

APPLICATION FOR VERIFICATION  
On Behalf of  
A&H Design Group, Ltd.

Wireless remote control vibrator  
Model No.: TRC-013 BLK, TRC-013 NAV

FCC ID: 2AG2K-TRC-013RX

Prepared for : A&H Design Group, Ltd.  
Address : Suite 608, Tower One, Harbour Centre1 Hok Cheung  
Street, Hung Hom ,Kowloon, Hong Kong  
Prepared by : Accurate Technology Co., Ltd.  
Address : F1, Bldg. A&D, Changyuan New Material Port, Keyuan  
Rd., Science & Industry Park, Nanshan District, Shenzhen  
518057, P.R. China

Tel: +86-755-26503290  
Fax: +86-755-26503396

Report No. : ATE20161912  
Date of Test : Aug 25--Aug 30, 2016  
Date of Report : Aug 31, 2016

## TABLE OF CONTENTS

| Description                                                 | Page      |
|-------------------------------------------------------------|-----------|
| Test Report Declaration                                     |           |
| <b>1. TEST RESULTS SUMMARY .....</b>                        | <b>4</b>  |
| <b>2. GENERAL INFORMATION .....</b>                         | <b>5</b>  |
| 2.1. Product of Device (EUT) .....                          | 5         |
| 2.2. Special Accessory and Auxiliary Equipment.....         | 5         |
| 2.3. Description of Test Facility .....                     | 6         |
| 2.4. Measurement Uncertainty.....                           | 6         |
| <b>3. MEASURING DEVICE AND TEST EQUIPMENT .....</b>         | <b>7</b>  |
| <b>4. POWER LINE CONDUCTED MEASUREMENT.....</b>             | <b>8</b>  |
| 4.1. Block Diagram of Test Setup .....                      | 8         |
| 4.2. The Emission Limit.....                                | 8         |
| 4.3. Configuration of EUT on Measurement .....              | 9         |
| 4.4. Operating Condition of EUT .....                       | 9         |
| 4.5. Test Procedure .....                                   | 9         |
| 4.6. Power Line Conducted Emission Measurement Results..... | 10        |
| <b>5. RADIATED EMISSION MEASUREMENT .....</b>               | <b>13</b> |
| 5.1. Block Diagram of Test Setup .....                      | 13        |
| 5.2. The Emission Limit For Section 15.109 (a).....         | 14        |
| 5.3. EUT Configuration on Measurement .....                 | 14        |
| 5.4. Operating Condition of EUT .....                       | 14        |
| 5.5. Test Procedure .....                                   | 14        |
| 5.6. Radiated Emission Noise Measurement Result.....        | 15        |

## Test Report Declaration

Applicant : A&H Design Group, Ltd.  
Manufacturer : TOPARC Technology(Shenzhen)Co.,Ltd.  
Product : Wireless remote control vibrator  
Model No. : TRC-013 BLK, TRC-013 NAV  
(Note: they are identical in interior structure, electrical circuits and components, and Product model is different because of different Color of product appearance. So we prepare the TRC-013 NAV for test.)  
Trade name : N/A

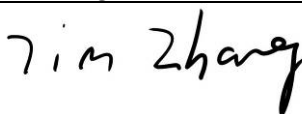
Measurement Procedure Used:

### **FCC Rules and Regulations Part 15 Subpart B:2015 ANSI C63.4: 2014**

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 B Class B limits both radiated and conducted emissions. 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 : Aug 25--Aug 30, 2016  
Date of Report : Aug 31, 2016

Prepared by :   
(Tim.zhang, Engineer)

Approved & Authorized Signer :   
(Sean Liu, Manager)

## 1. TEST RESULTS SUMMARY

| Test Items                    | Test Standard         | Test Results |
|-------------------------------|-----------------------|--------------|
| Power Line Conducted Emission | FCC Part 15 Subpart B | Pass         |
| Radiated Emission             | FCC Part 15 Subpart B | Pass         |

## 2. GENERAL INFORMATION

### 2.1. Product of Device (EUT)

|                            |                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| EUT                        | : Wireless remote control vibrator                                                                                                  |
| Model Number               | : TRC-013 BLK, TRC-013 NAV                                                                                                          |
| Power Supply               | : DC 5V(powered by Charge port)<br>or DC 3.7V(powered by battery)                                                                   |
| Modulation:                | : ASK                                                                                                                               |
| RX Frequency               | : 433.92MHz                                                                                                                         |
| Applicant                  | : A&H Design Group, Ltd.                                                                                                            |
| Address                    | : Suite 608, Tower One, Harbour Centre1 Hok Cheung Street,<br>Hung Hom ,Kowloon, Hong Kong                                          |
| Manufacturer               | : TOPARC Technology(Shenzhen)Co., Ltd.                                                                                              |
| Address                    | : 1/2F, 12 Building, Lianchuang Park, Bulan Road, Buji Town,<br>Longgang District, Shenzhen City, Guangdong Province, P.R.<br>China |
| Date of sample<br>received | : Aug 25, 2016                                                                                                                      |
| Date of Test               | : Aug 25--Aug 30, 2016                                                                                                              |

### 2.2. Special Accessory and Auxiliary Equipment

AC/DC Power Adapter: Model:NF5V-1.5C-1U  
(provided by laboratory) INPUT: 120V/60Hz 0.5A  
OUTPUT:5V/1.5A

### 2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC

The Registration Number is 253065

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-1

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&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China

