

APPLICATION CERTIFICATION
On Behalf of
Zhejiang Mingshuo Energy-Saving Technology Inc.

Wireless remote control
Model No.: GV1000-2B, GV1000-2G, GV1000-4G, GV1000-8, GV1000-12

FCC ID: 2AGO9-GV1000-2B

Prepared for : Zhejiang Mingshuo Energy-Saving Technology Inc.
Address : No 68. Zhenhua Road, Jiashan, Zhejiang, China
Prepared by : ACCURATE TECHNOLOGY CO., LTD
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Report Number : ATE20152455
Date of Test : Nov 16-24, 2015
Date of Report : Nov 25, 2015

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Test Report Certification

Applicant : Zhejiang Mingshuo Energy-Saving Technology Inc.

Manufacturer : Shenzhen peng view technology co., LTD

EUT Description : Wireless remote control

Trade Mark :



Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.231a
ANSI C63.10-2013**

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 15.231a. 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.

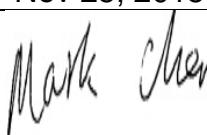
Date of Test :

Nov 16-24, 2015

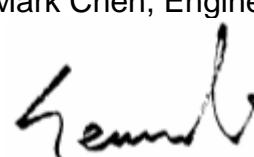
Date of Report :

Nov 25, 2015

Prepared by :


(Mark Chen, Engineer)

Approved & Authorized Signer :


(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | |
|-------------------------|---|
| EUT | : Wireless remote control |
| Model Number | : GV1000-2B, GV1000-2G, GV1000-4G, GV1000-8, GV1000-12 (Note: The internal structure is the same, The structure size is different. So we prepare GV1000-2B for test only.) |
| Power Supply | : DC 12V (battery) |
| Modulation: | : ASK |
| antenna gain | : 1.5dBi |
| Operation Frequency | : 433.92MHz |
| Type of Antenna | : Integral antenna |
| Applicant | : Zhejiang Mingshuo Energy-Saving Technology Inc. |
| Address | : No 68. Zhenhua Road, Jiashan, Zhejiang, China |
| Manufacturer | : Shenzhen peng view technology co., LTD |
| Address | : No 18, 1 Road, Henggang Town, Longgang District, Shenzhen |
| Date of sample received | : Nov 16, 2015 |
| Date of Test | : Nov 16-24, 2015 |

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 (9kHz-30MHz) | = | 3.08dB, k=2 |
| Radiated emission expanded uncertainty (30MHz-1000MHz) | = | 4.42dB, k=2 |
| Radiated emission expanded uncertainty (Above 1GHz) | = | 4.06dB, k=2 |

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

| Kind of equipment | Manufacturer | Type | S/N | Calibrated dates | Cal. Interval |
|--------------------|---------------------------|---|------------|------------------|---------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan. 10, 2015 | One Year |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 10, 2015 | One Year |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 10, 2015 | One Year |
| Pre-Amplifier | Rohde&Schwarz | CBLU118354 0-01 | 3791 | Jan. 10, 2015 | One Year |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 15, 2015 | One Year |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 15, 2015 | One Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 15, 2015 | One Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1067 | Jan. 15, 2015 | One Year |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 10, 2015 | One Year |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 10, 2015 | One Year |
| Highpass Filter | Wainwright Instruments | WHKX3.6/18 G-10SS | N/A | Jan. 10, 2015 | One Year |
| Band Reject Filter | Wainwright Instruments | WRCG2400/2 485-2375/2510 -60/11SS | N/A | Jan. 10, 2015 | One Year |

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 |
| Section 15.203 | Antenna Requirement | Compliant |

The product is a manually operated transmitter.

Section 15.231 (a) (2), (3), (4) and (5) are not applicable.

All normal using modes of the normal function were tested but only the worst test data of the worst mode is recorded by this report.

4. THE FIELD STRENGTH OF RADIATION EMISSION

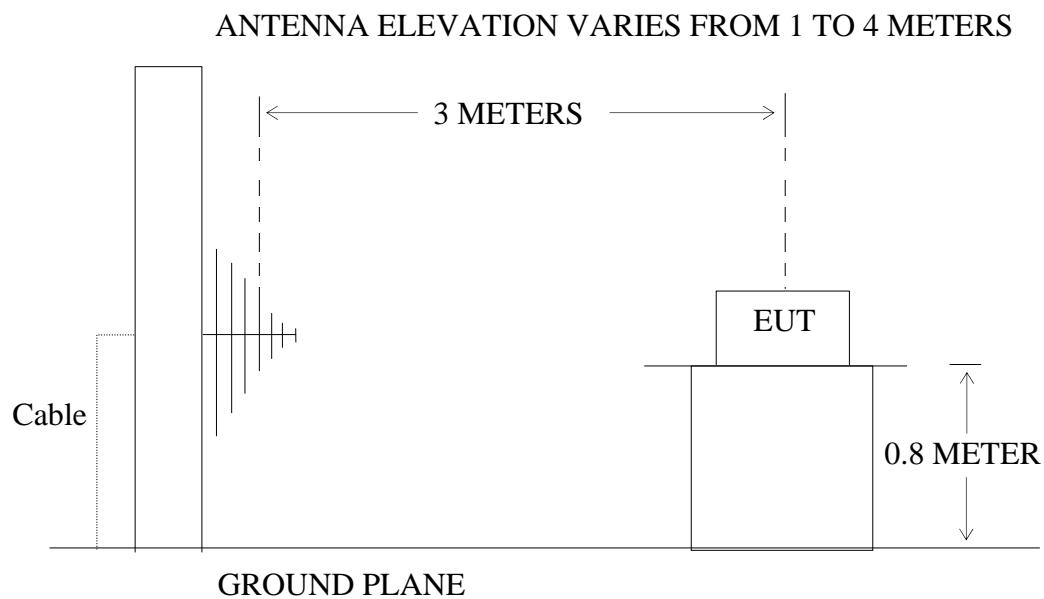
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote control)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless remote control)

