APPLICATION CERTIFICATION On Behalf of Great American Duck Races, Inc.

Wireless Pool Thermometer Model No.: 4301

FCC ID: VNY-4301

Prepared for : Great American Duck Races, Inc.

Address : 16043 N. 82nd Street, Scottsdale, AZ 85260, USA

Prepared by : ACCURATE TECHNOLOGY CO. LTD

Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number : ATE20101921

Date of Test : September 3-4, 2010 Date of Report : September 10, 2010

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APPENDIX I (TEST CURVES) (10 pages)

Test Report Certification

Applicant : Great American Duck Races, Inc.

Manufacturer : Yuyao Shuanghe Electron Instrument Co., Ltd.

EUT Description : Wireless Pool Thermometer

(A) MODEL NO.: 4301(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 3V ("AAA" batteries 2×)

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 limits. 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: | September 3-4, 2010 |
|--------------------------------|---------------------|
| Prepared by : | Joe |
| | (Engineer) |
| Approved & Authorized Signer : | Lemil |
| | (Manager) |

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Wireless Pool Thermometer

Model Number : 4301

Operation Frequency : 433.92MHz

Power Supply : DC 3V ("AAA" batteries 2×)

Applicant : Great American Duck Races, Inc.

Address : 16043 N. 82nd Street, Scottsdale, AZ 85260, USA

Manufacturer : Yuyao Shuanghe Electron Instrument Co., Ltd.

Address : 11 Yuanqu Road, Dayin Industrial Park, Dayin, Yuyao

Zhejiang, 315423, China

Date of sample received: August 31, 2010

Date of Test : September 3-4, 2010

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 | Test Receiver Rohde&Schwarz | | 100307 | Jan. 9, 2011 |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 9, 2011 |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 9, 2011 |
| Pre-Amplifier | Rohde&Schwarz | CBLU118354 0-01 | 3791 | Jan. 9, 2011 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 9, 2011 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 9, 2011 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 9, 2011 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | Jan. 9, 2011 |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 9, 2011 |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 9, 2011 |

3. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|-------------------|---|-----------|
| Section 15.207 | Conducted Emission | N/A |
| Section 15.231(e) | Radiated Emission | Compliant |
| Section 15.231(c) | 20dB Bandwidth | Compliant |
| Section 15.231(e) | Duration time and silent period measurement | Compliant |

Remark: "N/A" means "Not applicable".

4. THE FIELD STRENGTH OF RADIATION EMISSION

4.1.Block Diagram of Test Setup

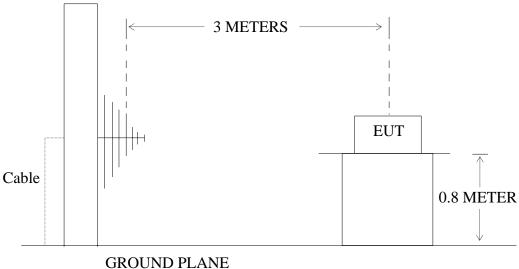
4.1.1.Block diagram of connection between the EUT and simulators



(EUT: Wireless Pool Thermometer)

4.1.2.Semi-anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Pool Thermometer)

4.2. The Field Strength of Radiation Emission Measurement Limits

4.2.1.Radiation Emission Measurement Limits According to Section 15.231(e)

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission [Average] [µV/m] | Field Strength of Spurious Emission [Average] [µV/m] |
|--------------------------------------|---|--|
| 40.66-40.70 | 1000 | 100 |
| 70-130 | 500 | 50 |
| 130-174 | 500 - 1500 | 50-150 |
| 174-260 | 1500 | 150 |
| 260-470 | 1500-5000 | 150-500 |
| Above 470 | 5000 | 500 |

Where F is the frequency in MHz, The formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174MHz, μ V/m at 3 meters=22.72727(F)-2454.545; For the band 260-470MHz, μ V/m at 3 meters=16.6667(F)-2833.3333. The maximum permissible unwanted emission level is 20dB 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 are 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 Pool Thermometer (EUT)

Model Number : 4301 Serial Number : N/A

Manufacturer : Yuyao Shuanghe Electron Instrument 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 measuring mode (TX) 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 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 63.4 on radiated emission measurement.