### 2.4. Measurement Uncertainty

Conducted emission expanded uncertainty : U=2.23dB, k=2

Power disturbance expanded uncertainty : U=2.92dB, k=2

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

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

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

### 3. MEASURING DEVICE AND TEST EQUIPMENT

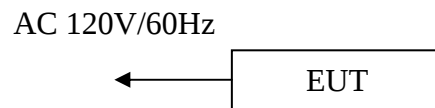
**Table 1: List of Test and Measurement Equipment**

| Kind of equipment  | Manufacturer              | Type                                    | S/N        | Calibrated dates | Cal. Interval |
|--------------------|---------------------------|-----------------------------------------|------------|------------------|---------------|
| EMI Test Receiver  | Rohde&Schwarz             | ESCS30                                  | 100307     | Jan. 09, 2016    | One Year      |
| EMI Test Receiver  | Rohde&Schwarz             | ESPI3                                   | 101526/003 | Jan. 09, 2016    | One Year      |
| Spectrum Analyzer  | Agilent                   | E7405A                                  | MY45115511 | Jan. 09, 2016    | One Year      |
| Pre-Amplifier      | Rohde&Schwarz             | CBLU118354<br>0-01                      | 3791       | Jan. 09, 2016    | One Year      |
| Loop Antenna       | Schwarzbeck               | FMZB1516                                | 1516131    | Jan. 14, 2016    | One Year      |
| Bilog Antenna      | Schwarzbeck               | VULB9163                                | 9163-323   | Jan. 14, 2016    | One Year      |
| Horn Antenna       | Schwarzbeck               | BBHA9120D                               | 9120D-655  | Jan. 14, 2016    | One Year      |
| Horn Antenna       | Schwarzbeck               | BBHA9120D                               | 9120D-1067 | Jan. 14, 2016    | One Year      |
| LISN               | Rohde&Schwarz             | ESH3-Z5                                 | 100305     | Jan. 09, 2016    | One Year      |
| LISN               | Schwarzbeck               | NSLK8126                                | 8126431    | Jan. 09, 2016    | One Year      |
| Highpass Filter    | Wainwright<br>Instruments | WHKX3.6/18<br>G-10SS                    | N/A        | Jan. 09, 2016    | One Year      |
| Band Reject Filter | Wainwright<br>Instruments | WRCG2400/2<br>485-2375/2510<br>-60/11SS | N/A        | Jan. 09, 2016    | One Year      |

## 4. POWER LINE CONDUCTED MEASUREMENT

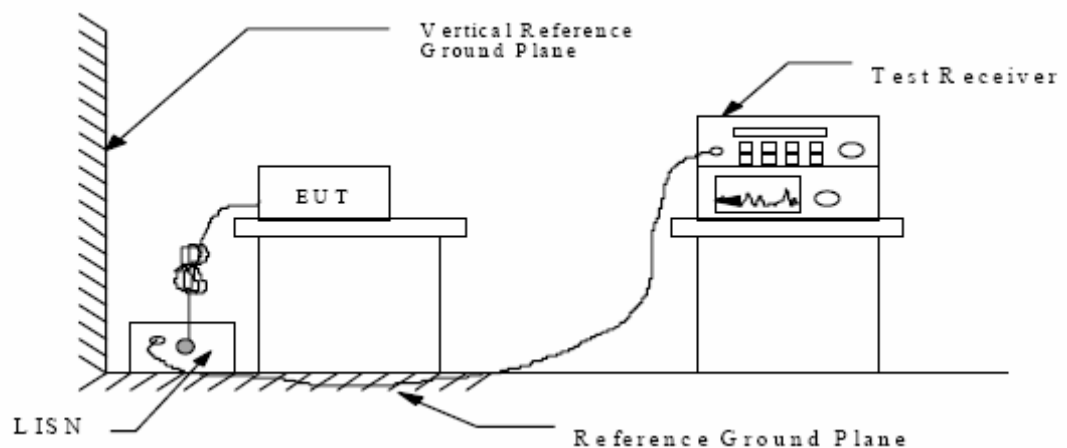
### 4.1. Block Diagram of Test Setup

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



(EUT: Wireless remote control vibrator)

#### 4.1.2. Shielding Room Test Setup Diagram



(EUT: Wireless remote control vibrator)

### 4.2. The Emission Limit

#### 4.2.1. Conducted Emission Measurement Limits According to Section 15.107(a)

| Frequency<br>(MHz) | Limit dB(μV)     |               |
|--------------------|------------------|---------------|
|                    | Quasi-peak Level | Average Level |
| 0.15 - 0.50        | 66.0 – 56.0 *    | 56.0 – 46.0 * |
| 0.50 - 5.00        | 56.0             | 46.0          |
| 5.00 - 30.00       | 60.0             | 50.0          |

\* Decreases with the logarithm of the frequency.

### 4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

#### 4.3.1. Wireless remote control vibrator (EUT)

Model Number: TRC-013 NAV

Serial Number: N/A

Manufacturer: TOPARC Technology(Shenzhen)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 test mode and measure it.