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 [MHz] | Field Strength of Fundamental Emission [Average] [μ V/m] | Field Strength of Spurious Emission [Average] [μ V/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, μ V/m at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, μ 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. Wireless remote control (EUT)

Model Number : GV1000-2B
Serial Number : N/A
Manufacturer : Shenzhen peng view technology 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(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 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 C63.10:2013 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 1000-4000 MHz.

The frequency range from 30 MHz to 4000 MHz is checked.

4.6.The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 4000MHz is investigated.

| | | | | | | | | |
|------------|-------------------------|--|--|--|--|--|--|--|
| EUT: | Wireless remote control | | | | | | | |
| Model No.: | GV1000-2B | | | | | | | |
| Test Mode: | TX | | | | | | | |

| Frequency (MHz) | Reading (dB μ V/m) | Factor Corr. | Average Factor | Result(dB μ V/m) | | Limit(dB μ V/m) | | Margin(dB) | | Polarization |
|--------------------|---------------------------|-----------------|-------------------|----------------------|--------------|---------------------|---------------|---------------|---------------|--------------|
| | PEAK | (dB) | (dB) | AV | PEAK | AV | PEAK | AV | PEAK | |
| 433.92 | 96.66 | -13.51 | -8.64 | 74.51 | 83.15 | 80.8 | 100.80 | -6.29 | -17.65 | Horizontal |
| 867.64 | 60.63 | -5.01 | -8.64 | 46.98 | 55.62 | 60.80 | 80.80 | -13.82 | -25.18 | |
| 1234 | 56.25 | -12.48 | -8.64 | 35.13 | 43.77 | 54.00 | 74.00 | -18.87 | -30.23 | |
| 1331 | 51.36 | -12.24 | -8.64 | 30.48 | 39.12 | 54.00 | 74.00 | -23.52 | -34.88 | |
| 1852 | 47.20 | -9.53 | -8.64 | 29.03 | 37.67 | 54.00 | 74.00 | -24.97 | -36.33 | |
| 433.92 | 85.99 | -13.51 | -8.64 | 63.84 | 72.48 | 80.8 | 100.80 | -16.96 | -28.32 | Vertical |
| 867.64 | 58.38 | -5.01 | -8.64 | 44.73 | 53.37 | 60.8 | 80.80 | -16.07 | -27.43 | |
| 1301 | 46.06 | -12.24 | -8.64 | 25.18 | 33.82 | 60.8 | 80.80 | -35.62 | -46.98 | |
| 1387 | 52.52 | -9.54 | -8.64 | 34.34 | 42.98 | 54.00 | 74.00 | -19.66 | -31.02 | |
| 2169 | 48.66 | -8.42 | -8.64 | 31.6 | 40.24 | 60.8 | 80.80 | -29.20 | -40.56 | |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. 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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. FCC Limit for Average Measurement = $41.6667(433.92)-7083.3333 = 10996.6812 \mu\text{V/m} = 80.8 \mu\text{V/m}$
4. The spectral diagrams in appendix I display the measurement of peak values.
5. Average value= PK value + Average Factor (duty factor)
6. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.
7. The EUT is tested radiation emission in three axes(X,Y,Z). The worst emissions are reported in three axes.

8. Pulse Desensitization Correction Factor

Pulse Width (PW) = 0.3ms

$2/\text{PW} = 2/0.3\text{ms} = 6.7\text{kHz}$

RBW (100 kHz) > 2/PW (6.7 kHz)

Therefore PDCF is not needed

5. 20DB OCCUPIED BANDWIDTH

5.1. Block Diagram of Test Setup

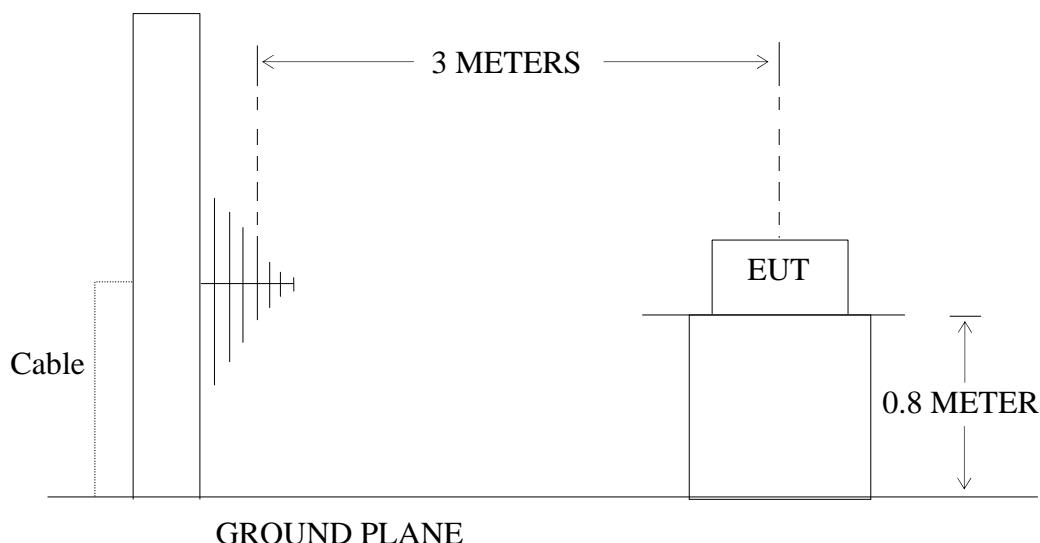
5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote control)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless remote control)

