

APPLICATION CERTIFICATION  
On Behalf of  
SHENZHEN ASIA BRIGHT INDUSTRY CO LTD

REMOTE CONTROL UNIT  
Model No.: AS-CF001

FCC ID: AMVAS-CF001

Prepared for : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD  
Address : BLDG 10, ASIA IND PARK, GANGTOU BANTIAN,  
LONGGANG, SHENZHEN, GUANGDONG, 518129,  
CHINA

Prepared by : ACCURATE TECHNOLOGY CO., LTD  
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Report Number : ATE20112851  
Date of Test : January 1-10, 2012  
Date of Report : January 10, 2012

# **TABLE OF CONTENTS**

| Description                                                                          | Page      |
|--------------------------------------------------------------------------------------|-----------|
| Test Report Certification                                                            |           |
| <b>1. GENERAL INFORMATION .....</b>                                                  | <b>4</b>  |
| 1.1. Description of Device (EUT).....                                                | 4         |
| 1.2. Description of Test Facility .....                                              | 5         |
| 1.3. Measurement Uncertainty.....                                                    | 5         |
| <b>2. MEASURING DEVICE AND TEST EQUIPMENT .....</b>                                  | <b>6</b>  |
| <b>3. SUMMARY OF TEST RESULTS.....</b>                                               | <b>7</b>  |
| <b>4. THE FIELD STRENGTH OF RADIATION EMISSION .....</b>                             | <b>8</b>  |
| 4.1. Block Diagram of Test Setup.....                                                | 8         |
| 4.2. The Field Strength of Radiation Emission Measurement Limits.....                | 9         |
| 4.3. Configuration of EUT on Measurement .....                                       | 9         |
| 4.4. Operating Condition of EUT .....                                                | 9         |
| 4.5. Test Procedure .....                                                            | 10        |
| 4.6. The Field Strength of Radiation Emission Measurement Results .....              | 11        |
| <b>5. 20DB OCCUPIED BANDWIDTH .....</b>                                              | <b>13</b> |
| 5.1. Block Diagram of Test Setup.....                                                | 13        |
| 5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section 15.231(c)..... | 13        |
| 5.3. EUT Configuration on Measurement .....                                          | 14        |
| 5.4. Operating Condition of EUT .....                                                | 14        |
| 5.5. Test Procedure .....                                                            | 14        |
| 5.6. Measurement Result .....                                                        | 15        |
| <b>6. RELEASE TIME MEASUREMENT.....</b>                                              | <b>16</b> |
| 6.1. Block Diagram of Test Setup.....                                                | 16        |
| 6.2. Release Time Measurement According To FCC Part 15 Section 15.231(a) .....       | 16        |
| 6.3. EUT Configuration on Measurement .....                                          | 17        |
| 6.4. Operating Condition of EUT .....                                                | 17        |
| 6.5. Test Procedure .....                                                            | 17        |
| 6.6. Measurement Result .....                                                        | 18        |
| <b>7. AVERAGE FACTOR MEASUREMENT .....</b>                                           | <b>19</b> |
| 7.1. Block Diagram of Test Setup.....                                                | 19        |
| 7.2. Average factor Measurement according to ANSI 63.4: 2003.....                    | 19        |
| 7.3. EUT Configuration on Measurement .....                                          | 20        |
| 7.4. Operating Condition of EUT .....                                                | 20        |
| 7.5. Test Procedure .....                                                            | 20        |
| 7.6. Measurement Result .....                                                        | 21        |

APPENDIX I ( TEST CURVES) (10 pages)

## Test Report Certification

Applicant : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD  
Manufacturer : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD  
EUT Description : REMOTE CONTROL UNIT  
(A) MODEL NO.: AS-CF001  
(B) SERIAL NO.: N/A  
(C) POWER SUPPLY: DC 9V ("6F22" batteries 1×)

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.231**  
**ANSI 63.4: 2003**

The device described above is tested by ACCURATE TECHNOLOGY CO., LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.231. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO., LTD 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 ACCURATE TECHNOLOGY CO., LTD.

Date of Test : January 1-10, 2012

Prepared by :

APPLE

(Engineer)

Approved & Authorized Signer :

Heungh

(Manager)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

EUT : REMOTE CONTROL UNIT  
Model Number : AS-CF001

Power Supply : DC 9V (“6F22” batteries 1×)

Operation Frequency : 433.92MHz

Applicant : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD  
Address : BLDG 10, ASIA IND PARK, GANGTOU BANTIAN,  
LONGGANG, SHENZHEN, GUANGDONG, 518129,  
CHINA

Manufacturer : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD  
Address : BLDG 10, ASIA IND PARK, GANGTOU BANTIAN,  
LONGGANG, SHENZHEN, GUANGDONG, 518129,  
CHINA

Date of sample received : January 1, 2012

Date of Test : January 1-10, 2012

1.2.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC  
The Registration Number is 752051

Listed by Industry Canada  
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee  
for Laboratories  
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO., LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.  
Science & Industry Park, Nanshan, Shenzhen, Guangdong  
P.R. China

1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2  
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2  
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2  
(Above 1GHz)

## 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

| Kind of equipment | Manufacturer  | Type               | S/N        | Calibrated until |
|-------------------|---------------|--------------------|------------|------------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30             | 100307     | Jan. 15, 2012    |
| EMI Test Receiver | Rohde&Schwarz | ESPI3              | 101526/003 | Jan. 15, 2012    |
| Spectrum Analyzer | Agilent       | E7405A             | MY45115511 | Jan. 15, 2012    |
| Pre-Amplifier     | Rohde&Schwarz | CBLU118354<br>0-01 | 3791       | Jan. 15, 2012    |
| Loop Antenna      | Schwarzbeck   | FMZB1516           | 1516131    | Jan. 15, 2012    |
| Bilog Antenna     | Schwarzbeck   | VULB9163           | 9163-323   | Jan. 15, 2012    |
| Horn Antenna      | Schwarzbeck   | BBHA9120D          | 9120D-655  | Jan. 15, 2012    |
| Horn Antenna      | Schwarzbeck   | BBHA9170           | 9170-359   | Jan. 15, 2012    |
| LISN              | Rohde&Schwarz | ESH3-Z5            | 100305     | Jan. 15, 2012    |
| LISN              | Schwarzbeck   | NSLK8126           | 8126431    | Jan. 15, 2012    |

### 3. SUMMARY OF TEST RESULTS

| FCC Rules            | Description of Test      | Result    |
|----------------------|--------------------------|-----------|
| Section 15.207       | Conducted Emission       | N/A       |
| Section 15.231(b)    | Radiated Emission        | Compliant |
| Section 15.231(c)    | 20dB Bandwidth           | Compliant |
| Section 15.231(a)(1) | Release Time Measurement | Compliant |

The product is a manually operated Remote Control transmitter.  
Section 15.231 (a) (2), (3), (4) and (5) are not applicable.