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

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

4.6. The Field Strength of Radiation Emission Measurement Results **PASS.**

The frequency range 30MHz to 5000MHz is investigated.

| Date of Test: | September 3, 2010 | Temperature: | 25°C |
|---------------|---------------------------|----------------|-------|
| EUT: | Wireless Pool Thermometer | Humidity: | 50% |
| Model No.: | 4301 | Power Supply: | DC 3V |
| Test Mode: | TX | Test Engineer: | Joe |

| Frequency | Reading | Factor | Average | Result(c | dBμV/m) | Limit(| $Limit(dB\mu V/m)$ | | n(dB) | Polarization |
|-----------|----------|--------|---------|----------|---------|--------|--------------------|--------|--------|--------------|
| (MHz) | (dBµV/m) | Corr. | Factor | | | | 1 | | | |
| | PEAK | (dB) | (dB) | AV | PEAK | AV | PEAK | AV | PEAK | |
| 433.9645 | 60.85 | 22.95 | -14.66 | 69.14 | 83.80 | 72.8 | 92.8 | -3.66 | -9.00 | |
| 867.9320 | 33.06 | 28.64 | -14.66 | 47.04 | 61.70 | 52.8 | 72.8 | -5.76 | -11.10 | |
| *1301.895 | 67.87 | -12.20 | -14.66 | 41.01 | 55.67 | 54.0 | 74.0 | -12.99 | -18.33 | |
| 1735.858 | 64.23 | -10.40 | -14.66 | 39.17 | 53.83 | 52.8 | 72.8 | -13.63 | -18.97 | Horizontal |
| 2169.825 | 62.53 | -8.38 | -14.66 | 39.49 | 54.15 | 52.8 | 72.8 | -13.31 | -18.65 | |
| 2603.790 | 56.66 | -6.72 | -14.66 | 35.28 | 49.94 | 52.8 | 72.8 | -17.52 | -22.86 | |
| 3037.754 | 57.85 | -4.90 | -14.66 | 38.29 | 52.95 | 52.8 | 72.8 | -14.51 | -19.85 | |
| 433.9645 | 58.78 | 22.95 | -14.66 | 67.07 | 81.73 | 72.8 | 92.8 | -5.73 | -10.07 | |
| 867.9320 | 30.78 | 28.64 | -14.66 | 44.76 | 59.42 | 52.8 | 72.8 | -8.04 | -13.38 | |
| *1301.895 | 69.38 | -12.20 | -14.66 | 42.52 | 57.18 | 54.0 | 74.0 | -11.48 | -16.82 | |
| 1735.858 | 65.67 | -10.40 | -14.66 | 40.61 | 55.27 | 52.8 | 72.8 | -12.19 | -17.53 | Vertical |
| 2169.825 | 61.46 | -8.38 | -14.66 | 38.42 | 53.08 | 52.8 | 72.8 | -14.38 | -19.72 | |
| 2603.790 | 57.50 | -6.72 | -14.66 | 36.12 | 50.78 | 52.8 | 72.8 | -16.68 | -22.02 | |
| 3037.754 | 57.61 | -4.90 | -14.66 | 38.05 | 52.71 | 52.8 | 72.8 | -14.75 | -20.09 | |

Note:

- 1. The lab use average detector to perform average measurement. The report shows average factor and average results were calculated by using average factor calculation method.
- 2. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 3. *: Denotes restricted band of operation.

Measurements were made using a peak detector. Average results were calculated by using average factor calculation method. 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.

4. 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

- 5. FCC Limit for Average Measurement = $16.6667(433.92)-2833.3333 = 4398.68 \mu V/m = 72.8 dB \mu V/m$
- 6. The spectral diagrams in appendix I display the measurement of peak values.

5. 20DB OCCUPIED BANDWIDTH

5.1.Block Diagram of Test Setup

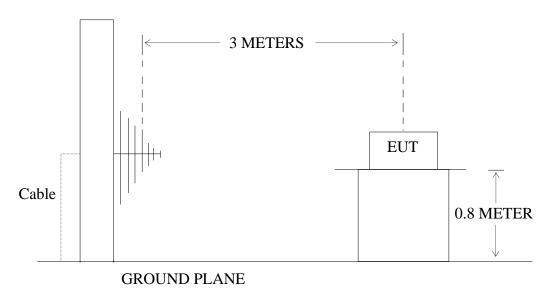
5.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Pool Thermometer)

5.1.2.Semi-anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Pool Thermometer)

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 Pool Thermometer (EUT)

Model Number : 4301 Serial Number : N/A

Manufacturer : Yuyao Shuanghe Electron Instrument 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 measuring mode (TX) measure it.