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 $433.92 \text{ MHz} \times 0.25\% = 1084.8 \text{ kHz}$. 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.Wireless remote control (EUT)

Model Number : GV1000-2B
Serial Number : N/A
Manufacturer : Shenzhen peng view Technology 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 = 1MHz.

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 = 44 kHz < 1084.8 kHz.

The spectral diagrams in appendix I.

6. RELEASE TIME MEASUREMENT

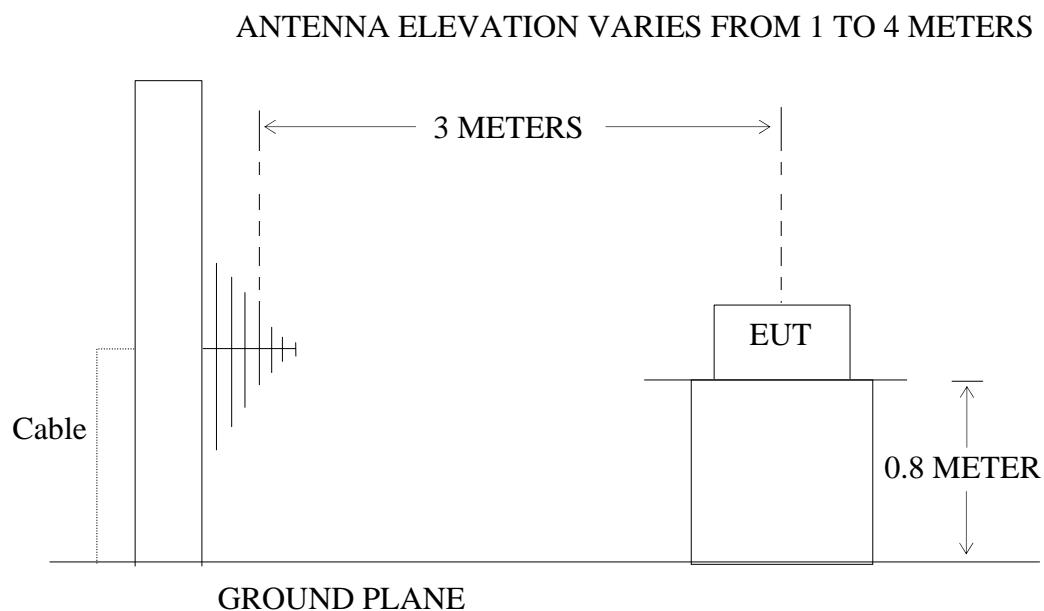
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote control)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless remote control)

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. Wireless remote control (EUT)

Model Number : GV1000-2B
Serial Number : N/A
Manufacturer : Shenzhen peng view technology 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 = 10 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 = 0.85ms

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

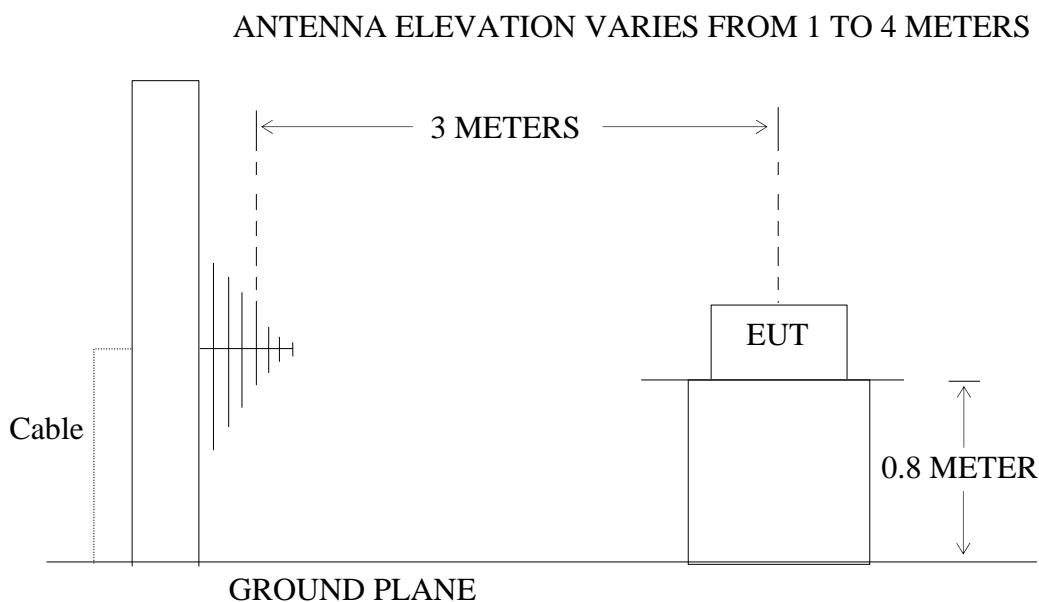
7.1. Block Diagram of Test Setup

7.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote control)