### 4.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver(R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

## 4.6. Power Line Conducted Emission Measurement Results

**PASS.**

| Test Mode: Charging(120V/60Hz)            |               |              |               |              |          |      |     |  |
|-------------------------------------------|---------------|--------------|---------------|--------------|----------|------|-----|--|
| <b>MEASUREMENT RESULT: "TPAC004_fin"</b>  |               |              |               |              |          |      |     |  |
| 8/26/2016 9:17AM                          |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.160000                                  | 35.60         | 10.5         | 66            | 29.9         | QP       | L1   | GND |  |
| 0.420000                                  | 34.20         | 10.7         | 57            | 23.2         | QP       | L1   | GND |  |
| 0.505000                                  | 38.70         | 10.7         | 56            | 17.3         | QP       | L1   | GND |  |
| 1.000000                                  | 30.50         | 10.8         | 56            | 25.5         | QP       | L1   | GND |  |
| 1.465000                                  | 28.00         | 10.9         | 56            | 28.0         | QP       | L1   | GND |  |
| 18.325000                                 | 24.80         | 11.4         | 60            | 35.2         | QP       | L1   | GND |  |
| <b>MEASUREMENT RESULT: "TPAC004_fin2"</b> |               |              |               |              |          |      |     |  |
| 8/26/2016 9:17AM                          |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.160000                                  | 18.40         | 10.5         | 56            | 37.1         | AV       | L1   | GND |  |
| 0.420000                                  | 27.70         | 10.7         | 47            | 19.7         | AV       | L1   | GND |  |
| 0.505000                                  | 32.50         | 10.7         | 46            | 13.5         | AV       | L1   | GND |  |
| 0.970000                                  | 19.70         | 10.8         | 46            | 26.3         | AV       | L1   | GND |  |
| 1.470000                                  | 21.00         | 10.9         | 46            | 25.0         | AV       | L1   | GND |  |
| 17.890000                                 | 16.90         | 11.4         | 50            | 33.1         | AV       | L1   | GND |  |
| <b>MEASUREMENT RESULT: "TPAC003_fin"</b>  |               |              |               |              |          |      |     |  |
| 8/26/2016 9:13AM                          |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.155000                                  | 31.10         | 10.5         | 66            | 34.6         | QP       | N    | GND |  |
| 0.290000                                  | 35.40         | 10.6         | 61            | 25.1         | QP       | N    | GND |  |
| 0.510000                                  | 34.10         | 10.7         | 56            | 21.9         | QP       | N    | GND |  |
| 0.930000                                  | 32.70         | 10.8         | 56            | 23.3         | QP       | N    | GND |  |
| 6.040000                                  | 25.70         | 11.2         | 60            | 34.3         | QP       | N    | GND |  |
| 19.585000                                 | 27.60         | 11.4         | 60            | 32.4         | QP       | N    | GND |  |
| <b>MEASUREMENT RESULT: "TPAC003_fin2"</b> |               |              |               |              |          |      |     |  |
| 8/26/2016 9:13AM                          |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.155000                                  | 15.40         | 10.5         | 56            | 40.3         | AV       | N    | GND |  |
| 0.290000                                  | 18.50         | 10.6         | 51            | 32.0         | AV       | N    | GND |  |
| 0.550000                                  | 21.60         | 10.7         | 46            | 24.4         | AV       | N    | GND |  |
| 1.185000                                  | 21.50         | 10.9         | 46            | 24.5         | AV       | N    | GND |  |
| 5.550000                                  | 17.00         | 11.2         | 50            | 33.0         | AV       | N    | GND |  |
| 19.585000                                 | 17.10         | 11.4         | 50            | 32.9         | AV       | N    | GND |  |

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

The spectral diagrams are shown in the following pages.

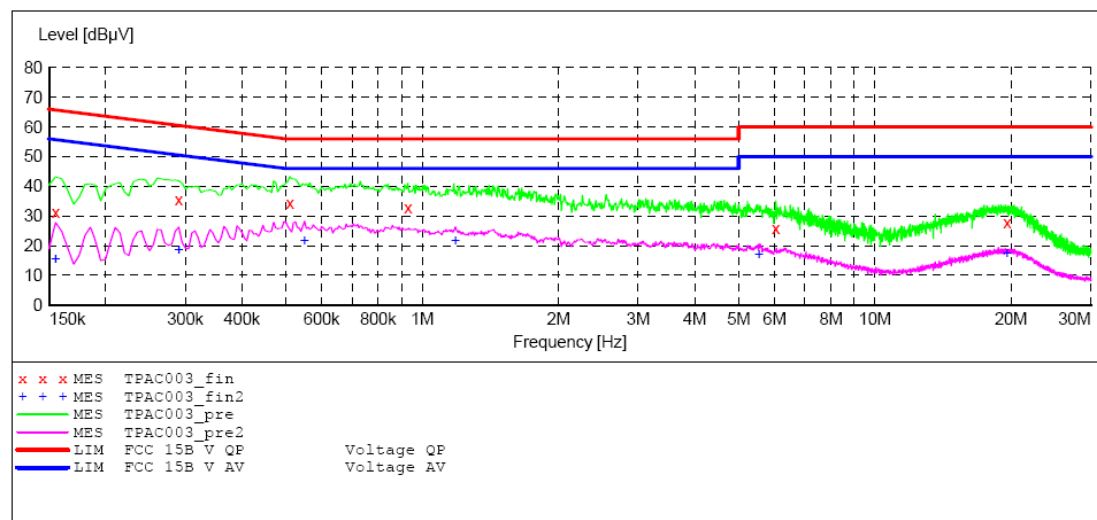
## ACCURATE TECHNOLOGY CO., LTD

### CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Wireless remote control vibrator M/N:TRC-013 NAV  
 Manufacturer: TOPARC  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: Star  
 Test Specification: N 120V/60Hz  
 Comment: Report No.:ATE20161912  
 Start of Test: 8/26/2016 / 9:12:14AM

#### SCAN TABLE: "V 9K-30MHz fin"

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008  
 Average  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



#### MEASUREMENT RESULT: "TPAC003\_fin"

8/26/2016 9:13AM

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.155000         | 31.10         | 10.5         | 66            | 34.6         | QP       | N    | GND |
| 0.290000         | 35.40         | 10.6         | 61            | 25.1         | QP       | N    | GND |
| 0.510000         | 34.10         | 10.7         | 56            | 21.9         | QP       | N    | GND |
| 0.930000         | 32.70         | 10.8         | 56            | 23.3         | QP       | N    | GND |
| 6.040000         | 25.70         | 11.2         | 60            | 34.3         | QP       | N    | GND |
| 19.585000        | 27.60         | 11.4         | 60            | 32.4         | QP       | N    | GND |