## 4. THE FIELD STRENGTH OF RADIATION EMISSION

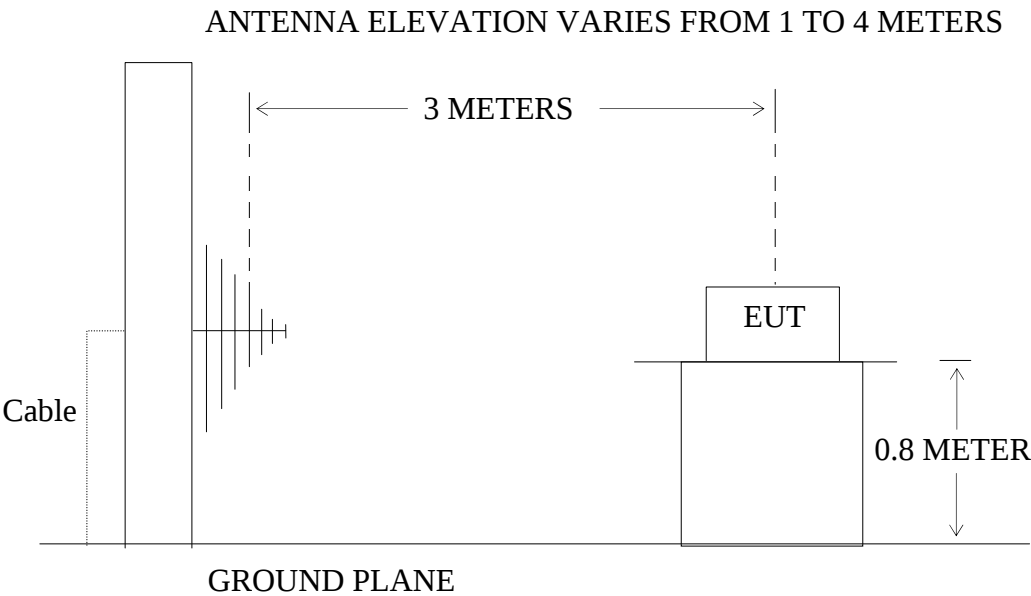
### 4.1. Block Diagram of Test Setup

#### 4.1.1. Block diagram of connection between the EUT and simulators



(EUT: REMOTE CONTROL UNIT)

#### 4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: REMOTE CONTROL UNIT)

## 4.2.The Field Strength of Radiation Emission Measurement Limits

### 4.2.1.Radiation Emission Measurement Limits According to FCC Part 15 Section 15.231(b)

| Frequency Range of Fundamental<br>[MHz] | Field Strength of Fundamental Emission<br>[Average]<br>[μV/m] | Field Strength of Spurious Emission<br>[Average]<br>[μV/m] |
|-----------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| 40.66-40.70                             | 2250                                                          | 225                                                        |
| 70-130                                  | 1250                                                          | 125                                                        |
| 130-174                                 | 1250-3750                                                     | 125-375                                                    |
| 174-260                                 | 3750                                                          | 375                                                        |
| 260-470                                 | 3750-12500                                                    | 375-1250                                                   |
| Above 470                               | 12500                                                         | 1250                                                       |

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz,  $\mu\text{V/m}$  at 3 meters =  $56.81818(F) - 6136.3636$ ; for the band 260-470 MHz,  $\mu\text{V/m}$  at 3 meters =  $41.6667(F) - 7083.3333$ . The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

### 4.2.2.Restricted Band Radiation Emission Measurement Limits According to FCC part 15 Section 15.205 and Section15.209.

## 4.3.Configuration of EUT on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 4.3.1. REMOTE CONTROL UNIT (EUT)

Model Number : AS-CF001  
 Serial Number : N/A  
 Manufacturer : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD

## 4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3. Let the EUT work in TX mode measure it.

#### 4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate AS-CF001 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI 63.4 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120 kHz in 30-1000 MHz, and 1 MHz in 1000-5000 MHz.

The frequency range from 30 MHz to 5000 MHz is checked.

#### 4.6.The Field Strength of Radiation Emission Measurement Results

##### PASS.

The frequency range 30MHz to 5000MHz is investigated.

|               |                     |                |       |
|---------------|---------------------|----------------|-------|
| Date of Test: | January 2, 2012     | Temperature:   | 25°C  |
| EUT:          | REMOTE CONTROL UNIT | Humidity:      | 50%   |
| Model No.:    | AS-CF001            | Power Supply:  | DC 9V |
| Test Mode:    | TX                  | Test Engineer: | Pei   |

| Frequency<br>(MHz) | Reading<br>(dBμV/m) | Factor<br>Corr. | Average<br>Factor | Result(dBμV/m) |              | Limit(dBμV/m) |              | Margin(dB)   |               | Polarization |
|--------------------|---------------------|-----------------|-------------------|----------------|--------------|---------------|--------------|--------------|---------------|--------------|
|                    | PEAK                | (dB)            | (dB)              | AV             | PEAK         | AV            | PEAK         | AV           | PEAK          |              |
| <b>433.9200</b>    | <b>56.34</b>        | <b>22.95</b>    | <b>-4.48</b>      | <b>74.81</b>   | <b>79.29</b> | <b>80.8</b>   | <b>100.8</b> | <b>-5.99</b> | <b>-21.51</b> | Horizontal   |
| 867.8694           | 15.76               | 28.64           | -4.48             | 39.92          | 44.40        | 60.8          | 80.8         | -20.88       | -36.40        |              |
| *1301.813          | 63.15               | -12.20          | -4.48             | 41.99          | 46.47        | 54.0          | 74.0         | -12.01       | -27.53        |              |
| 1735.702           | 62.87               | -10.39          | -4.48             | 48.00          | 52.48        | 60.8          | 80.8         | -12.80       | -28.32        |              |
| 2169.694           | 54.17               | -8.38           | -4.48             | 41.31          | 45.79        | 60.8          | 80.8         | -19.49       | -35.01        |              |
| <b>433.9200</b>    | <b>52.56</b>        | <b>22.95</b>    | <b>-4.48</b>      | <b>71.03</b>   | <b>75.51</b> | <b>80.8</b>   | <b>100.8</b> | <b>-9.50</b> | <b>-25.29</b> | Vertical     |
| 867.8654           | 15.66               | 28.64           | -4.48             | 39.82          | 44.30        | 60.8          | 80.8         | -20.98       | -36.50        |              |
| *1301.770          | 61.96               | -12.20          | -4.48             | 45.28          | 49.76        | 54.0          | 74.0         | -8.72        | -24.24        |              |
| 1735.962           | 62.80               | -10.40          | -4.48             | 47.92          | 52.40        | 60.8          | 80.8         | -12.88       | -28.40        |              |
| 2169.696           | 54.17               | -8.38           | -4.48             | 41.37          | 45.79        | 60.8          | 80.8         | -19.43       | -35.01        |              |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. \*: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

3. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

4. FCC Limit for Average Measurement =  $41.6667(433.92)-7083.3333 = 10996.68116 \mu\text{V/m} = 80.8 \text{ dB}\mu\text{V/m}$

5. Pulse Desensitization Correction Factor

Pulse Width (PW) = 21.97ms

$1/PW = 1/21.97\text{ms} = 0.04552 \text{ kHz}$

RBW (100 kHz) >  $1/PW$  (0.04552 kHz)