7.1.2. Semi-Anechoic Chamber Test Setup Diagram



7.2. Average factor Measurement according to ANSI C63.10-2013

ANSI C63.10-2013 Section 7.5 Unless otherwise specified, when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 s (100 ms). In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval.⁶⁴ The following procedure is an example of how the average value may be determined. The average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor (in dB) associated with the pulse modulation as shown in Equation (10):

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

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. Wireless remote control (EUT)

Model Number : GV1000-2B
Serial Number : N/A
Manufacturer : Shenzhen peng view technology 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 = 29.8ms

Effective period of the cycle = $(0.3 \times 13) + (0.78 \times 9)$ ms = 10.92 ms

DC = 10.92ms / 29.88ms = 0.37

Therefore, the average factor is found by $20\log 0.37 = -8.64$ dB

The spectral diagrams in appendix I.

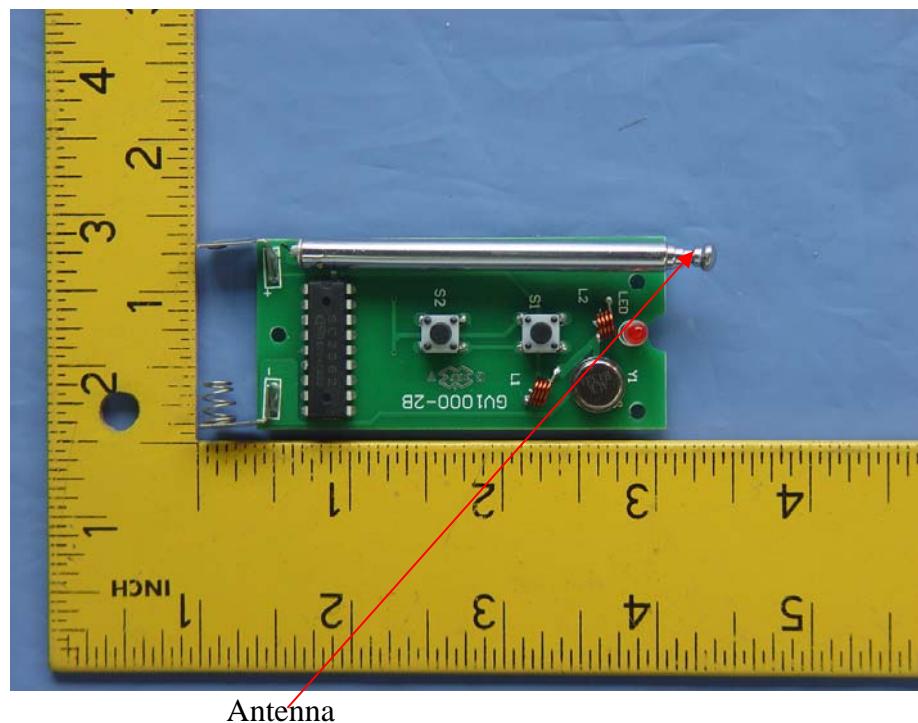
8. ANTENNA REQUIREMENT

8.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2. Antenna Construction

Device is equipped with Integral antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 1.5dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



APPENDIX I (Test Curves)



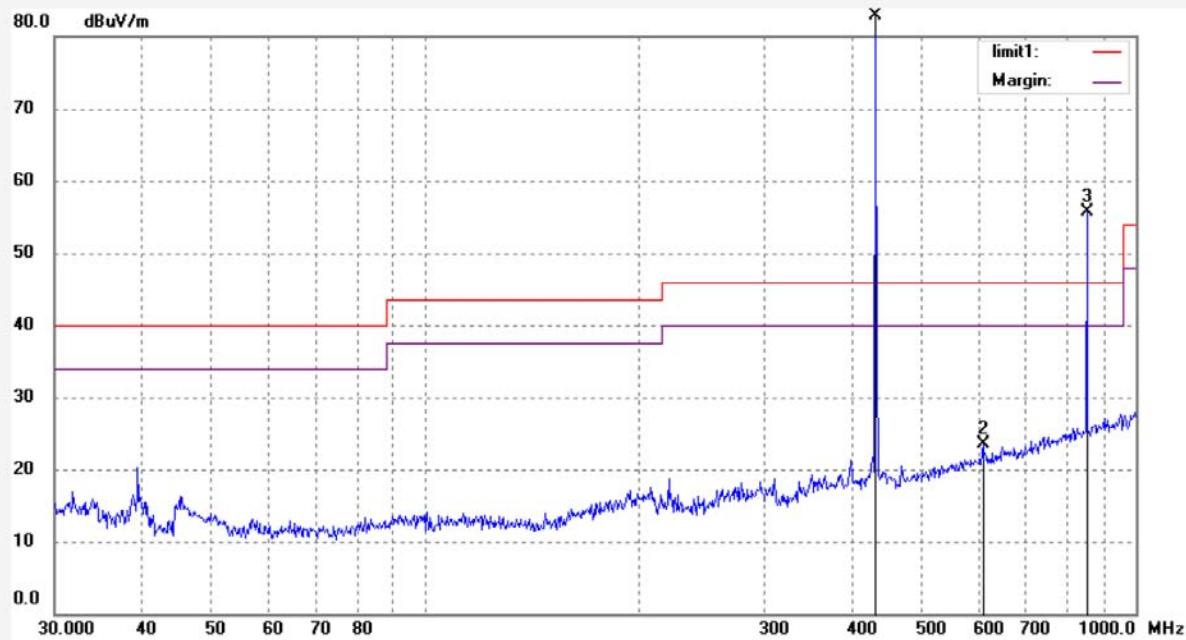
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: ricky 2015 #1012 Polarization: Horizontal
Standard: FCC Class B 3M Radiated Power Source: DC 12V
Test item: Radiation Test Date: 15/11/20/
Temp. (C)/Hum.(%) 25 C / 55 % Time: 9/57/37
EUT: Wireless remote control Engineer Signature: Ricky
Mode: TX Distance: 3m
Model: GV1000-2B
Manufacturer: PENGJING

