

## DECLARATION OF CONFORMITY

On Behalf of

Foshan Nanhai SELECO Hardware Decoration Products Co., Ltd.

Hotel Lock

Model No.:SG-0201, SG-0210, SG-0202, SG-0203  
SG-0205, SG-0206, SG-0207

Prepared for : Foshan Nanhai SELECO Hardware Decoration Products Co., Ltd.  
Address : Ganjiaohetong Industrial Development Zone, Lishui Town, Nanhai  
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Report Number : 201101683F-1  
Date of Test : Jan. 12~17, 2011  
Date of Report : Jan. 19, 2011

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## TEST REPORT VERIFICATION

Applicant : Foshan Nanhai SELECO Hardware Decoration Products Co., Ltd.  
Manufacturer : Foshan Nanhai SELECO Hardware Decoration Products Co., Ltd.  
EUT : Hotel Lock  
Model No. : SG-0201, SG-0210, SG-0202, SG-0203, SG-0205, SG-0206,  
SG-0207  
Rating : DC 6V  
Trade Mark : N.A.

### Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 15.209-2010 & FCC / ANSI C63.4-2009

The device described above is tested by Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

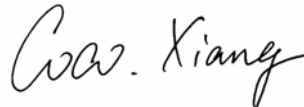
Date of Test : Jan. 12~17, 2011

Prepared by :



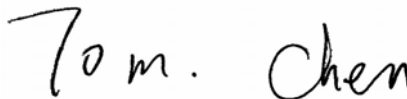
(Engineer/ Well Wang)

Reviewer :



(Project Manager/ Coco Xiang)

Approved & Authorized Signer :



(Manager/ Tom Chen)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                         |  |
|-------------------------|--|
| Description             | : Hotel Lock   |
| Model Number            | : SG-0201, SG-0210, SG-0202, SG-0203, SG-0205,<br>SG-0206, SG-0207<br>(Note: The above samples are same except the model<br>number & Shape of appliances, so we prepare “SG-0201”<br>for EMC test only.) |
| Test Power Supply       | : DC 6V via 4 pcs of new (full) AA Battery   |
| Frequency               | : 125KHz   |
| Applicant               | : Foshan Nanhai SELECO Hardware Decoration Products<br>Co., Ltd.   |
| Address                 | : Ganjiaohetong Industrial Development Zone, Lishui<br>Town, Nanhai District, Foshan City, Guangdong Province,<br>China  |
| Manufacturer            | : Foshan Nanhai SELECO Hardware Decoration Products<br>Co., Ltd.   |
| Address                 | : Ganjiaohetong Industrial Development Zone, Lishui<br>Town, Nanhai District, Foshan City, Guangdong Province,<br>China  |
| Date of Sample received | : Jan. 11, 2011  |
| Date of Test            | : Jan. 12~17, 2011   |

## 1.2. Description of Test Facility

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

### **CNAS - LAB Code: L3503**

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

### **FCC-Registration No.: 752021**

Anbotek Compliance Laboratory Limited, 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 752021, August 20, 2010

### **IC-Registration No.: 8058A-1**

Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, August 30, 2010

### **Test Location**

All Emissions tests were performed

Anbotek Compliance Laboratory Limited. at 1/F, 1 /Build, SEC Industrial Park, No. 4 Qianhai Road, Nanshan District, Shenzhen, 518054, China