Therefore PDCF is not needed

6. The spectral diagrams in appendix I display the measurement of peak values.

## 5. 20DB OCCUPIED BANDWIDTH

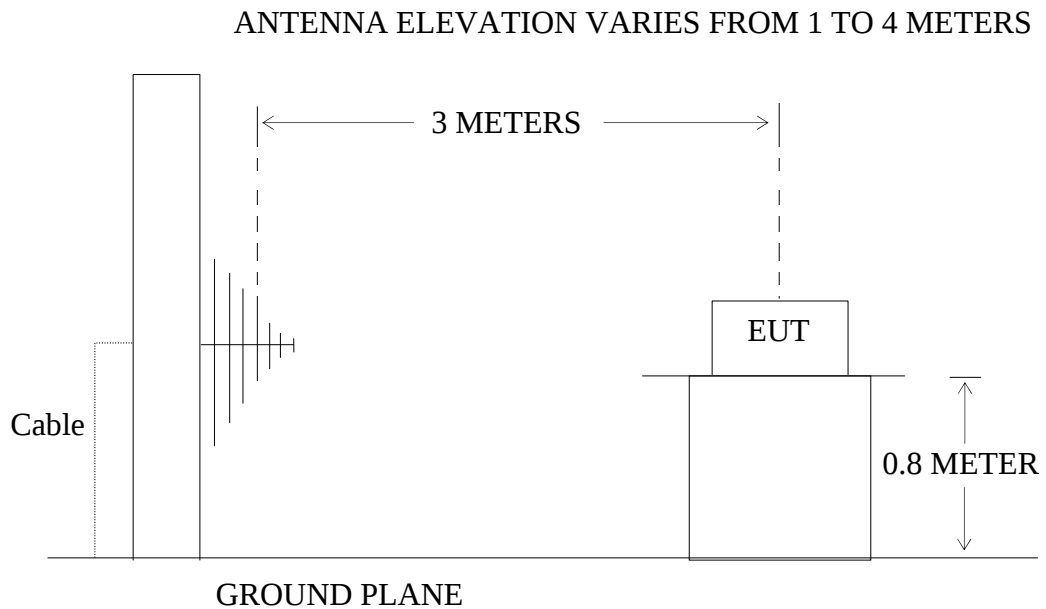
### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block diagram of connection between the EUT and simulators



(EUT: REMOTE CONTROL UNIT)

#### 5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: REMOTE CONTROL UNIT)

### 5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section

#### 15.231(c)

The bandwidth of emission shall be no wider than 0.25% of the center frequency. Therefore, the bandwidth of the emission limit is  $433.92 \text{ MHz} \times 0.25\% = 1084.80 \text{ kHz}$ . Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

### 5.3.EUT Configuration on Measurement

The following equipment are installed on the bandwidth of emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 5.3.1.REMOTE CONTROL UNIT (EUT)

Model Number : AS-CF001  
Serial Number : N/A  
Manufacturer : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD

### 5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in TX mode measure it.

### 5.5.Test Procedure

5.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 10 kHz, VBW = 30 kHz, Span = 500 kHz.

5.5.2.Set SPA Max hold, Mark peak, -20 dB.

## 5.6.Measurement Result

**The EUT does meet the FCC requirement.**

-20 dB bandwidth = 22.00 kHz <1084.80 kHz.

The spectral diagrams in appendix I.

## 6. RELEASE TIME MEASUREMENT

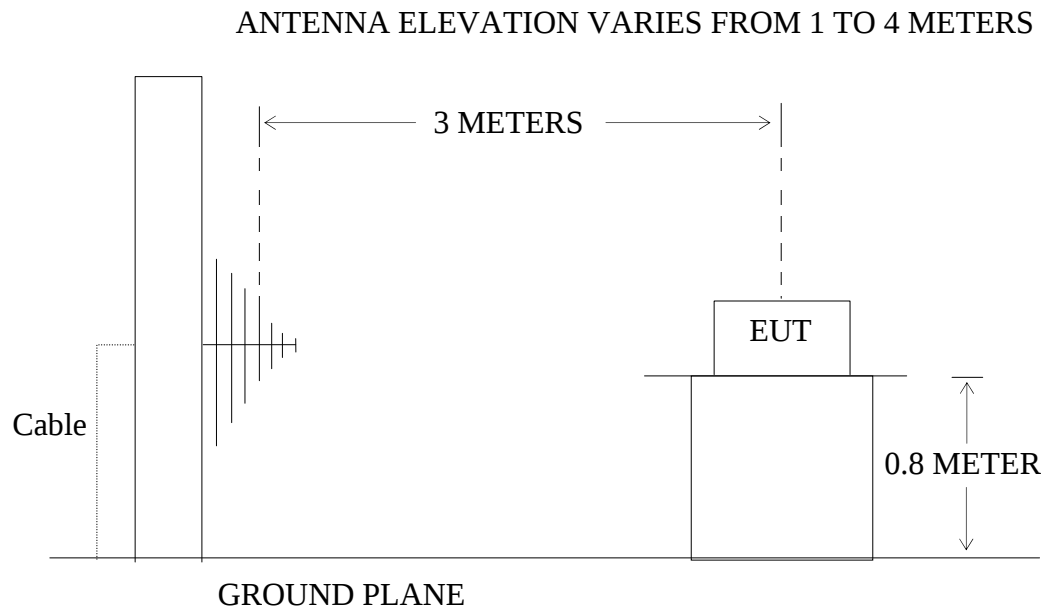
### 6.1. Block Diagram of Test Setup

#### 6.1.1. Block diagram of connection between the EUT and simulators



(EUT: REMOTE CONTROL UNIT)

#### 6.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: REMOTE CONTROL UNIT)

### 6.2. Release Time Measurement According To FCC Part 15 Section 15.231(a)

Section 15.231(a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

### 6.3.EUT Configuration on Measurement

The following equipment are installed on Release Time Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 6.3.1. REMOTE CONTROL UNIT (EUT)

Model Number : AS-CF001  
Serial Number : N/A  
Manufacturer : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD

### 6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX mode measure it.

### 6.5.Test Procedure

6.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz. Sweep time = 5 s.

6.5.2.Set EUT as normal operation and press Transmitter button.

6.5.3.Set SPA View. Delta Mark time.

## 6.6. Measurement Result

**The release time less than 5 seconds.**

Release Time= 2.73s

The spectral diagrams in appendix I.

