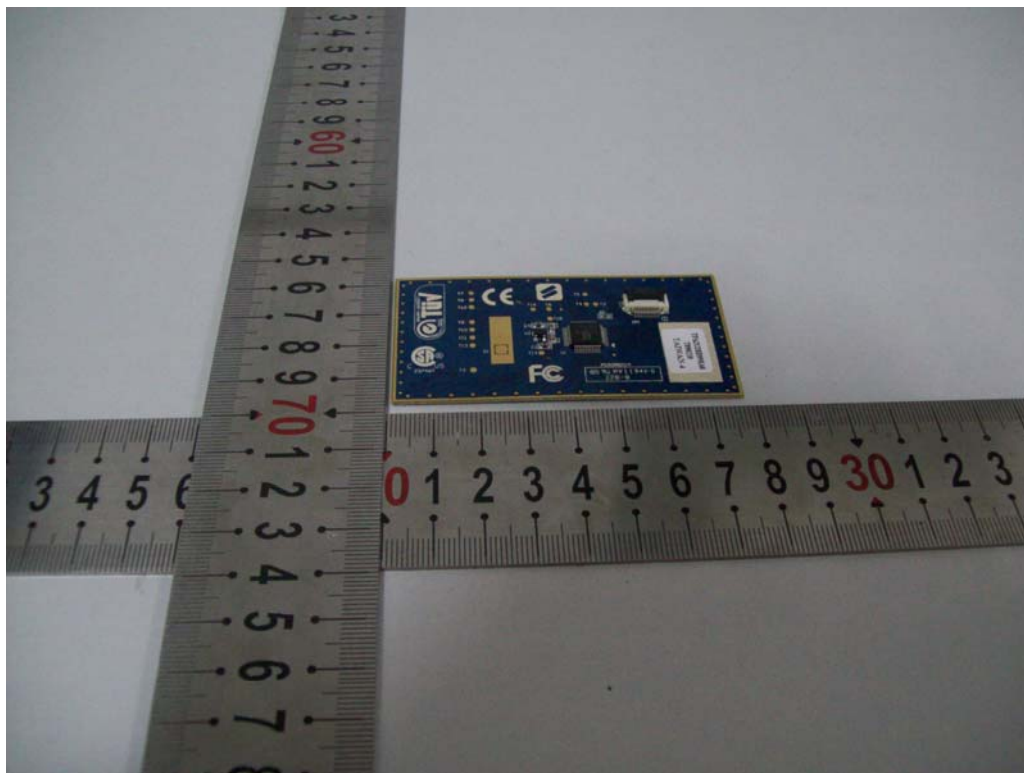
INTERNAL PHOTO OF SAMPLE - MODEM



INTERNAL PHOTO OF SAMPLE - PORTS

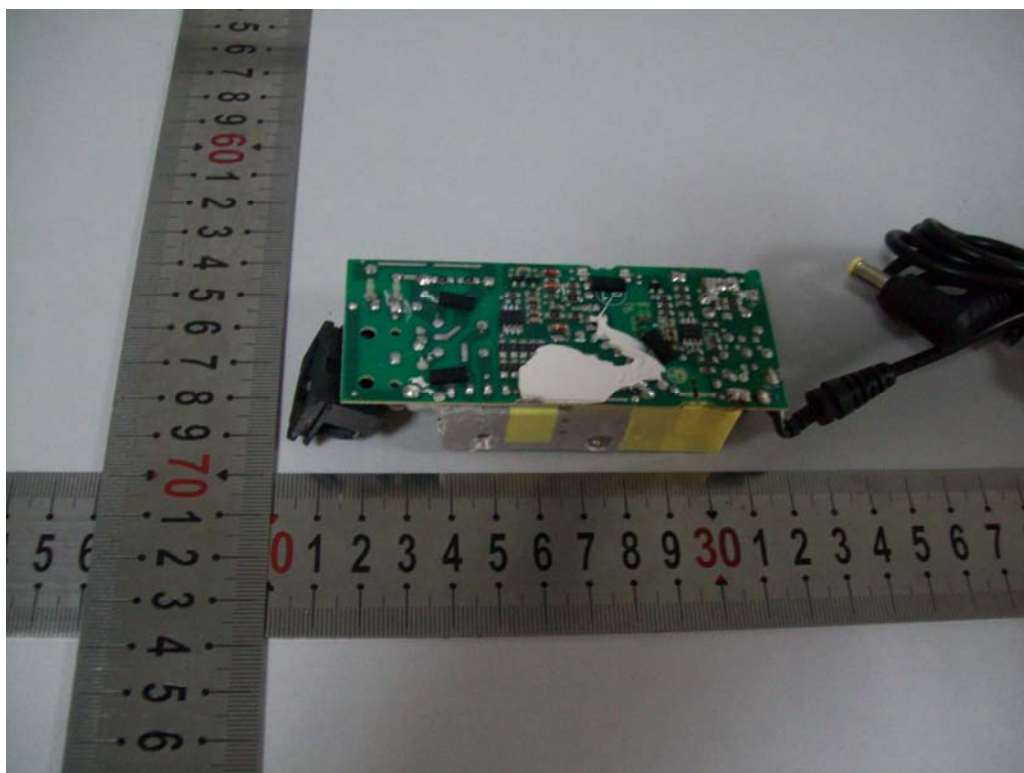
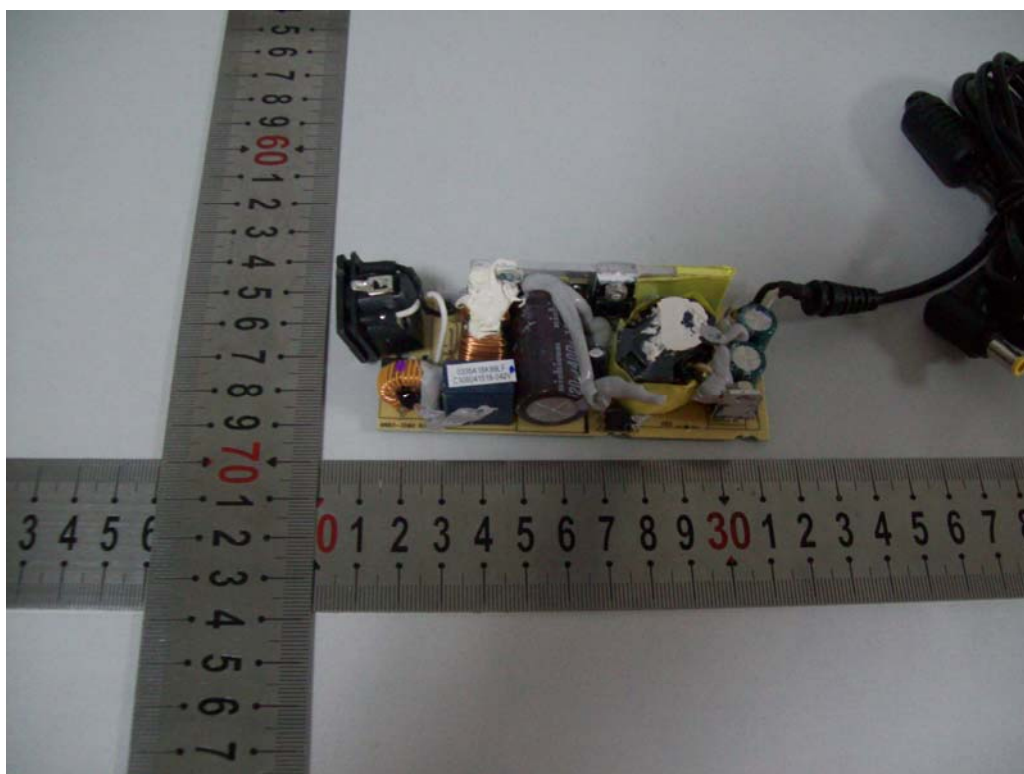