## 1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

## 2. MEASURING DEVICE AND TEST EQUIPMENT

| Equipment                            | Manufacturer         | Model # | Serial #   | Data of Cal. | Due Data     |
|--------------------------------------|----------------------|---------|------------|--------------|--------------|
| EMI Test Receiver                    | Rohde & Schwarz      | ESCI    | 100119     | Mar.03, 2010 | Mar.02, 2011 |
| EMI Test Receiver                    | Rohde & Schwarz      | ESPI    | 1101604    | Jun.21, 2010 | Jun.20, 2011 |
| EMI Test Receiver                    | Rohde & Schwarz      | ESIB26  | 100249     | Sep.22, 2010 | Sep.21, 2011 |
| EMI Test Software                    | SHURPLE              | ESK1    | N/A        | N/A          | N/A          |
| Spectrum Analyzer                    | Agilent              | E7405A  | MY45114970 | Jun.21, 2010 | Jun.20, 2011 |
| Signal Generator                     | Rohde & Schwarz      | SMR27   | 100124     | Jul.06, 2010 | Jul.05, 2012 |
| Signal Generator                     | Rohde & Schwarz      | SML03   | 102319     | Aug.01, 2010 | Aug.01, 2012 |
| AC Power Source                      | Sepcial power system | YF650   | N/A        | N/A          | N/A          |
| Absorbing Clamp                      | Rohde & Schwarz      | MDS21   | 100218     | Apr.30, 2010 | Apr.29, 2012 |
| Power Meter                          | Rohde & Schwarz      | NRVD    | 101287     | Jul.19, 2009 | Jul.18, 2011 |
| Coaxial Cable                        | N/A                  | N/A     | N/A        | May.31, 2010 | May.30, 2011 |
| Coaxial Cable                        | N/A                  | N/A     | N/A        | May.31, 2010 | May.30, 2011 |
| Coaxial Cable                        | N/A                  | N/A     | N/A        | May.31, 2010 | May.30, 2011 |
| Universal radio Communication tester | Rohde & Schwarz      | CMU200  | 101724     | Sep.08, 2009 | Sep.07, 2011 |
| Pulse Limiter                        | Rohde & Schwarz      | ESH3-Z2 | N/A        | N/A          | N/A          |
| BiConilog Antenna                    | ETS-LINDGREN         | 3142C   | 00042670   | Mar.03, 2010 | Mar.02, 2011 |
| BiConilog Antenna                    | ETS-LINDGREN         | 3142C   | 00042673   | Mar.03, 2010 | Mar.02, 2011 |
| Loop Antenna                         | ETS-LINGREN          | 6502    | 00071730   | Mar.03, 2010 | Mar.02, 2011 |
| Double-ridged Waveguide horn         | ETS-LINDGREN         | 3117    | 00035926   | Dec.30, 2009 | Dec.29, 2011 |
| Double-ridged Waveguide horn         | ETS-LINDGREN         | 3117    | 00041545   | Dec.30, 2009 | Dec.29, 2011 |
| Pre-amplifier                        | CD                   | PAM0203 | 804203     | Jun.21, 2010 | Jun.20, 2011 |
| RF Switch                            | CD                   | RSU-M3  | 706543     | Jun.21, 2010 | Jun.20, 2011 |
| Thermo-/Hygrometer                   | N/A                  | TH01    | N/A        | May.03, 2010 | May.02, 2011 |
| Shielding Room                       | Zhong Yu Electronic  | N/A     | N/A        | N/A          | N/A          |
| 3m Semi-Anechoic Chamber             | Zhong Yu Electronic  | N/A     | N/A        | Apr.28, 2010 | Apr.27, 2012 |

### 3. Test Procedure

**GENERAL:** This report shall NOT be reproduced except in full without the written approval of Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

**RADIATION INTERFERENCE:** The test procedure used was ANSI STANDARD C63.4-2009 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

**Example:**

Freq (MHz) METER READING + ACF = FS  
33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