## 7. AVERAGE FACTOR MEASUREMENT

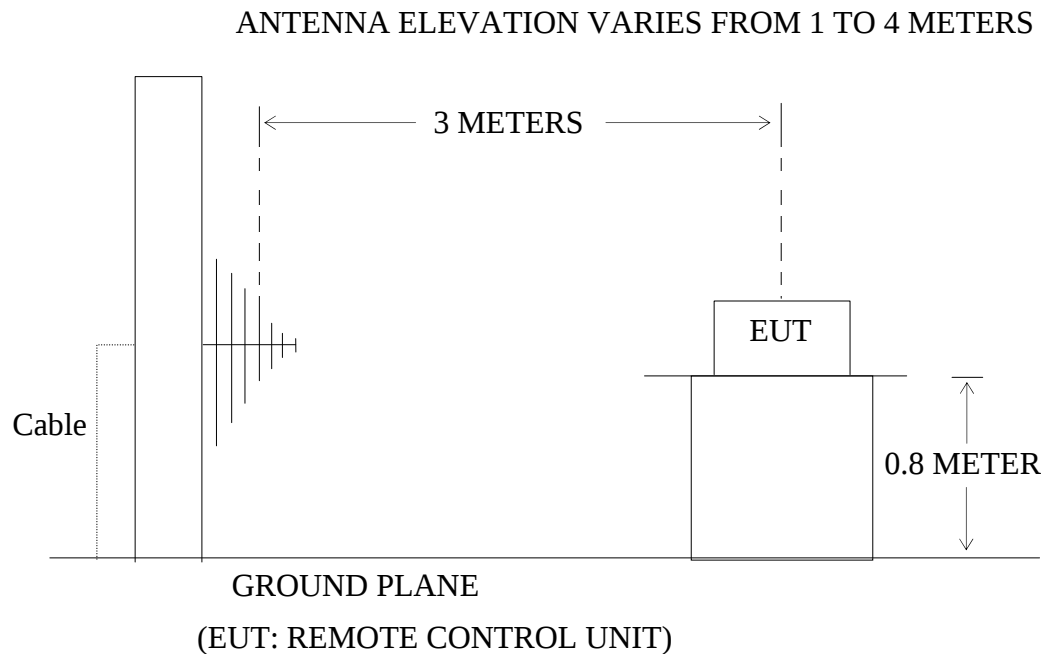
### 7.1. Block Diagram of Test Setup

#### 7.1.1. Block diagram of connection between the EUT and simulators



(EUT: REMOTE CONTROL UNIT)

#### 7.1.2. Semi-Anechoic Chamber Test Setup Diagram



### 7.2. Average factor Measurement according to ANSI 63.4: 2003

**ANSI 63.4: 2003 Section 13.1.4.2** Devices transmitting pulsed emissions and subject to a limit requiring an average detector function for radiated emissions shall initially be measured with an instrument that uses a peak detector. A radiated emission measured with a peak detector may then be corrected to a true average using the appropriate factor for emission duty cycle. This correction factor relates the measured peak level to the average limit and is derived by averaging absolute field strength over one complete pulse train that is 0.1 s, or less, in length. If the pulse train is longer than 0.1 s, the average shall be determined from the average absolute field strength during the 0.1 s interval in which the field strength is at a maximum. Instructions on calculating the duty cycle of a transmitter with pulsed emissions are provided in ANSI 63.4 H.4, step j.

**Average factor in dB =  $20 \log (\text{duty cycle})$**

### 7.3.EUT Configuration on Measurement

The following equipment are installed on average factor Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 7.3.1. REMOTE CONTROL UNIT (EUT)

Model Number : AS-CF001  
Serial Number : N/A  
Manufacturer : SHENZHEN ASIA BRIGHT INDUSTRY CO LTD

### 7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX mode measure it.

### 7.5.Test Procedure

7.5.1.The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation.

7.5.2.Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz.

7.5.3.Set EUT as normal operation.

7.5.4.Set SPA View. Delta Mark time.

## 7.6. Measurement Result

**The duty cycle is simply the on time divided by the period:**

The duration of one cycle = 36.80 ms

Effective period of the cycle =  $(0.51 \times 17) + (0.95 \times 14)$  ms = 21.97 ms

DC = 21.97 ms / 36.80 ms = 0.597

**Therefore, the average factor is found by  $20\log 0.597 = -4.48$  dB**

The spectral diagrams in appendix I.

# APPENDIX I (Test Curves)


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1692

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 24 C / 48 %

EUT: REMOTE CONTROL UNIT

Mode: TX

Model: AS-CF001

Manufacturer: ASIA

Polarization: Horizontal

Power Source: DC 9V

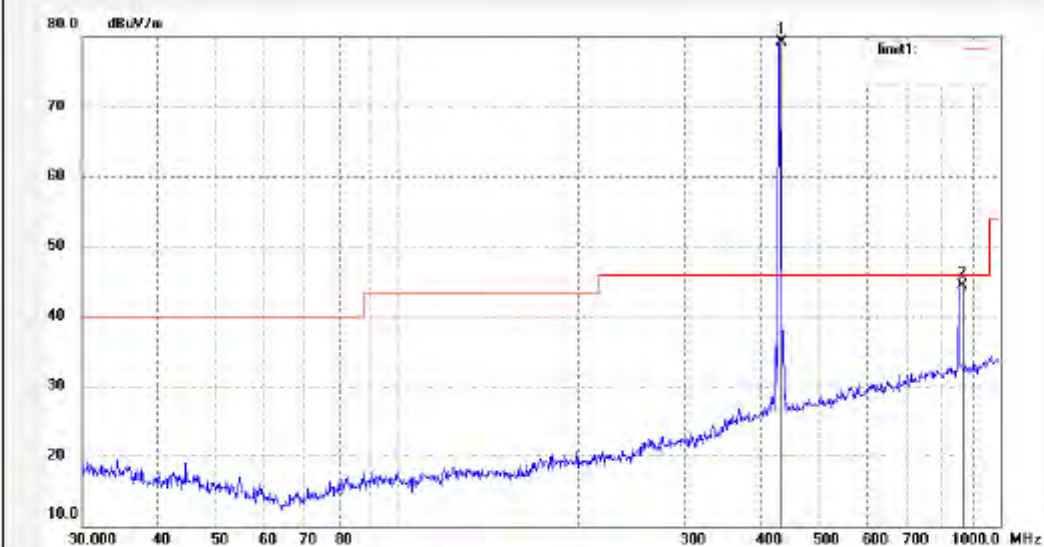
Date: 2012/01/02

Time: 17:14:23

Engineer Signature: Kai

Distance: 3m

Note: Report No.: ATE20112851



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 433.9200       | 56.34               | 22.95          | 79.29              | 100.80            | -21.51         | peak     |                |                  |        |
| 2   | 867.8694       | 15.76               | 28.64          | 44.40              | 80.80             | -36.40         | peak     |                |                  |        |


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1689

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 24 C / 48 %

EUT: REMOTE CONTROL UNIT

Mode: TX

Model: AS-CF001

Manufacturer: ASIA

Polarization: Horizontal

Power Source: DC 9V

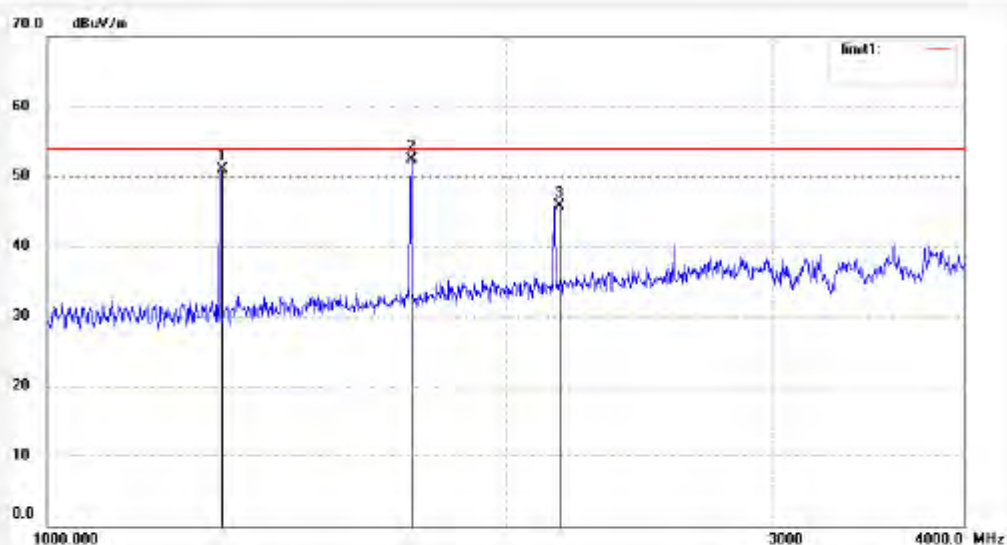
Date: 2012/01/02

Time: 17:02:06

Engineer Signature: Kai

Distance: 3m

Note: Report No.:ATE20112851



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 1301.813       | 63.15               | -12.20         | 50.95              | 74.00             | -23.05         | peak     |                |                  |        |
| 2   | 1735.702       | 62.87               | -10.39         | 52.48              | 80.80             | -28.32         | peak     |                |                  |        |
| 3   | 2189.694       | 54.17               | -8.38          | 45.79              | 80.80             | -35.01         | peak     |                |                  |        |