5.5.Test Procedure

- 5.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 10kHz, VBW = 30kHz, Span = 500kHz.
- 5.5.2.Set SPA Max hold. Mark peak, -20dB

5.6. Measurement Result

The EUT does meet the FCC requirement.

-20dB bandwidth = 53.0 kHz < 1084.8 kHz.

The spectral diagrams in appendix I.

6. DURATION TIME AND SILENT PERIOD MEASUREMENT

6.1.Block Diagram of Test Setup

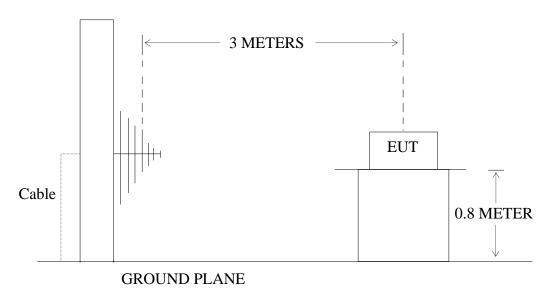
6.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Pool Thermometer)

6.1.2.Semi-anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Pool Thermometer)

6.2. Duration Time and silent period measurement according to FCC Part 15

Section 15.231(e)

Section 15.231(e) In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

6.3.EUT Configuration on Measurement

The following equipment are installed on duration time and silent period 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 Pool Thermometer (EUT)

Model Number : 4301 Serial Number : N/A

Manufacturer : Yuyao Shuanghe Electron Instrument 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 measuring mode (TX) measure it.

6.5.Test Procedure

6.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 10kHz,

VBW = 30kHz, Span = 0Hz.

- 6.5.2.Set EUT as normal operation.
- 6.5.3.Set SPA View. Delta Mark time.

6.6. Measurement Result

The EUT does meet the FCC requirement.

Duration time = 0.822 s < 1 s

Silent period = 34.5 seconds > 30 times the duration of the transmission > 10 seconds

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

7.1.Block Diagram of Test Setup

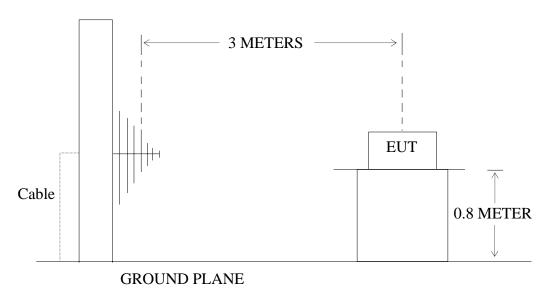
7.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Pool Thermometer)

7.1.2.Semi-anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Pool Thermometer)

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 $dB = 20 \log (duty cycle)$

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 Pool Thermometer (EUT)

Model Number : 4301 Serial Number : N/A

Manufacturer : Yuyao Shuanghe Electron Instrument 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 measuring mode (TX) 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 = 10kHz,

VBW = 30kHz, Span = 0Hz.

- 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 = 167.6ms Effective period of the cycle = 42×0.74 ms= 31.08ms

DC = 31.08 ms/167.6 ms = 0.185

Therefore, the average factor is found by $20\log 0.185 = -14.66dB$

The spectral diagrams in appendix I.

APPENDIX I (Test Curves)



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

Horizontal

Job No.: joe #686

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Wireless Pool Thermometer

Mode: TX

Model: 4301

Manufacturer: Shuanghe

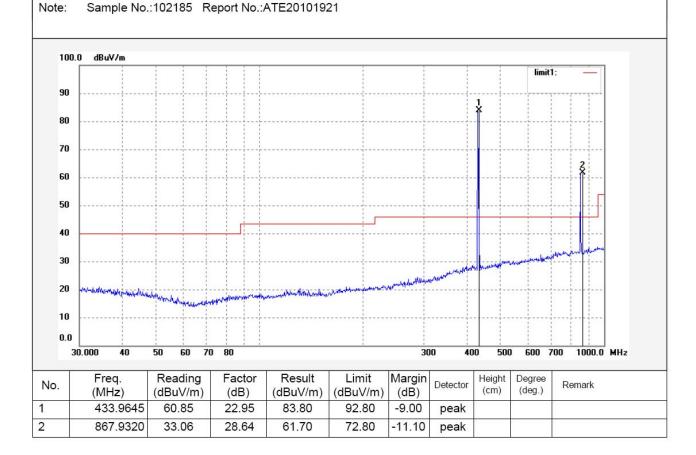
Engineer Signature: Joe Distance: 3m

Date: 2010/09/03

Time: 17:22:05

Power Source: DC 3V

Polarization:





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.: joe #687

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Wireless Pool Thermometer

Mode: TX

4301 Model:

Note:

Manufacturer: Shuanghe

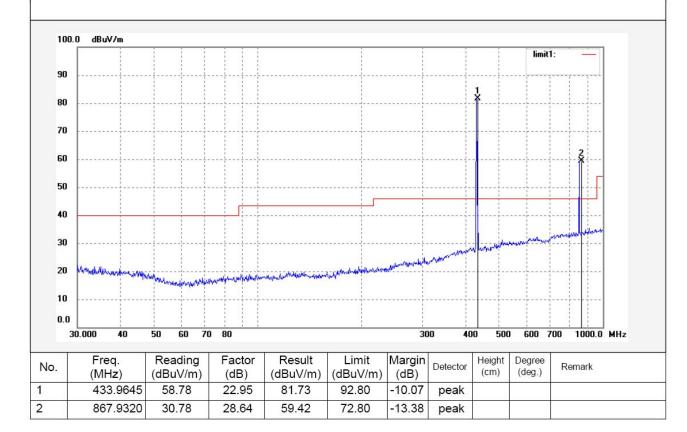
Sample No.:102185 Report No.:ATE20101921



Vertical

Distance: 3m

Polarization:





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.: joe #685

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Wireless Pool Thermometer

Mode: TX

Model: 4301

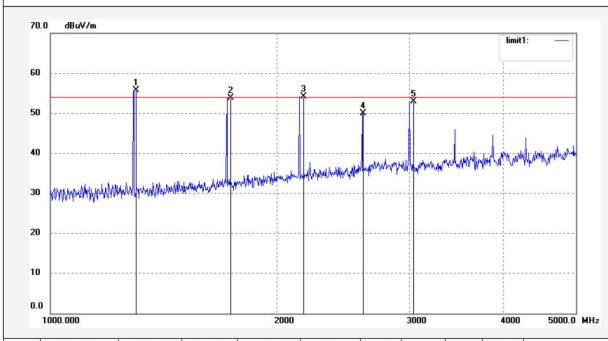
Manufacturer: Shuanghe

Note: Sample No.:102185 Report No.:ATE20101921

Polarization: Horizontal Power Source: DC 3V Date: 2010/09/03 Time: 17:00:46

Engineer Signature: Joe

Distance: 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 1301.895 | 67.87 | -12.20 | 55.67 | 74.00 | -18.33 | peak | | ĺ | |
| 2 | 1735.858 | 64.23 | -10.40 | 53.83 | 72.80 | -18.97 | peak | | ľ | |
| 3 | 2169.825 | 62.53 | -8.38 | 54.15 | 72.80 | -18.65 | peak | | | |
| 4 | 2603.790 | 56.66 | -6.72 | 49.94 | 72.80 | -22.86 | peak | | i i | |
| 5 | 3037.754 | 57.85 | -4.90 | 52.95 | 72.80 | -19.85 | peak | | | |