**ANSI STANDARD C63.4-2009 10.1.7 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

## 4. Radiated emission Measurement

### 4.1. Radiated Emission Limits

| Frequency (MHz) | Field Strength Limitation |      | Field Strength Limitation at 3m Measurement Dist |                            |
|-----------------|---------------------------|------|--|----------------------------|
|                 | (uV/m)                    | Dist | (uV/m)   | (dBuV/m)                   |
| 0.009 – 0.490   | 2400 / F(KHz)             | 300m | $10000 * 2400/F(KHz)$                            | $20\log 2400/F(KHz) + 80$  |
| 0.490 – 1.705   | 24000 / F(KHz)            | 30m  | $100 * 24000/F(KHz)$                             | $20\log 24000/F(KHz) + 40$ |
| 1.705 – 30.00   | 30                        | 30m  | $100 * 30$                                       | $20\log 30 + 40$           |
| 30.0 – 88.0     | 100                       | 3m   | 100  | $20\log 100$               |
| 88.0 – 216.0    | 150                       | 3m   | 150  | $20\log 150$               |
| 216.0 – 960.0   | 200                       | 3m   | 200  | $20\log 200$               |
| Above 960.0     | 500                       | 3m   | 500  | $20\log 500$               |

Note:

- (1) The tighter limit shall apply at the boundary between two frequency range.
- (2) Limitation expressed in dBuV/m is calculated by  $20\log$  Emission Level (uV/m).
- (3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of  $Ld1 = Ld2 * (d2/d1)^2$ .

Example:

F.S Limit at 30m distance is 30uV/m , then F.S Limitation at 3m distance is adjusted as