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 986 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1691

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 24 C / 48 %

EUT: REMOTE CONTROL UNIT

Mode: TX

Model: AS-CF001

Manufacturer: ASIA

Polarization: Vertical

Power Source: DC 9V

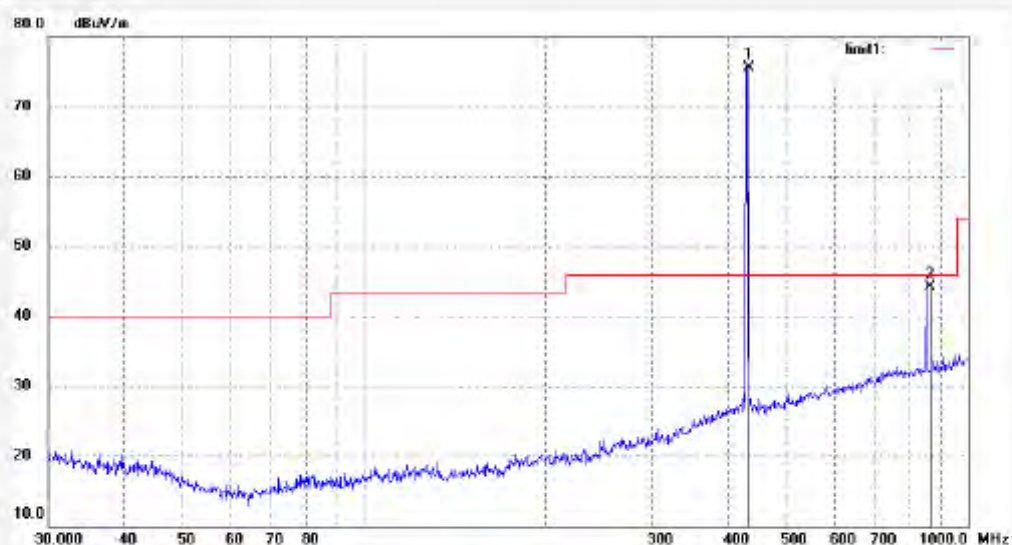
Date: 2012/01/02

Time: 17:10:00

Engineer Signature: Kai

Distance: 3m

Note: Report No.:ATE20112851



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 433.9200       | 52.56               | 22.95          | 75.51              | 100.80            | -25.29         | peak     |                |                  |        |
| 2   | 867.8654       | 15.66               | 28.64          | 44.30              | 80.80             | -36.50         | peak     |                |                  |        |