INTERNAL PHOTO OF SAMPLE - TOUCH PAD



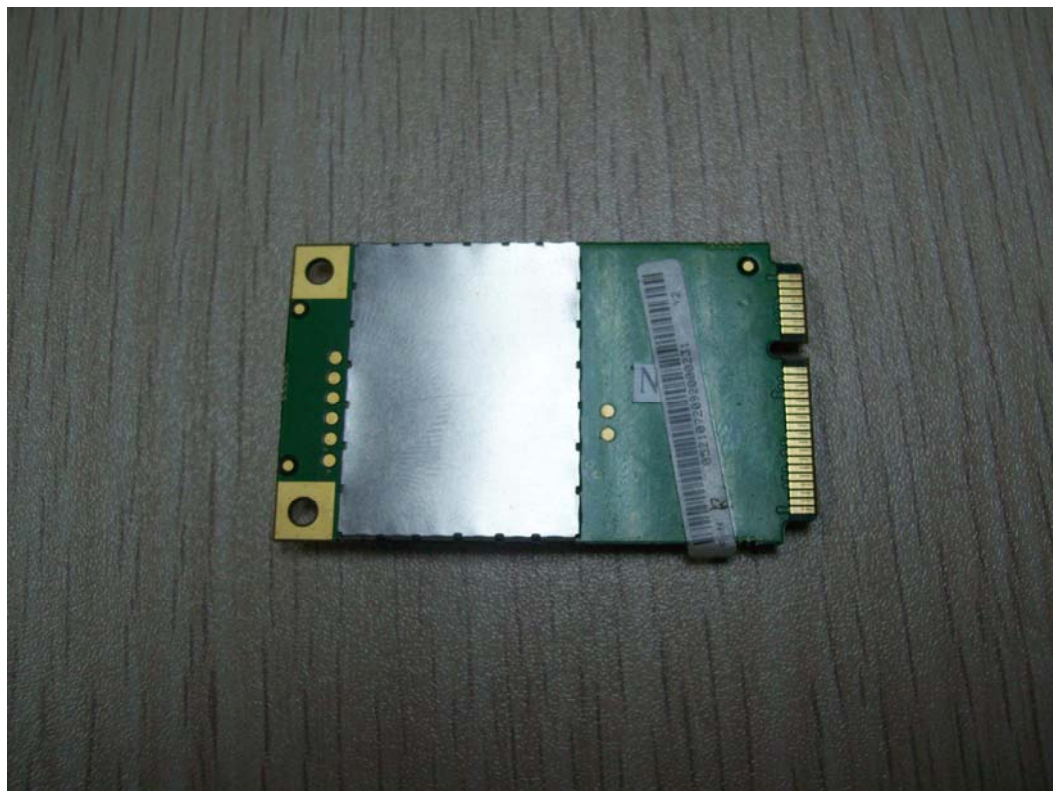


INTERNAL PHOTO OF SAMPLE - ADAPTER





3G Module (FCC ID: QISEM660)





-----END OF REPORT-----