#### MEASUREMENT RESULT: "TPAC003\_fin2"

8/26/2016 9:13AM

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.155000         | 15.40         | 10.5         | 56            | 40.3         | AV       | N    | GND |
| 0.290000         | 18.50         | 10.6         | 51            | 32.0         | AV       | N    | GND |
| 0.550000         | 21.60         | 10.7         | 46            | 24.4         | AV       | N    | GND |
| 1.185000         | 21.50         | 10.9         | 46            | 24.5         | AV       | N    | GND |
| 5.550000         | 17.00         | 11.2         | 50            | 33.0         | AV       | N    | GND |
| 19.585000        | 17.10         | 11.4         | 50            | 32.9         | AV       | N    | GND |

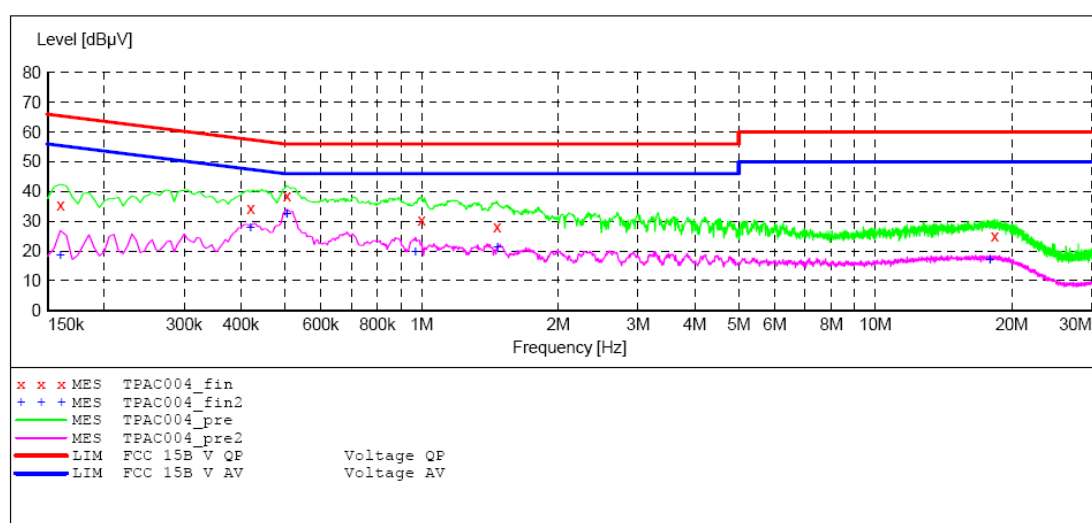
## ACCURATE TECHNOLOGY CO., LTD

### CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Wireless remote control vibrator M/N:TRC-013 NAV  
 Manufacturer: TOPARC  
 Operating Condition: Chargi  
 Test Site: 1#Shie Room  
 Operator: Star  
 Test Specification: L 120V/60Hz  
 Comment: Report No.:ATE20161912  
 Start of Test: 8/26/2016 / 9:14:06AM

#### SCAN TABLE: "V 9K-30MHz fin"

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008  
 Average  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



#### MEASUREMENT RESULT: "TPAC004\_fin"

8/26/2016 9:17AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.160000         | 35.60         | 10.5         | 66            | 29.9         | QP       | L1   | GND |
| 0.420000         | 34.20         | 10.7         | 57            | 23.2         | QP       | L1   | GND |
| 0.505000         | 38.70         | 10.7         | 56            | 17.3         | QP       | L1   | GND |
| 1.000000         | 30.50         | 10.8         | 56            | 25.5         | QP       | L1   | GND |
| 1.465000         | 28.00         | 10.9         | 56            | 28.0         | QP       | L1   | GND |
| 18.325000        | 24.80         | 11.4         | 60            | 35.2         | QP       | L1   | GND |

#### MEASUREMENT RESULT: "TPAC004\_fin2"

8/26/2016 9:17AM

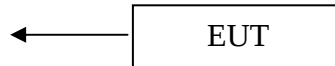
| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.160000         | 18.40         | 10.5         | 56            | 37.1         | AV       | L1   | GND |
| 0.420000         | 27.70         | 10.7         | 47            | 19.7         | AV       | L1   | GND |
| 0.505000         | 32.50         | 10.7         | 46            | 13.5         | AV       | L1   | GND |
| 0.970000         | 19.70         | 10.8         | 46            | 26.3         | AV       | L1   | GND |
| 1.470000         | 21.00         | 10.9         | 46            | 25.0         | AV       | L1   | GND |
| 17.890000        | 16.90         | 11.4         | 50            | 33.1         | AV       | L1   | GND |

## 5. RADIATED EMISSION MEASUREMENT

### 5.1. Block Diagram of Test Setup

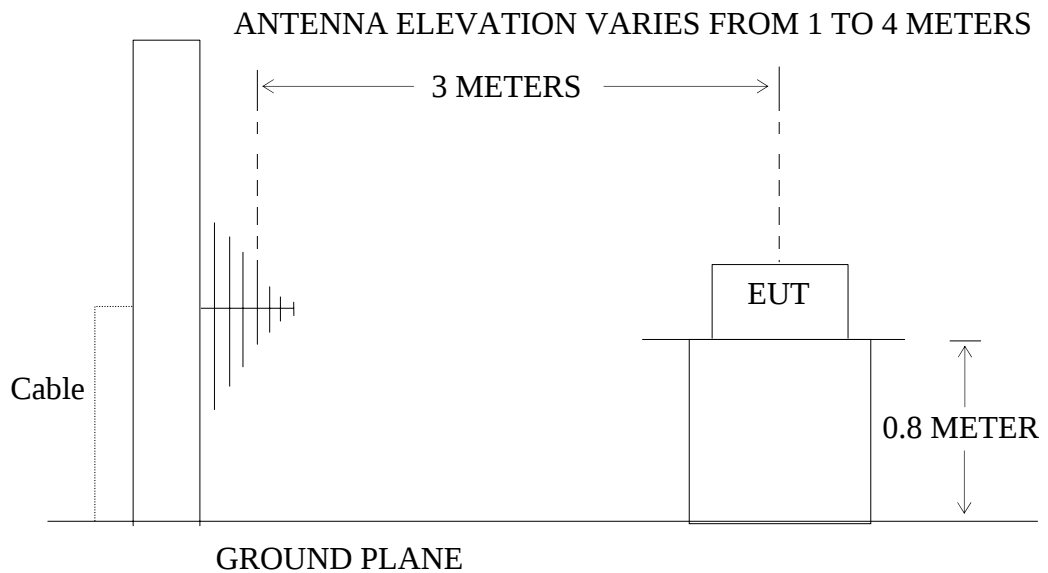
#### 5.1.1. Block diagram of connection between the EUT and simulators