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.: joe #684

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Wireless Pool Thermometer

Mode: TX

Model: 4301

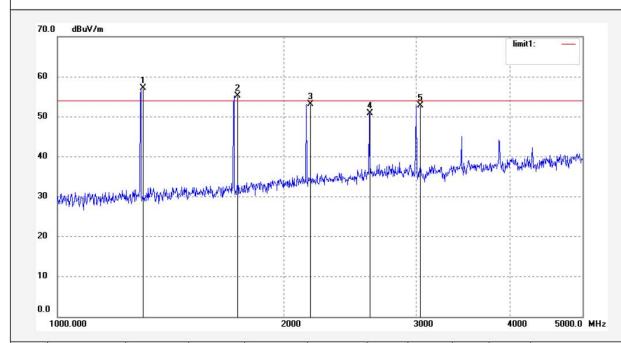
Manufacturer: Shuanghe

Polarization: Vertical Power Source: DC 3V Date: 2010/09/03 Time: 16:56:14

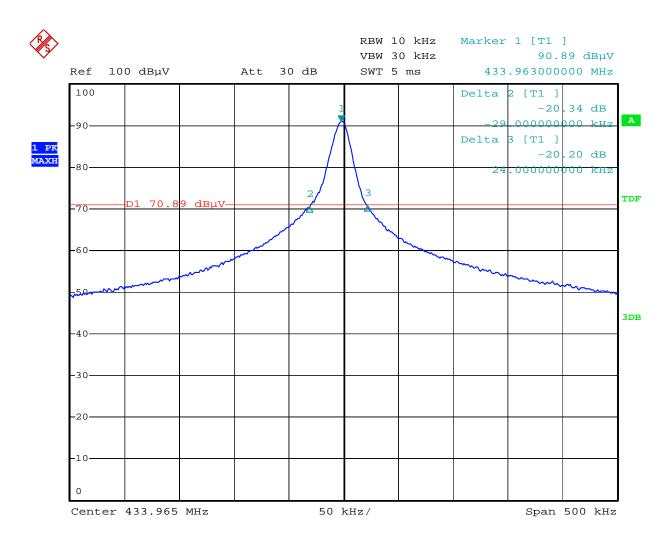
Engineer Signature: Joe

Distance: 3m

Note: Sample No.:102185 Report No.:ATE20101921

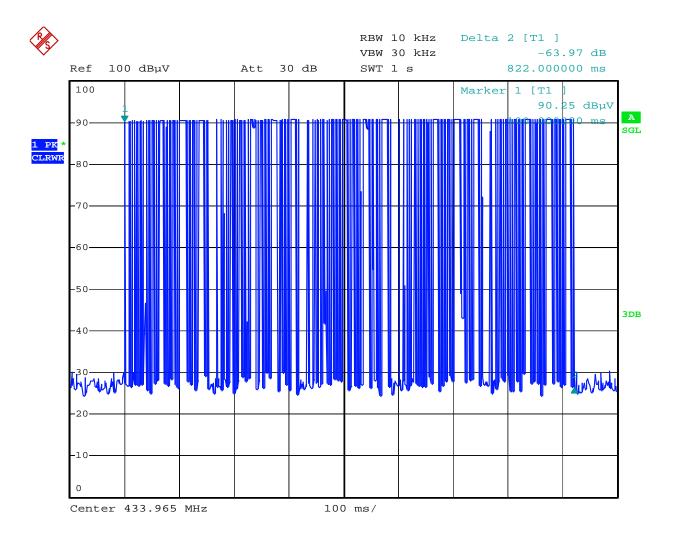


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 1301.895 | 69.38 | -12.20 | 57.18 | 74.00 | -16.82 | peak | | | |
| 2 | 1735.858 | 65.67 | -10.40 | 55.27 | 72.80 | -17.53 | peak | | | |
| 3 | 2169.825 | 61.46 | -8.38 | 53.08 | 72.80 | -19.72 | peak | | | |
| 4 | 2603.790 | 57.50 | -6.72 | 50.78 | 72.80 | -22.02 | peak | | | |
| 5 | 3037.754 | 57.61 | -4.90 | 52.71 | 72.80 | -20.09 | peak | | | |



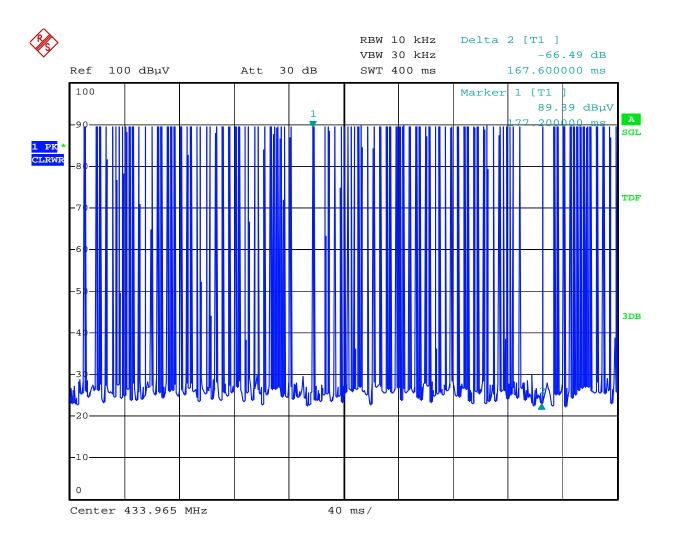
Date: 4.SEP.2010 08:57:23

-20dB bandwidth is 53.0 kHz.