$$Ld1 = L1 = 30uV/m * (10)^2 = 100 * 30 uV/m$$

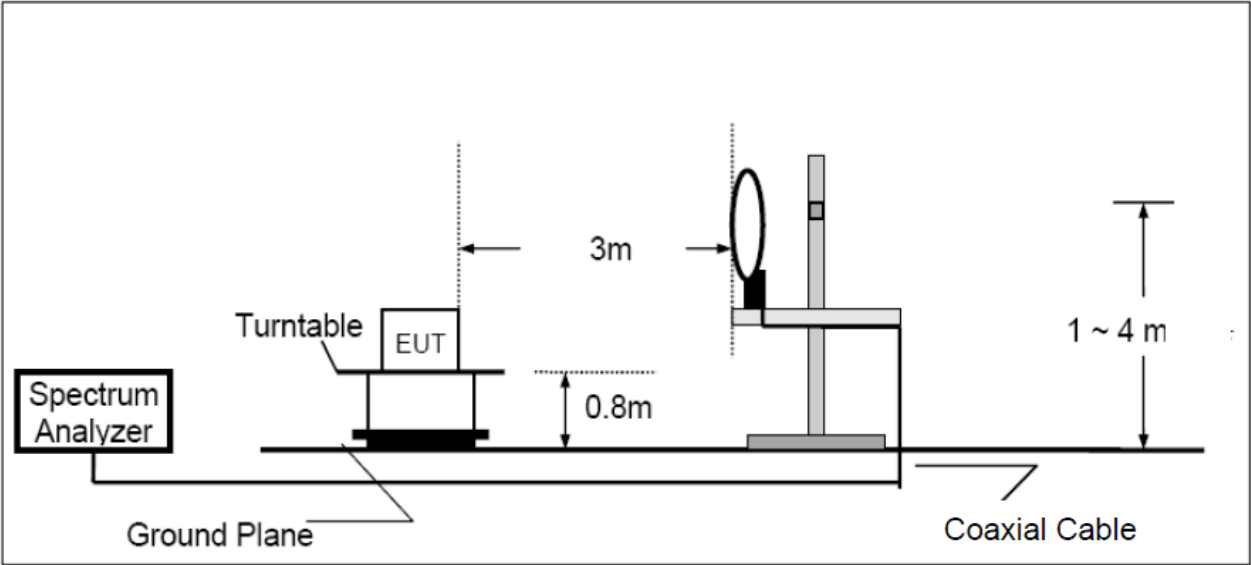
### 4.2. Test Procedure

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

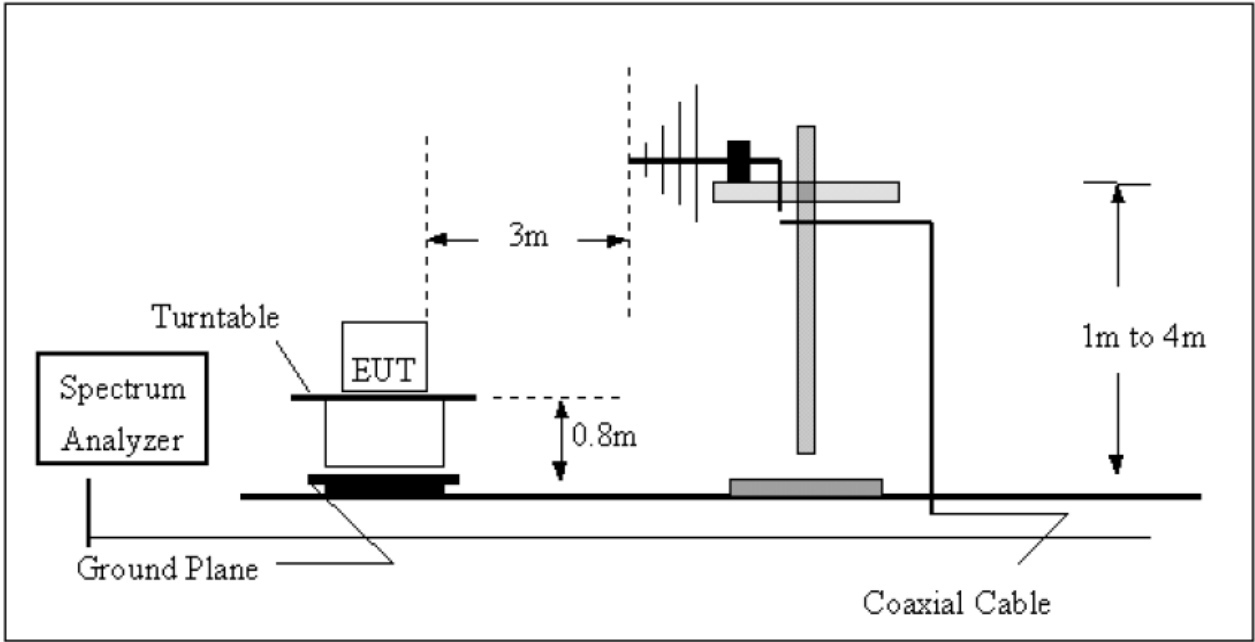


4.3. Test Setup

(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



#### 4.4. Test Results (Below 30MHz)

| Freq.(KHz) | Reading at 3m (dBuV/m) | Factor (dB) Cable loss | Field Strength Limit (uV/m) | Required Measurement Distance (m) | Limitation Converted 3m dist. (dBuV/m) | Over Limit (dB) | Detector (PK/AV) |
|------------|------------------------|------------------------|-----------------------------|-----------------------------------|--|-----------------|------------------|
| 125.00     | 83.58                  | 13.00                  | 19.20                       | 300.00                            | 105.67                                 | -9.09           | PK               |
| 250.00     | 70.56                  | 13.00                  | 9.60                        | 300.00                            | 99.65                                  | -16.09          | PK               |
| 375.00     | 64.50                  | 12.90                  | 6.40                        | 300.00                            | 96.12                                  | -18.72          | PK               |
| 500.00     | 41.45                  | 12.80                  | 48.00                       | 30.00                             | 73.62                                  | -19.37          | PK               |
| 625.00     | 38.65                  | 12.80                  | 38.40                       | 30.00                             | 71.69                                  | -20.24          | PK               |
| 750.00     | 36.57                  | 12.80                  | 32.00                       | 30.00                             | 70.10                                  | -20.73          | PK               |
| 875.00     | --                     | --                     | --                          | --                                | --                                     | --              | --               |
| 1000.00    | --                     | --                     | --                          | --                                | --                                     | --              | --               |
| 1125.00    | --                     | --                     | --                          | --                                | --                                     | --              | --               |
| 1250.00    | --                     | --                     | --                          | --                                | --                                     | --              | --               |

Remark:

(1) Spectrum Setting:

9 KHz – 150 KHz, RBW= 1 KHz, VBW=1 KHz, Sweep time = 200 ms.

150 K Hz – 30 MHz, RBW= 9 KHz, VBW=9 KHz, Sweep time = 200 ms.

(2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform.