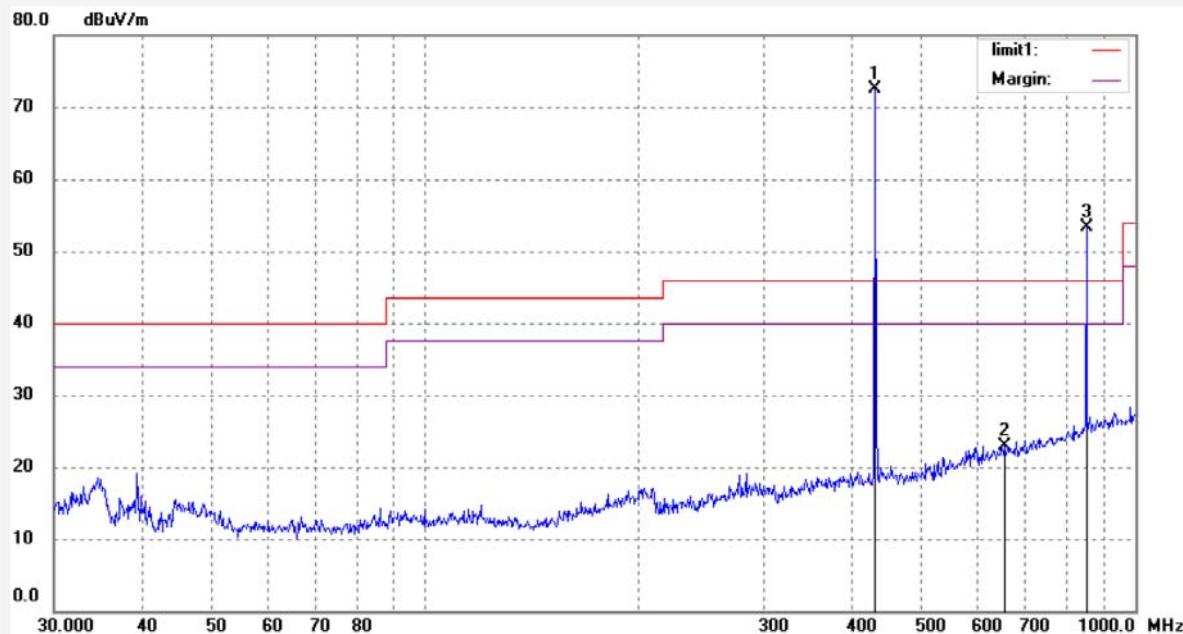
Note: Report NO.:ATE20152455



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 433.92 | 96.66 | -13.51 | 83.15 | 100.80 | -17.65 | peak | | | |
| 2 | 609.32 | 33.11 | -9.70 | 23.41 | 46.00 | -22.59 | peak | | | |
| 3 | 867.84 | 60.63 | -5.01 | 55.62 | 80.80 | -25.18 | peak | | | |

Job No.: ricky 2015 #1011 Polarization: Vertical
 Standard: FCC Class B 3M Radiated Power Source: DC 12V
 Test item: Radiation Test Date: 15/11/20/
 Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/56/48
 EUT: Wireless remote control Engineer Signature: Ricky
 Mode: TX Distance: 3m
 Model: GV1000-2B
 Manufacturer: PENGJING

Note: Report NO.:ATE20152455



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 433.92 | 85.99 | -13.51 | 72.48 | 100.80 | -28.32 | peak | | | |
| 2 | 653.67 | 31.72 | -8.79 | 22.93 | 46.00 | -23.07 | peak | | | |
| 3 | 867.84 | 58.38 | -5.01 | 53.37 | 80.80 | 27.43 | peak | | | |