AC 120V/60Hz or DC 3.7V(battery)



(EUT: Wireless remote control vibrator)

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



(EUT: Wireless remote control vibrator)

## 5.2.The Emission Limit For Section 15.109 (a)

### 5.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

| Frequency<br>MHz                                                                                                                                                                                                                                                                                                                | Distance<br>Meters | Field Strengths Limit |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                 |                    | $\mu\text{V/m}$       | $\text{dB}(\mu\text{V/m})$ |
| 30-88                                                                                                                                                                                                                                                                                                                           | 3                  | 100                   | 40.0                       |
| 88-216                                                                                                                                                                                                                                                                                                                          | 3                  | 150                   | 43.5                       |
| 216-960                                                                                                                                                                                                                                                                                                                         | 3                  | 200                   | 46.0                       |
| 960-1000                                                                                                                                                                                                                                                                                                                        | 3                  | 500                   | 54.0                       |
| Remark: (1) Emission level $\text{dB}(\mu\text{V}) = 20 \log$ Emission level $\mu\text{V/m}$ .<br>(2)The smaller limit shall apply at the cross point between two frequency bands.<br>(3)Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system. |                    |                       |                            |

## 5.3.EUT Configuration 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.

### 5.3.1.Wireless remote control vibrator

Model Number: TRC-013 NAV

Serial Number: N/A

Manufacturer: TOPARC Technology(Shenzhen)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 test mode and measure it.

## 5.5.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 bilog 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 interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the EMI test receiver(R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

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

## 5.6.Radiated Emission Noise Measurement Result

**PASS.**

|                                |  |     |                |                     |                |                    |                   |                |          |
|--------------------------------|--|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|
| Model Number: TRC-013 NAV      |  |     |                |                     |                |                    |                   |                |          |
| Test mode: Charging(120V/60Hz) |  |     |                |                     |                |                    |                   |                |          |
| Horizontal                     |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector |
|                                |  | 1   | 39.3203        | 31.29               | -18.88         | 12.41              | 40.00             | -27.59         | QP       |
|                                |  | 2   | 70.2095        | 34.44               | -22.86         | 11.58              | 40.00             | -28.42         | QP       |
|                                |  | 3   | 81.0885        | 33.67               | -22.78         | 10.89              | 40.00             | -29.11         | QP       |
|                                |  | 4   | 145.2994       | 35.24               | -22.25         | 12.99              | 43.50             | -30.51         | QP       |
|                                |  | 5   | 155.8771       | 36.78               | -21.79         | 14.99              | 43.50             | -28.51         | QP       |
|                                |  | 6   | 243.5431       | 36.11               | -18.22         | 17.89              | 46.00             | -28.11         | QP       |
| Vertical                       |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector |
|                                |  | 1   | 33.8067        | 33.46               | -17.34         | 16.12              | 40.00             | -23.88         | QP       |
|                                |  | 2   | 46.2180        | 34.02               | -19.70         | 14.32              | 40.00             | -25.68         | QP       |
|                                |  | 3   | 70.7047        | 43.55               | -22.89         | 20.66              | 40.00             | -19.34         | QP       |
|                                |  | 4   | 137.3565       | 46.87               | -22.00         | 24.87              | 43.50             | -18.63         | QP       |
|                                |  | 5   | 144.2820       | 45.90               | -22.22         | 23.68              | 43.50             | -19.82         | QP       |
|                                |  | 6   | 159.1983       | 46.74               | -21.42         | 25.32              | 43.50             | -18.18         | QP       |
| Above 1G                       |  |     |                |                     |                |                    |                   |                |          |
| Horizontal                     |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector |
|                                |  | 1   | 2832.374       | 43.72               | -4.23          | 39.49              | 74.00             | -34.51         | peak     |
|                                |  | 2   | 2832.374       | 35.06               | -4.23          | 30.83              | 54.00             | -23.17         | AVG      |
| Vertical                       |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector |
|                                |  | 1   | 4648.646       | 42.24               | -0.04          | 42.20              | 74.00             | -31.80         | peak     |
|                                |  | 2   | 4648.646       | 34.67               | -0.04          | 34.63              | 54.00             | -19.37         | AVG      |