(3) The Log-Bicon Antenna will use to test frequency range from 30MHz to 1000MHz and the Loop Antenna will use to test frequency below 30MHz.

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table

#### 4.5. Test Results (Between 30-1000MHz)

PASS.

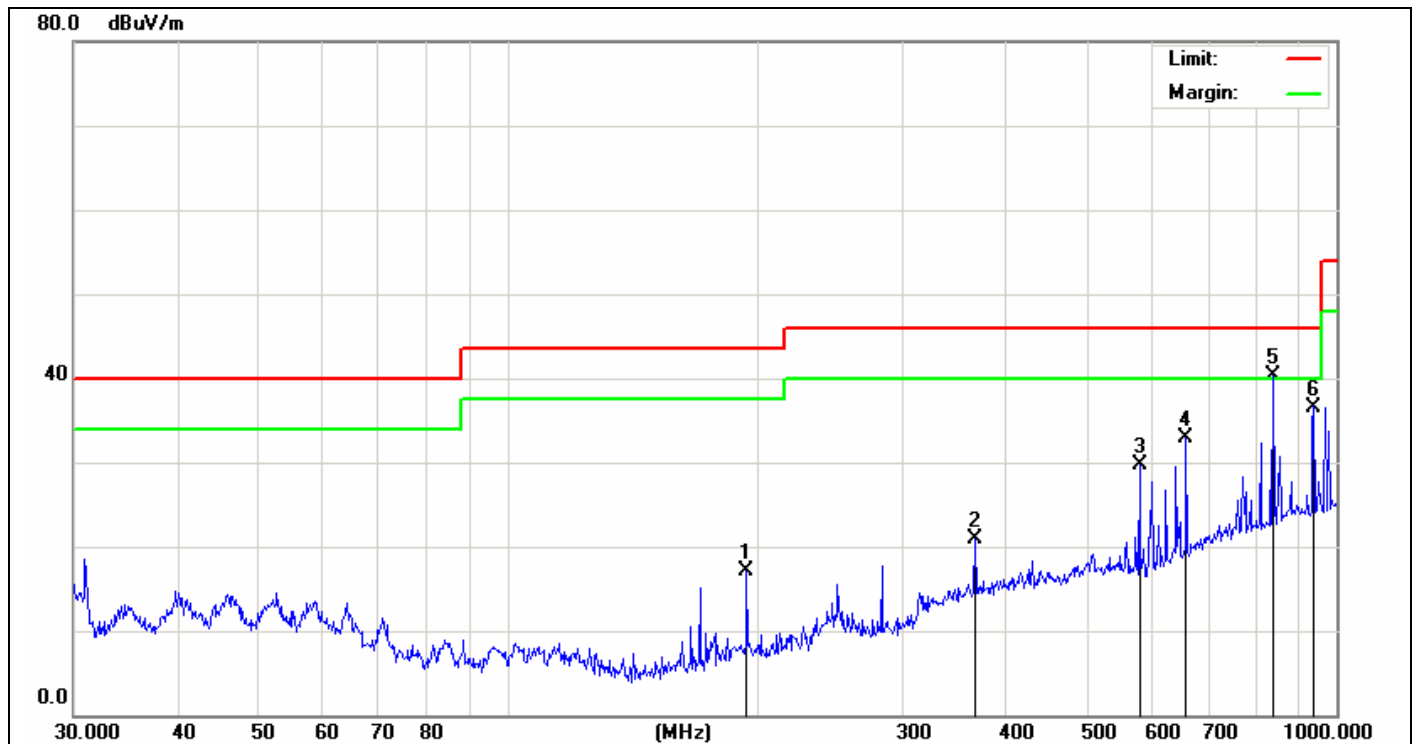
The test curves are shown in the following pages.