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1690

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 24 C / 48 %

EUT: REMOTE CONTROL UNIT

Mode: TX

Model: AS-CF001

Manufacturer: ASIA

Polarization: Vertical

Power Source: DC 9V

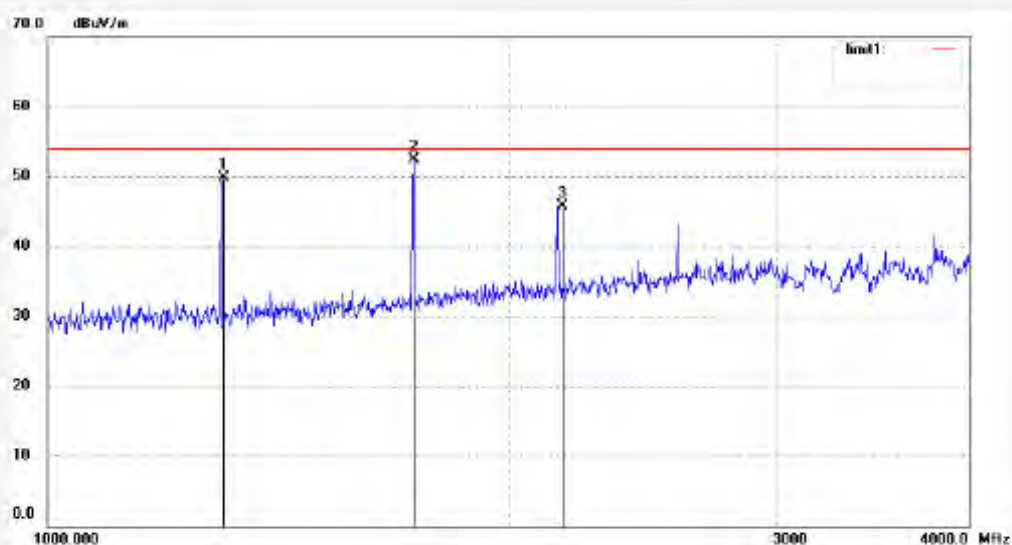
Date: 2012/01/02

Time: 17:05:32

Engineer Signature: Kai

Distance: 3m

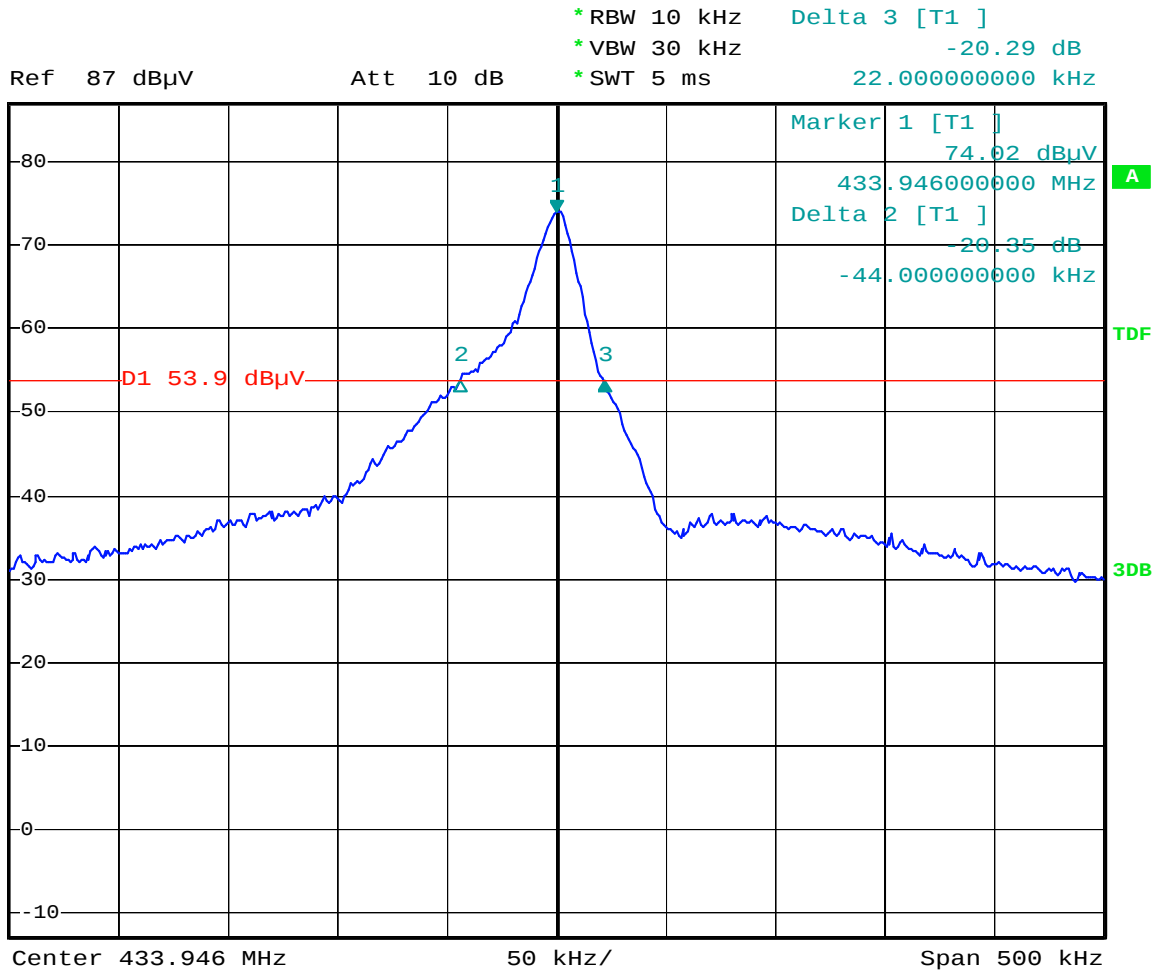
Note: Report No.:ATE20112851

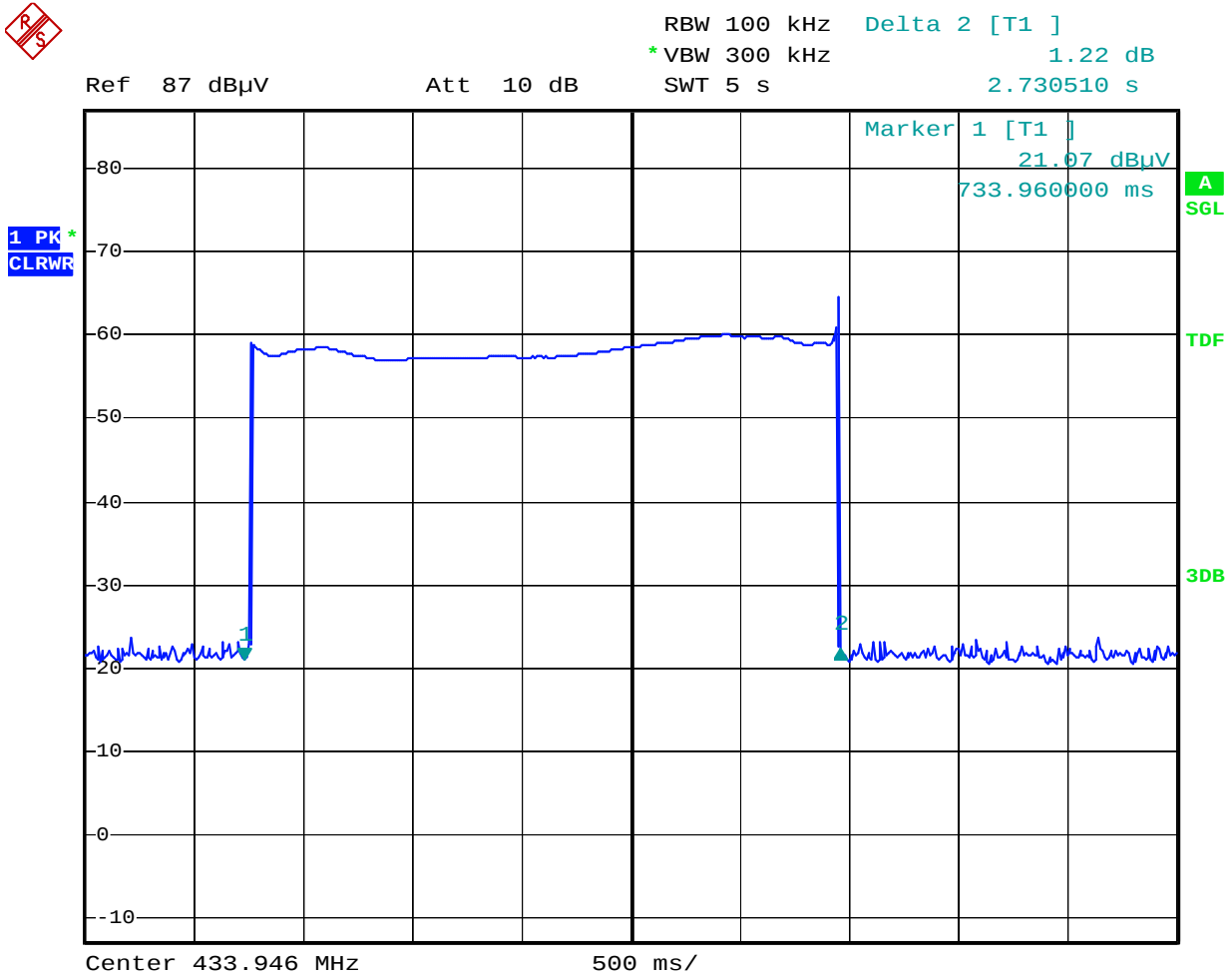


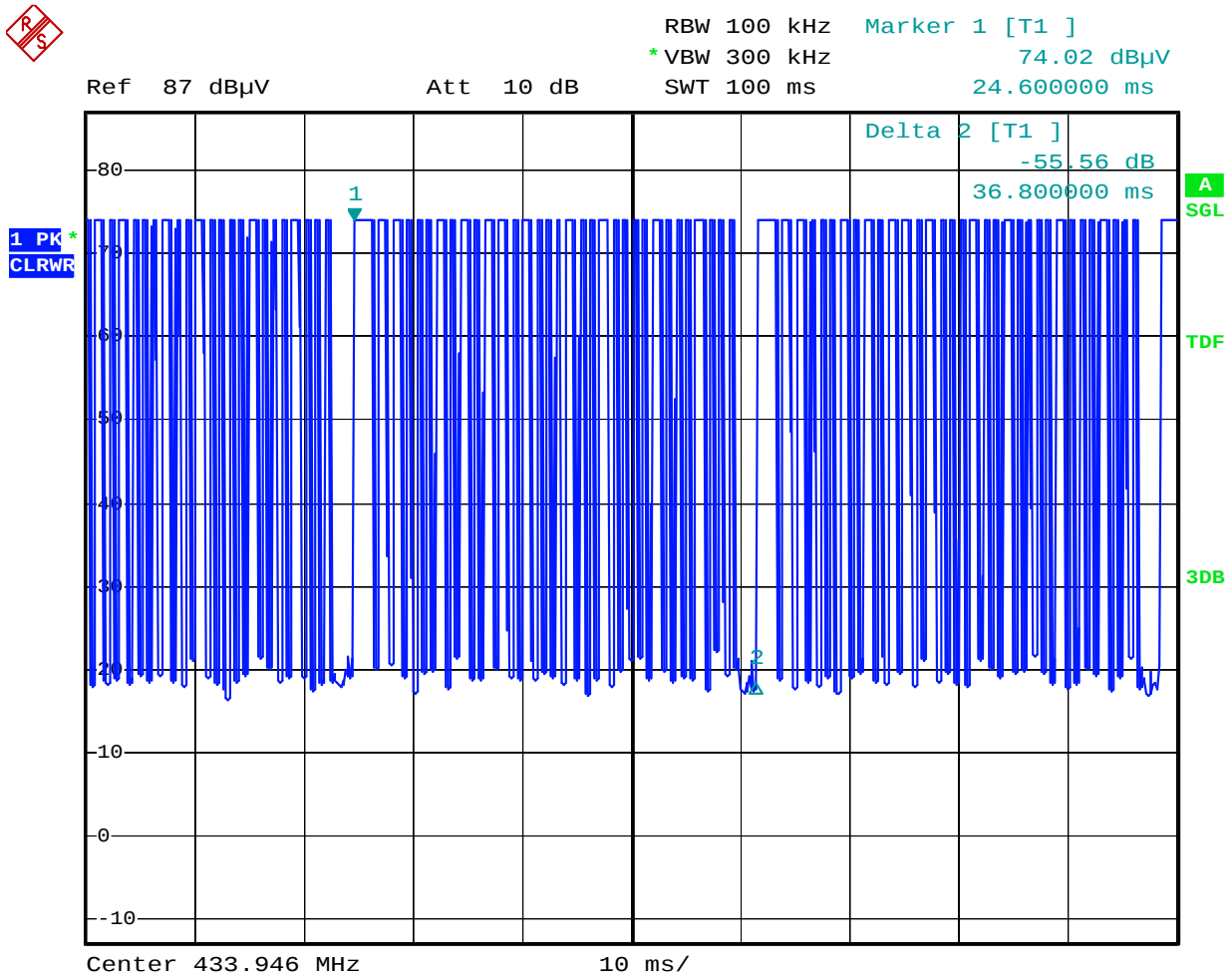
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 1301.770    | 61.96            | -12.20      | 49.76           | 74.00          | -24.24      | peak     |             |               |        |
| 2   | 1735.962    | 62.80            | -10.40      | 52.40           | 80.80          | -28.40      | peak     |             |               |        |
| 3   | 2169.696    | 54.17            | -8.38       | 45.79           | 80.80          | -35.01      | peak     |             |               |        |