|                                  |  |     |                |                     |                |                    |                   |                |          |
|----------------------------------|--|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|
| Model Number: TRC-013 NAV        |  |     |                |                     |                |                    |                   |                |          |
| Test mode: 433.92MHz RX(DC 3.7V) |  |     |                |                     |                |                    |                   |                |          |
| Horizontal                       |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector |
|                                  |  | 1   | 355.4273       | 35.26               | -8.70          | 26.56              | 46.00             | -19.44         | QP       |
|                                  |  | 2   | 397.6334       | 37.44               | -7.92          | 29.52              | 46.00             | -16.48         | QP       |
|                                  |  | 3   | 414.7223       | 38.46               | -7.41          | 31.05              | 46.00             | -14.95         | QP       |
|                                  |  | 4   | 440.1963       | 33.67               | -6.90          | 26.77              | 46.00             | -19.23         | QP       |
|                                  |  | 5   | 848.0563       | 30.10               | -0.30          | 29.80              | 46.00             | -16.20         | QP       |
|                                  |  | 6   | 875.2470       | 29.46               | 0.11           | 29.57              | 46.00             | -16.43         | QP       |
| Vertical                         |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector |
|                                  |  | 1   | 400.4319       | 34.36               | -7.80          | 26.56              | 46.00             | -19.44         | QP       |
|                                  |  | 2   | 437.1199       | 28.00               | -6.91          | 21.09              | 46.00             | -24.91         | QP       |
|                                  |  | 3   | 457.5073       | 26.40               | -6.66          | 19.74              | 46.00             | -26.26         | QP       |
|                                  |  | 4   | 550.9480       | 30.03               | -4.59          | 25.44              | 46.00             | -20.56         | QP       |
|                                  |  | 5   | 875.2470       | 25.71               | 0.11           | 25.82              | 46.00             | -20.18         | QP       |
|                                  |  | 6   | 912.8620       | 26.44               | 0.40           | 26.84              | 46.00             | -19.16         | QP       |
| Above 1G                         |  |     |                |                     |                |                    |                   |                |          |
| Horizontal                       |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV)   | Factor<br>(dB) | Result<br>(dBuV)   | Limit<br>(dBuV)   | Margin<br>(dB) | Detector |
|                                  |  | 1   | 2316.660       | 59.15               | -7.82          | 51.33              | 74.00             | -22.67         | peak     |
|                                  |  | 2   | 2316.660       | 45.10               | -7.82          | 37.28              | 54.00             | -16.72         | AVG      |
| Vertical                         |  | No. | Freq.<br>(MHz) | Reading<br>(dBuV)   | Factor<br>(dB) | Result<br>(dBuV)   | Limit<br>(dBuV)   | Margin<br>(dB) | Detector |
|                                  |  | 1   | 2179.222       | 60.63               | -8.31          | 52.32              | 74.00             | -21.68         | peak     |
|                                  |  | 2   | 2179.222       | 47.00               | -8.31          | 38.69              | 54.00             | -15.31         | AVG      |

Below 1GHz



## ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2015 #1739

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Wireless remote control vibrator

Mode: RX(433.92MHz)

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Horizontal

Power Source: DC 3.7V

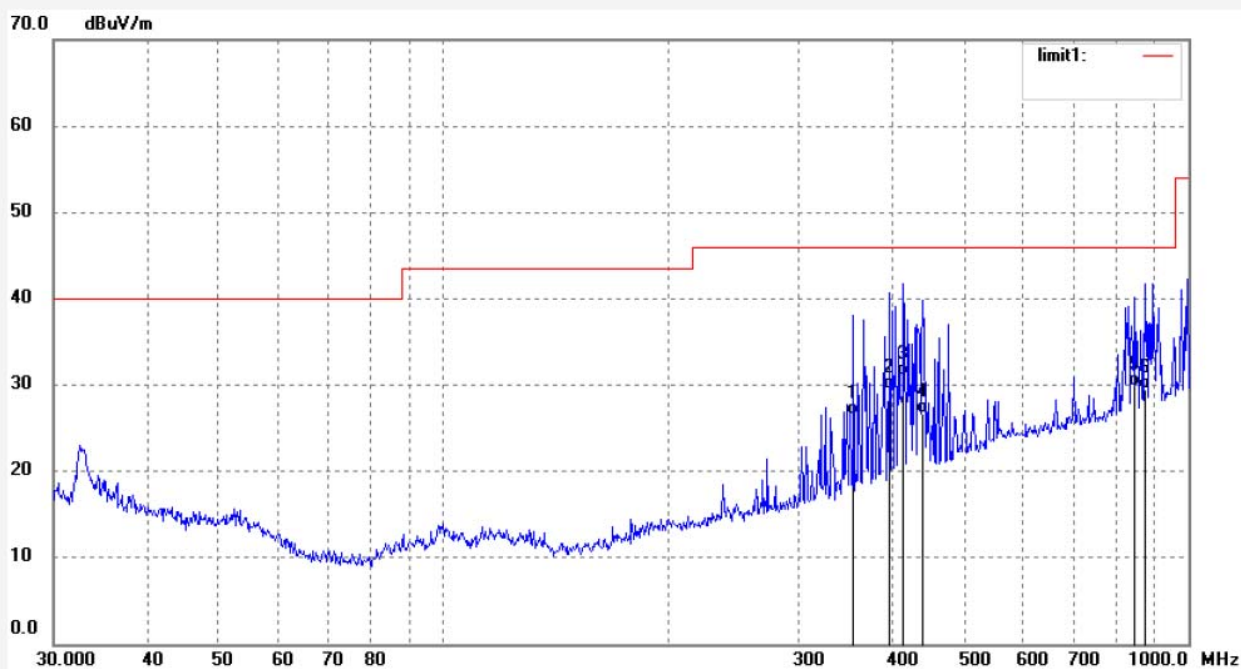
Date: 16/08/27/

Time: 9/58/49

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20161912



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 355.4273    | 35.26            | -8.70       | 26.56           | 46.00          | -19.44      | QP       |             |               |        |
| 2   | 397.6334    | 37.44            | -7.92       | 29.52           | 46.00          | -16.48      | QP       |             |               |        |
| 3   | 414.7223    | 38.46            | -7.41       | 31.05           | 46.00          | -14.95      | QP       |             |               |        |
| 4   | 440.1963    | 33.67            | -6.90       | 26.77           | 46.00          | -19.23      | QP       |             |               |        |
| 5   | 848.0563    | 30.10            | -0.30       | 29.80           | 46.00          | -16.20      | QP       |             |               |        |
| 6   | 875.2470    | 29.46            | 0.11        | 29.57           | 46.00          | -16.43      | QP       |             |               |        |