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Http://www.anbotek.com

|                            |                             |                      |                   |
|----------------------------|-----------------------------|----------------------|-------------------|
| <b>Job No.:</b>            | <b>AT1101623F-1</b>         | <b>Polarization:</b> | <b>Horizontal</b> |
| <b>Standard:</b>           | <b>(RE)FCC PART15 C _3m</b> | <b>Power Source:</b> | <b>DC 6V</b>      |
| <b>Test item:</b>          | <b>Radiation Test</b>       | <b>Date:</b>         | <b>2011/01/13</b> |
| <b>Temp.(C)/Hum.(%RH):</b> | <b>24.3( C)/55%RH</b>       | <b>Time:</b>         | <b>13:07:19</b>   |
| <b>EUT:</b>                | <b>Hotel Lock</b>           | <b>Test By:</b>      | <b>Well Wang</b>  |
| <b>Model:</b>              | <b>SG-0201</b>              | <b>Distance:</b>     | <b>3m</b>         |
| <b>Note:</b>               | <b>ON</b>                   |                      |                   |



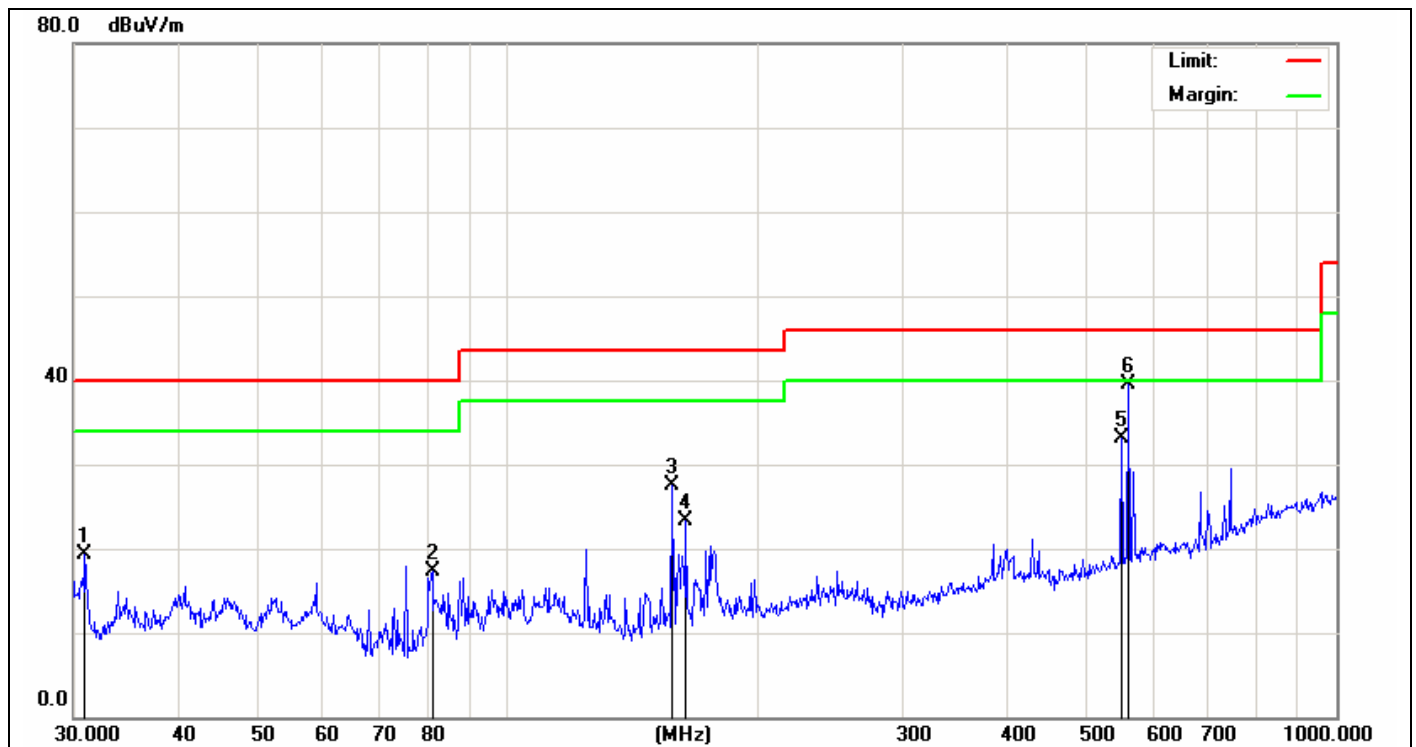
| No. | Frequency | Reading  | Correct | Result   | Limit    | Over Limit | Detector | Height | Degree |
|-----|-----------|----------|---------|----------|----------|------------|----------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)       |          | (cm)   | (deg)  |
| 1   | 194.4534  | 46.51    | -29.44  | 17.07    | 43.50    | -26.43     | peak     |        |        |
| 2   | 366.8231  | 43.07    | -22.07  | 21.00    | 46.00    | -25.00     | peak     |        |        |
| 3   | 578.6699  | 48.59    | -18.80  | 29.79    | 46.00    | -16.21     | peak     |        |        |
| 4   | 658.8362  | 49.70    | -16.75  | 32.95    | 46.00    | -13.05     | peak     |        |        |
| 5   | 839.1818  | 53.16    | -12.82  | 40.34    | 46.00    | -5.66      | peak     |        |        |
| 6   | 938.8326  | 47.87    | -11.27  | 36.60    | 46.00    | -9.40      | peak     |        |        |