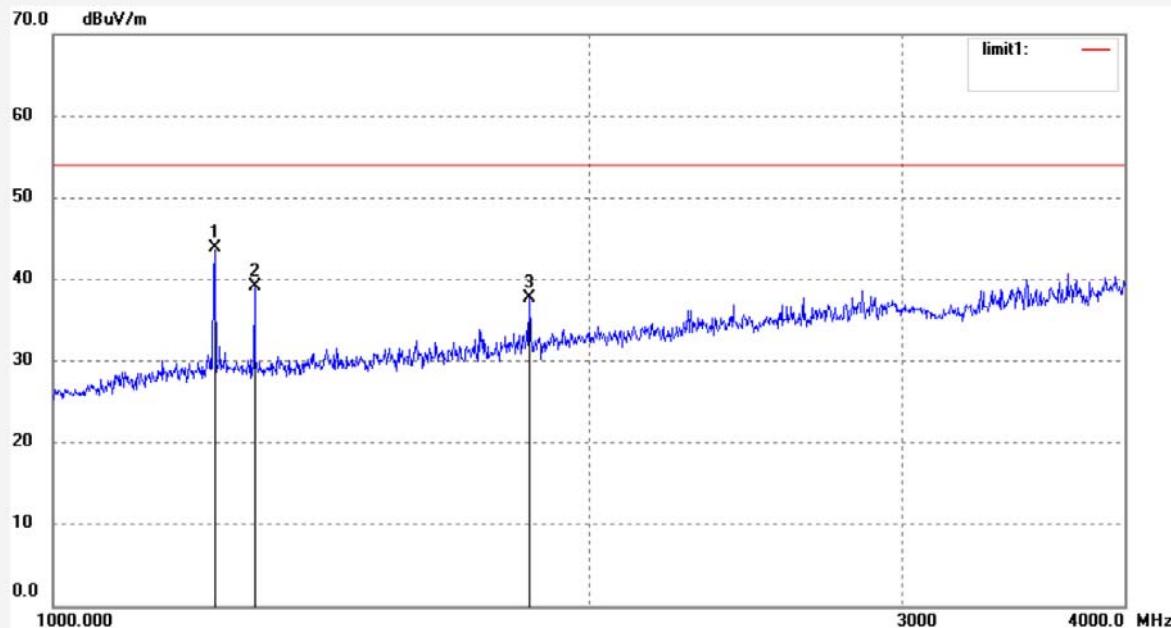
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|-----------------------------------|---------------------------|
| Job No.: ricky 2015 #1008 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: DC 12V |
| Test item: Radiation Test | Date: 2015/11/17 |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 2:32:45 |
| EUT: Wireless remote control | Engineer Signature: Ricky |
| Mode: TX | Distance: 3m |
| Model: GV1000-2B | |
| Manufacturer: PENGJING | |

Note: Report NO.:ATE20152455

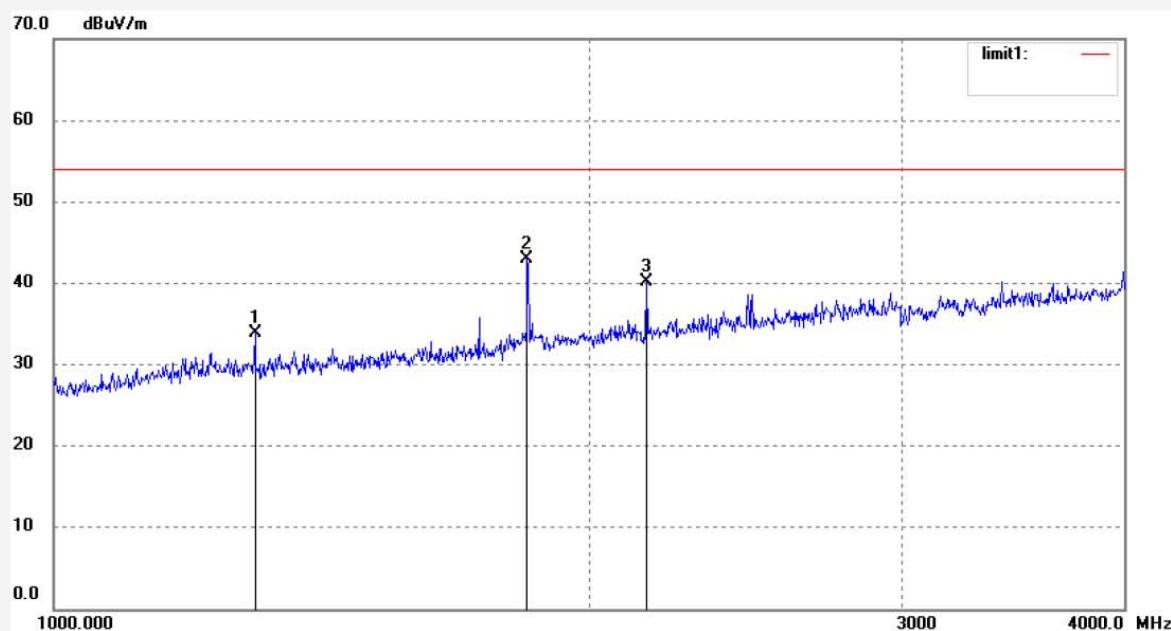


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1233.691 | 56.25 | -12.48 | 43.77 | 74.00 | -30.23 | peak | | | |
| 2 | 1330.970 | 51.36 | -12.24 | 39.12 | 74.00 | -34.89 | peak | | | |
| 3 | 1852.323 | 47.20 | -9.53 | 37.67 | 74.00 | -36.33 | peak | | | |