Job No.: STAR2015 #1740

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Wireless remote control vibrator

Mode: RX(433.92MHz)

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Vertical

Power Source: DC 3.7V

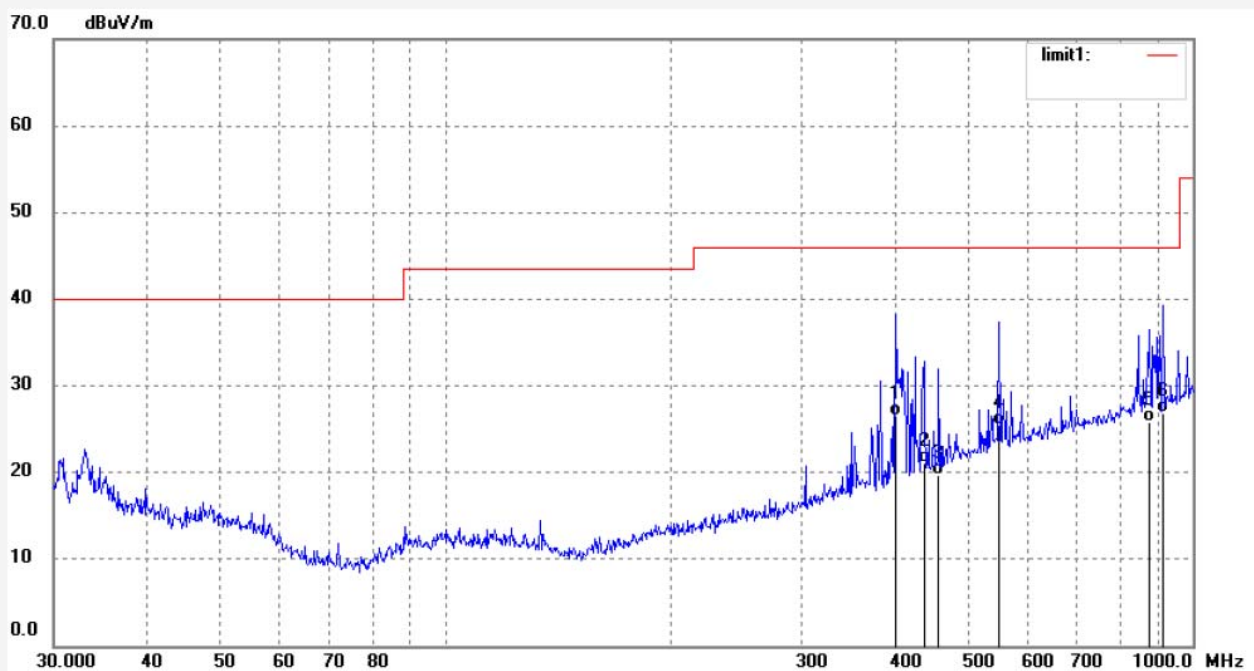
Date: 16/08/27/

Time: 10/00/29

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20161912



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 400.4319    | 34.36            | -7.80       | 26.56           | 46.00          | -19.44      | QP       |             |               |        |
| 2   | 437.1199    | 28.00            | -6.91       | 21.09           | 46.00          | -24.91      | QP       |             |               |        |
| 3   | 457.5073    | 26.40            | -6.66       | 19.74           | 46.00          | -26.26      | QP       |             |               |        |
| 4   | 550.9480    | 30.03            | -4.59       | 25.44           | 46.00          | -20.56      | QP       |             |               |        |
| 5   | 875.2470    | 25.71            | 0.11        | 25.82           | 46.00          | -20.18      | QP       |             |               |        |
| 6   | 912.8620    | 26.44            | 0.40        | 26.84           | 46.00          | -19.16      | QP       |             |               |        |

Job No.: STAR2016 #1863

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Wireless remote control vibrator