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Http://www.anbotek.com

|                            |                             |                      |                   |
|----------------------------|-----------------------------|----------------------|-------------------|
| <b>Job No.:</b>            | <b>AT1101623F-1</b>         | <b>Polarization:</b> | <b>Vertical</b>   |
| <b>Standard:</b>           | <b>(RE)FCC PART15 C _3m</b> | <b>Power Source:</b> | <b>DC 6V</b>      |
| <b>Test item:</b>          | <b>Radiation Test</b>       | <b>Date:</b>         | <b>2011/01/13</b> |
| <b>Temp.(C)/Hum.(%RH):</b> | <b>24.3( C)/55%RH</b>       | <b>Time:</b>         | <b>13:04:15</b>   |
| <b>EUT:</b>                | <b>Hotel Lock</b>           | <b>Test By:</b>      | <b>Well Wang</b>  |
| <b>Model:</b>              | <b>SG-0201</b>              | <b>Distance:</b>     | <b>3m</b>         |
| <b>Note:</b>               | <b>ON</b>                   |                      |                   |



| No. | Frequency | Reading  | Correct | Result   | Limit    | Over Limit | Detector | Height | Degree |
|-----|-----------|----------|---------|----------|----------|------------|----------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)       |          | (cm)   | (deg)  |
| 1   | 30.9618   | 45.56    | -26.30  | 19.26    | 40.00    | -20.74     | peak     |        |        |
| 2   | 81.2116   | 46.17    | -28.93  | 17.24    | 40.00    | -22.76     | peak     |        |        |
| 3   | 158.1123  | 54.13    | -26.58  | 27.55    | 43.50    | -15.95     | peak     |        |        |
| 4   | 164.3301  | 49.63    | -26.33  | 23.30    | 43.50    | -20.20     | peak     |        |        |
| 5   | 550.9479  | 51.07    | -17.95  | 33.12    | 46.00    | -12.88     | peak     |        |        |
| 6   | 560.6928  | 57.22    | -17.70  | 39.52    | 46.00    | -6.48      | peak     |        |        |