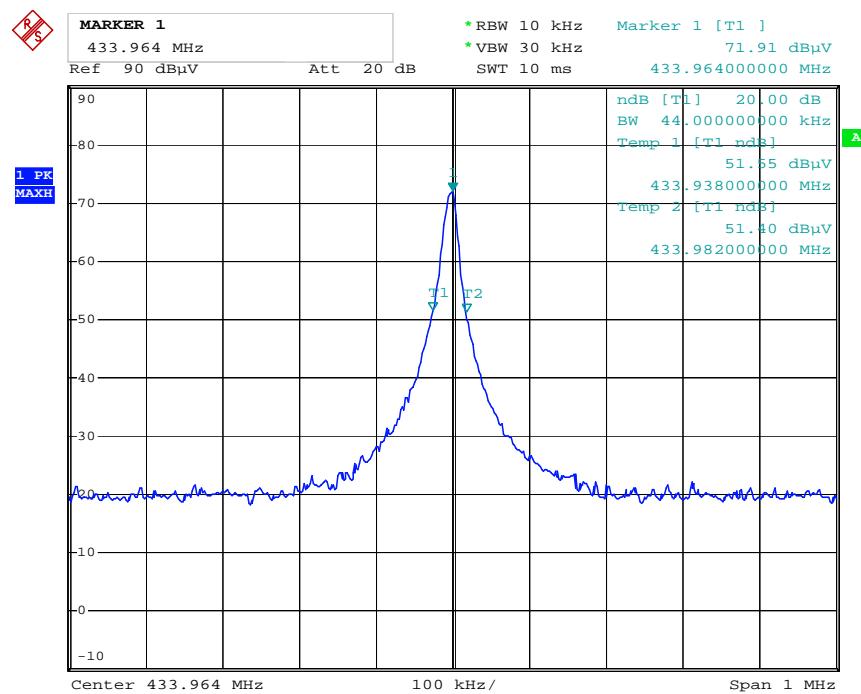
Job No.: ricky 2015 #1007
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wireless remote control
 Mode: TX
 Model: GV1000-2B
 Manufacturer: PENGJING

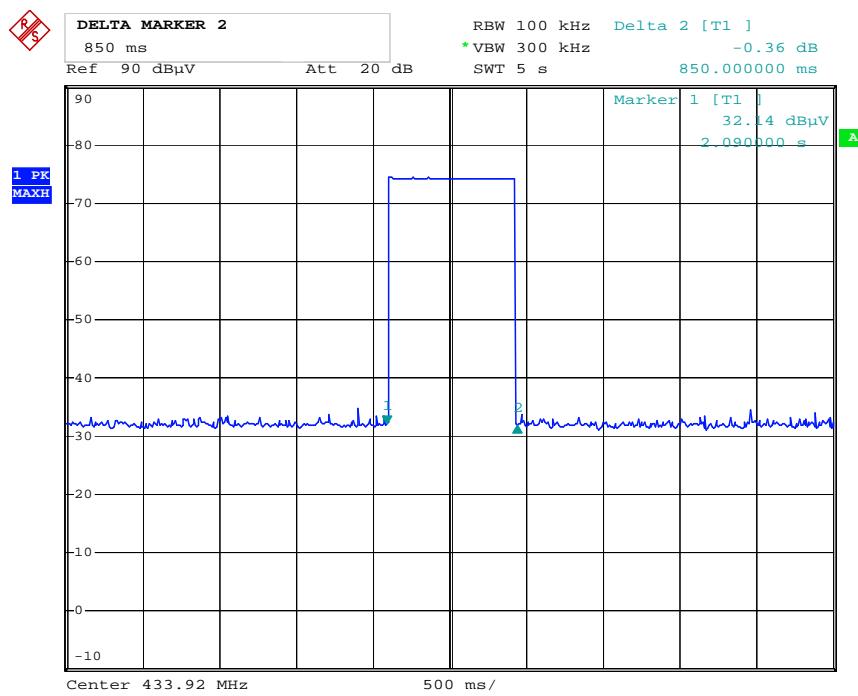
Polarization: Vertical
 Power Source: DC 12V
 Date: 2015/11/17
 Time: 2:30:50
 Engineer Signature: Ricky
 Distance: 3m