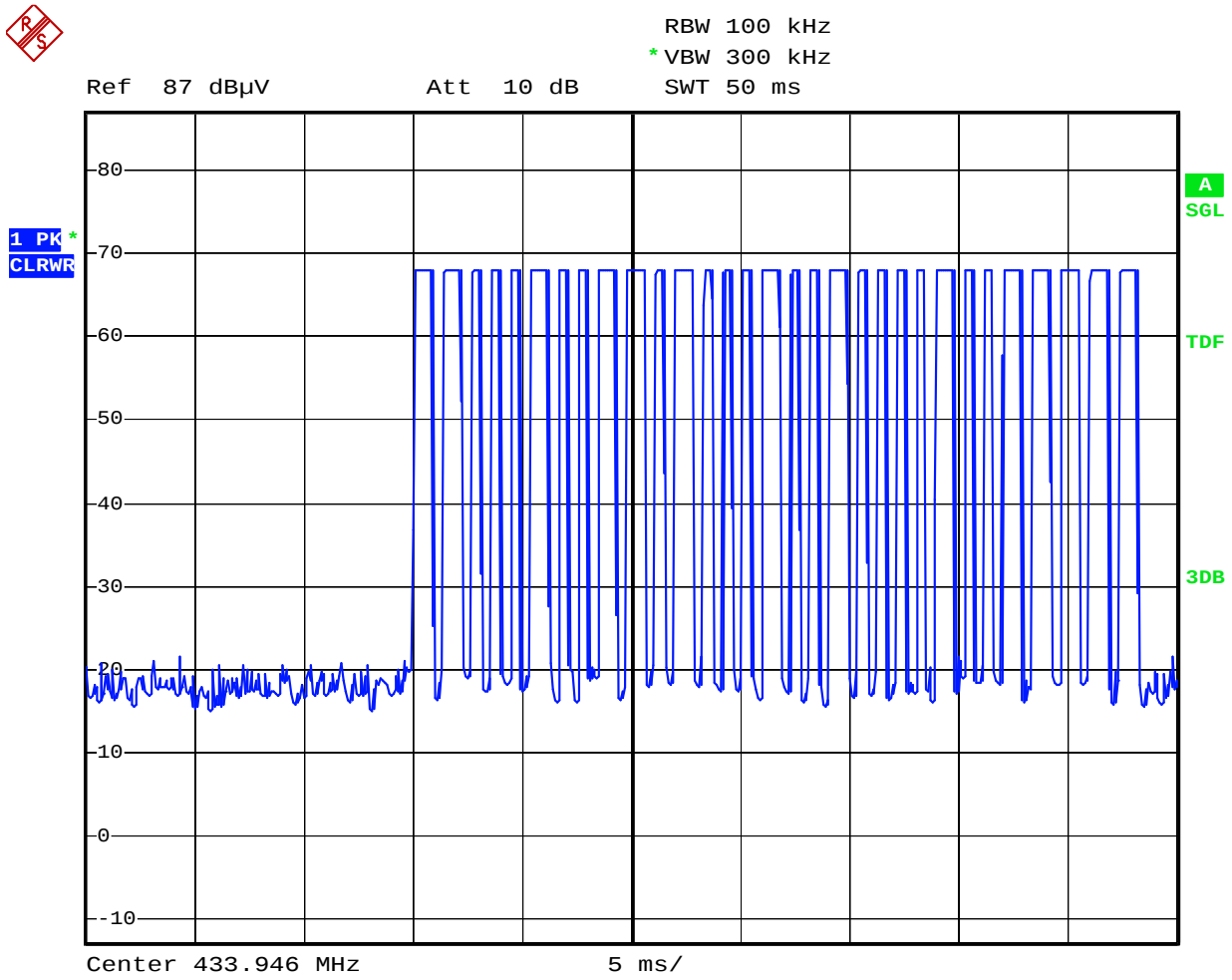
1 PK  
MAXH



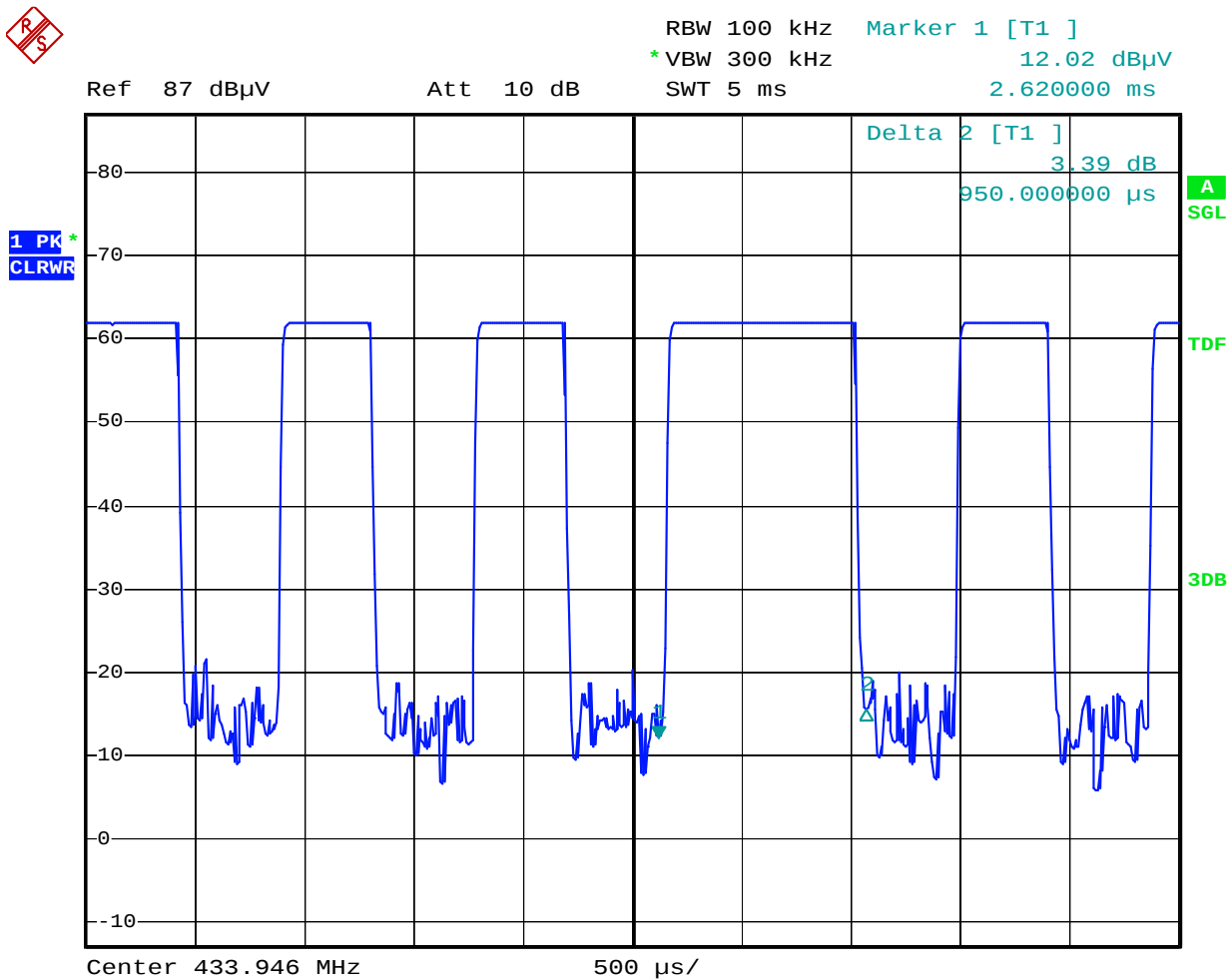




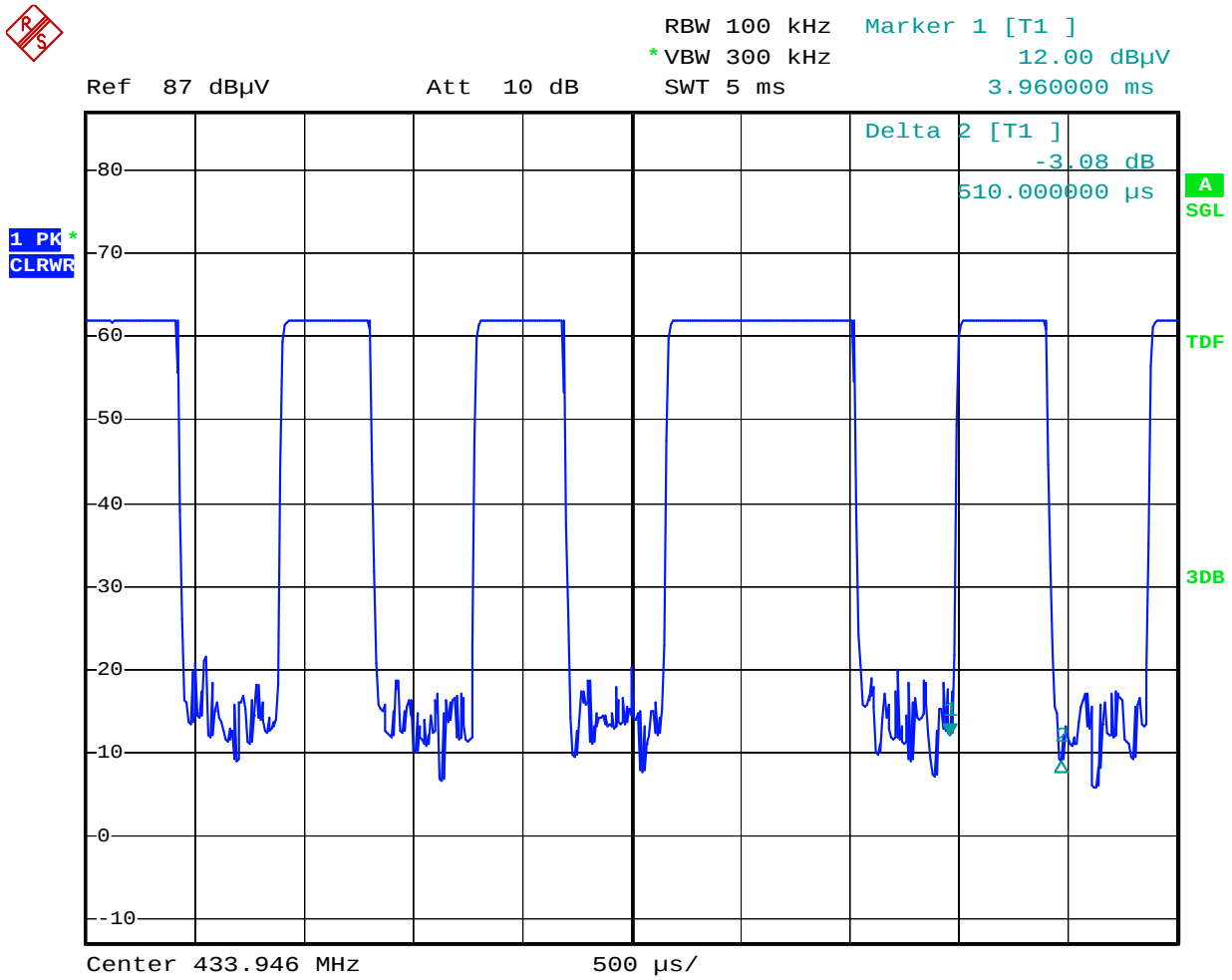
The graph shows the pattern of coding during the signal transmission.  
The duration of one cycle = 36.8 ms.



The graph shows the pattern of coding during the signal transmission.



The graph shows the duration of 'on' signal. From marker 1 to marker 2, duration is 0.95 ms.



The graph shows the duration of 'on' signal. From marker 1 to marker 2, duration is 0.51 ms.