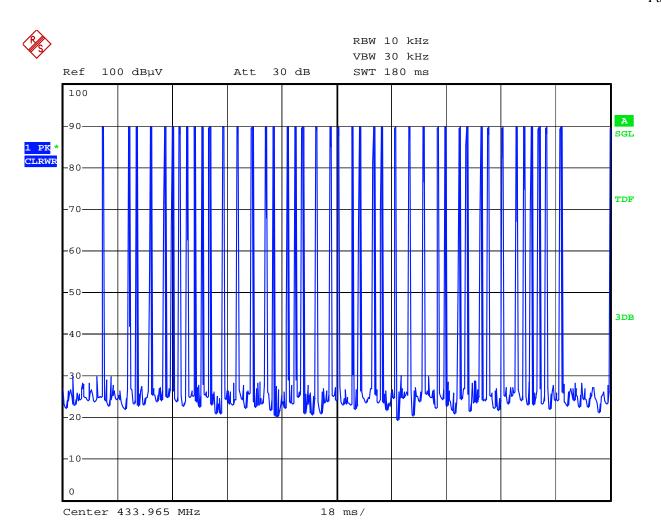
Date: 4.SEP.2010 10:17:43

The graph shows the duration time is 822 ms.



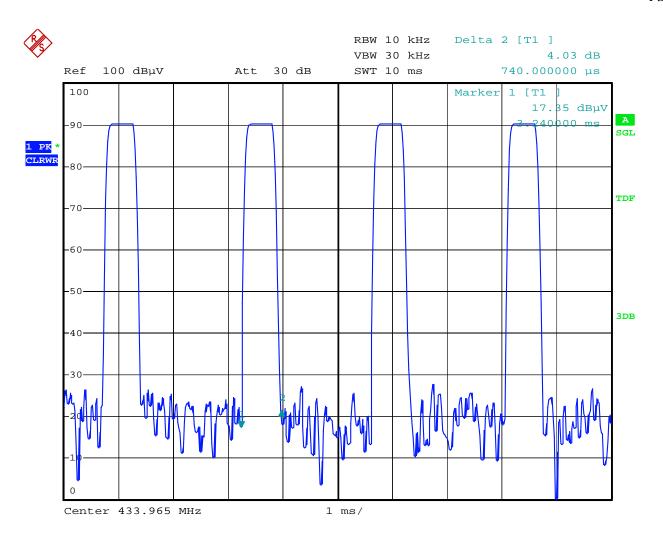
Date: 4.SEP.2010 09:05:47

The duration of one cycle is 167.6ms.



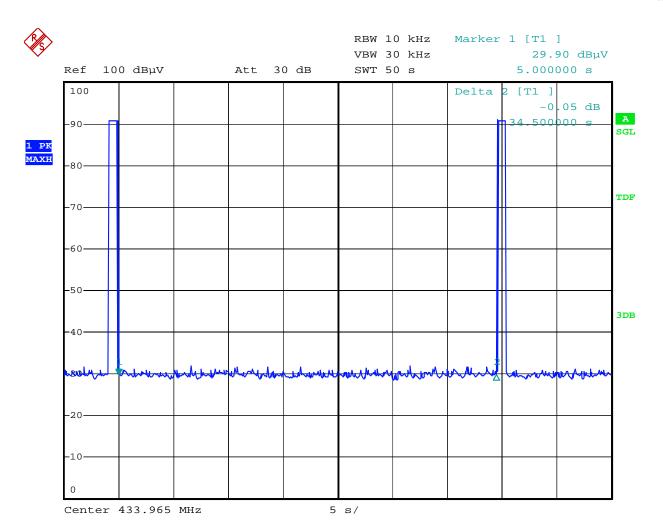
Date: 4.SEP.2010 09:08:50

The graph shows 42 'on' signals.



Date: 4.SEP.2010 09:11:38

The graph shows the duration of 'on' signal. From marker 1 to marker 2, duration is 0.74ms.



Date: 4.SEP.2010 09:33:08

The graphs show the silent period of 'off' signal, silent period is 34.5 s.