Note: Report NO.:ATE20152455



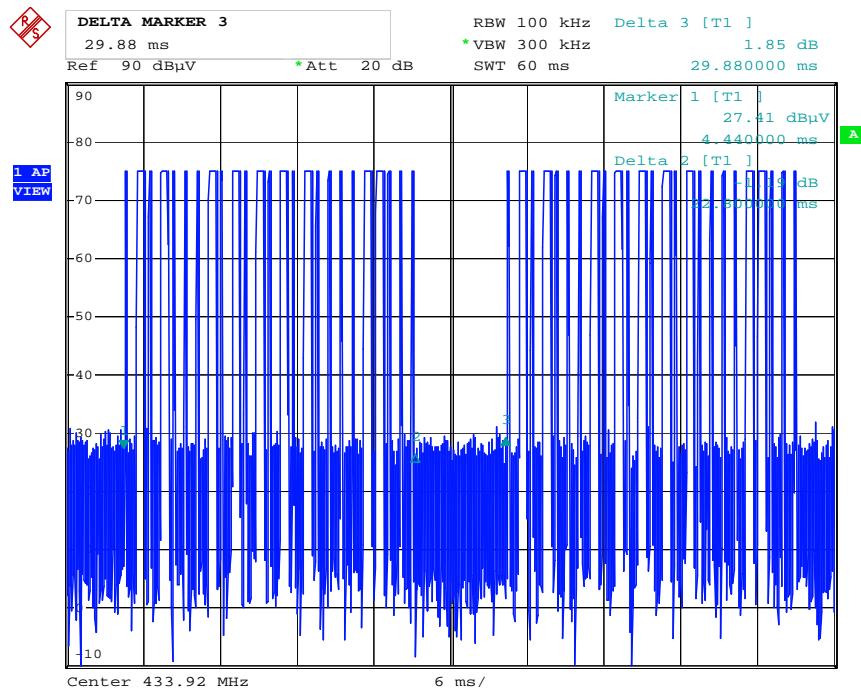
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1300.970 | 46.06 | -12.24 | 33.82 | 80.80 | -49.98 | peak | | | |
| 2 | 1837.164 | 52.52 | -9.54 | 42.98 | 74.00 | -31.02 | peak | | | |
| 3 | 2169.041 | 48.66 | -8.42 | 40.24 | 80.80 | -38.56 | peak | | | |

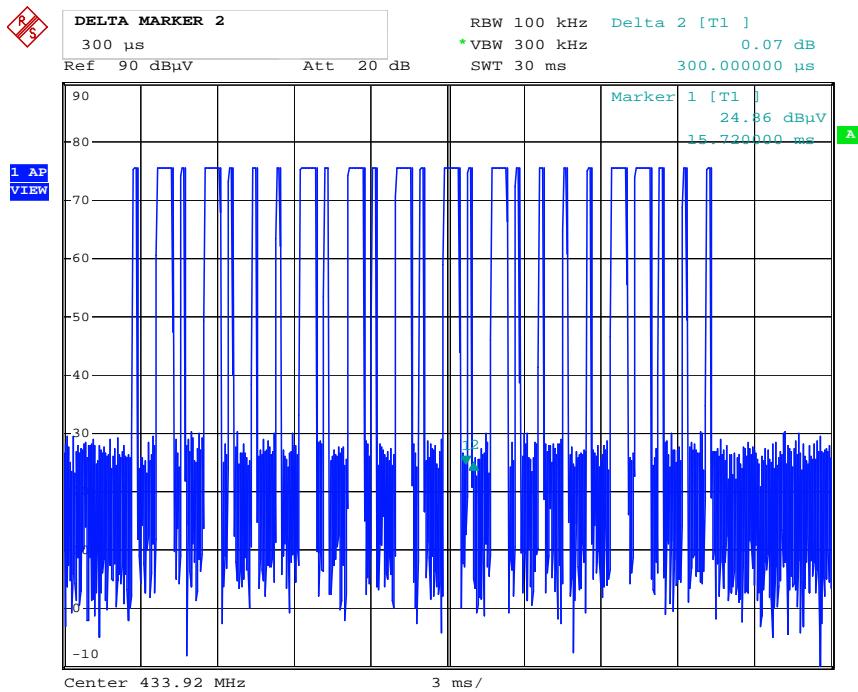




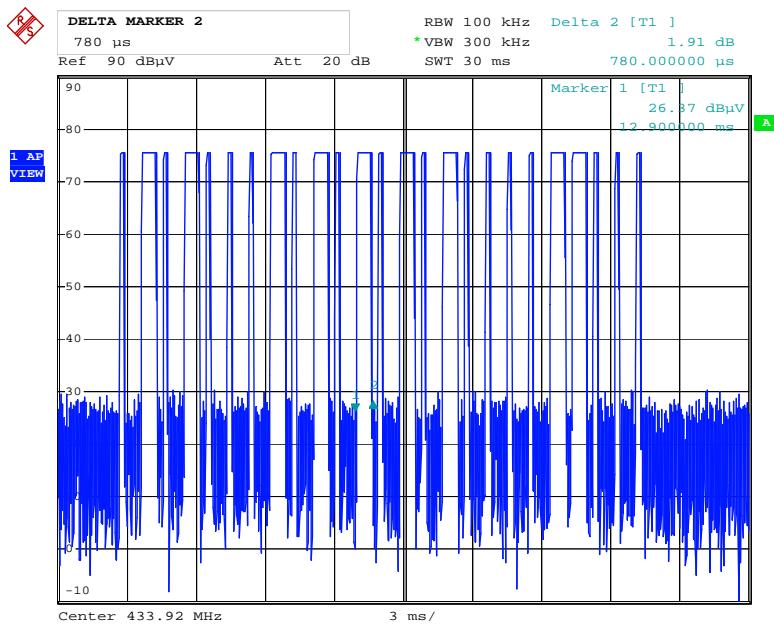
Release Time = 0.85ms

The graph shows the pattern of coding during the signal transmission.
The duration of one cycle = 29.88 ms.





The graph shows the duration of 'on' signal. From marker 1 to marker 1, duration is 0.3ms.



The graph shows the duration of 'on' signal. From marker 1 to marker 1, duration is 0.78ms.