Mode: Charging

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Horizontal

Power Source: AC 120V/60Hz

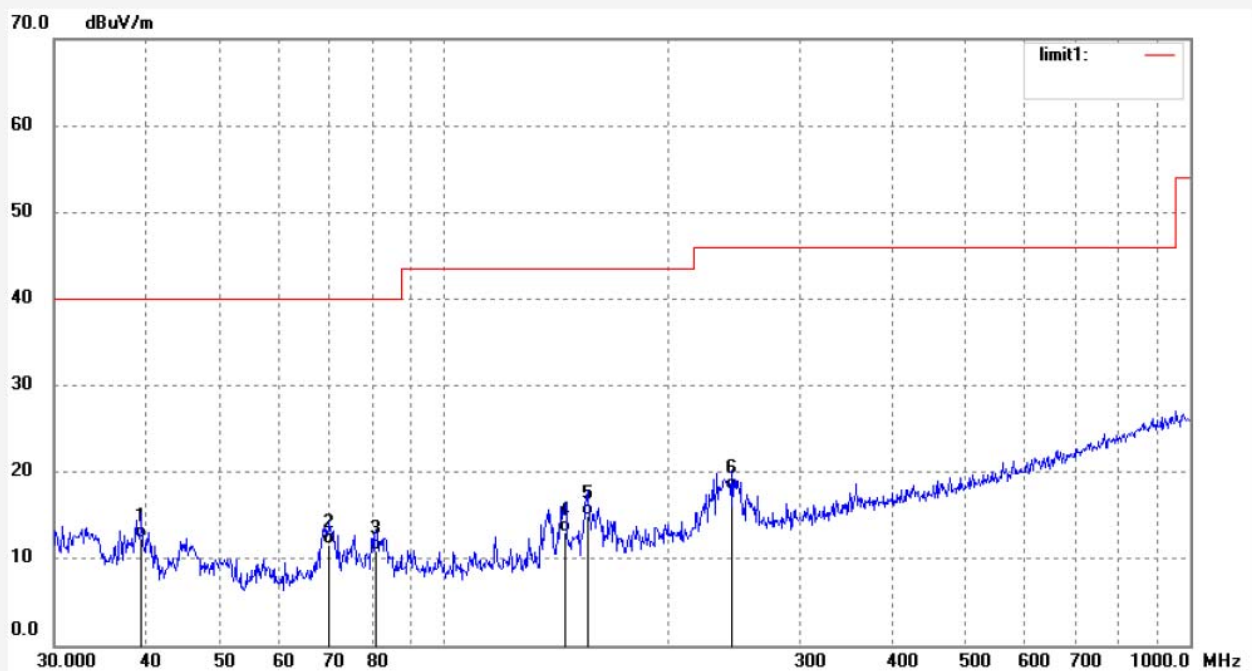
Date: 2016/08/26

Time: 10:43:39

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20161912



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 39.3203     | 31.29            | -18.88      | 12.41           | 40.00          | -27.59      | QP       |             |               |        |
| 2   | 70.2095     | 34.44            | -22.86      | 11.58           | 40.00          | -28.42      | QP       |             |               |        |
| 3   | 81.0885     | 33.67            | -22.78      | 10.89           | 40.00          | -29.11      | QP       |             |               |        |
| 4   | 145.2994    | 35.24            | -22.25      | 12.99           | 43.50          | -30.51      | QP       |             |               |        |
| 5   | 155.8771    | 36.78            | -21.79      | 14.99           | 43.50          | -28.51      | QP       |             |               |        |
| 6   | 243.5431    | 36.11            | -18.22      | 17.89           | 46.00          | -28.11      | QP       |             |               |        |

Job No.: STAR2016 #1862

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Wireless remote control vibrator

Mode: Charging

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Vertical

Power Source: AC 120V/60Hz

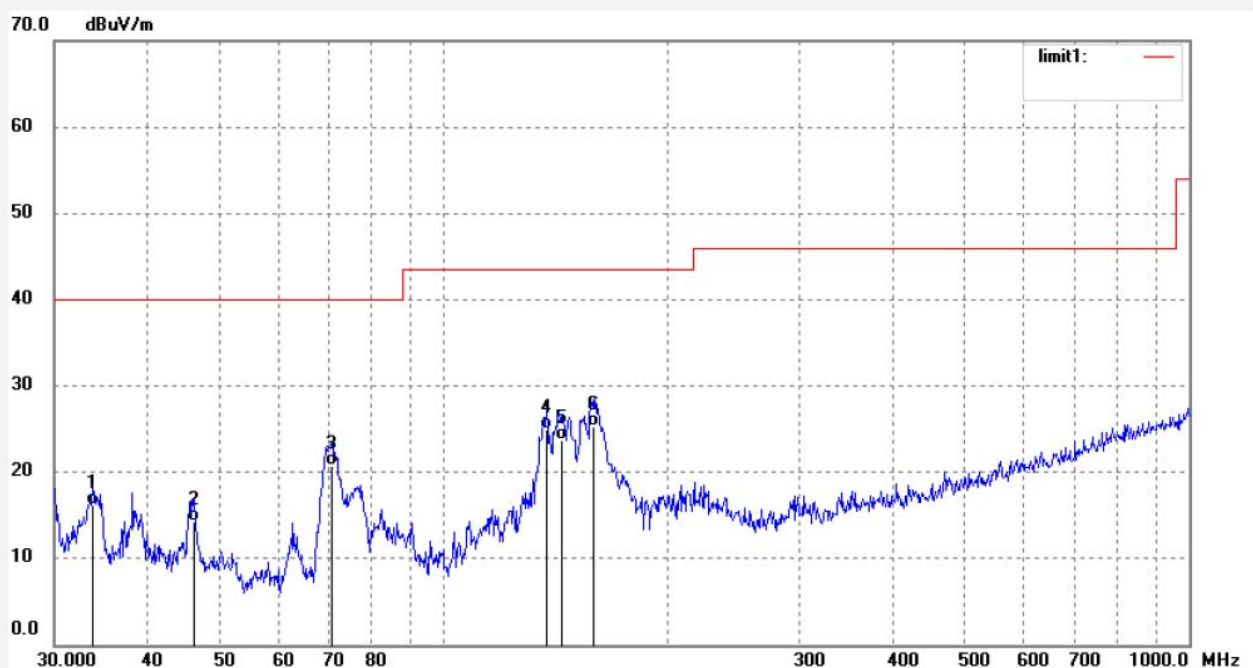
Date: 2016/08/26

Time: 10:41:51

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20161912



| 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   | 33.8067        | 33.46               | -17.34         | 16.12              | 40.00             | -23.88         | QP       |                |                  |        |
| 2   | 46.2180        | 34.02               | -19.70         | 14.32              | 40.00             | -25.68         | QP       |                |                  |        |
| 3   | 70.7047        | 43.55               | -22.89         | 20.66              | 40.00             | -19.34         | QP       |                |                  |        |
| 4   | 137.3565       | 46.87               | -22.00         | 24.87              | 43.50             | -18.63         | QP       |                |                  |        |
| 5   | 144.2820       | 45.90               | -22.22         | 23.68              | 43.50             | -19.82         | QP       |                |                  |        |
| 6   | 159.1983       | 46.74               | -21.42         | 25.32              | 43.50             | -18.18         | QP       |                |                  |        |

Above 1GHz



## ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2016 #1860

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Wireless remote control vibrator

Mode: Charging

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Horizontal

Power Source: AC 120V/60Hz

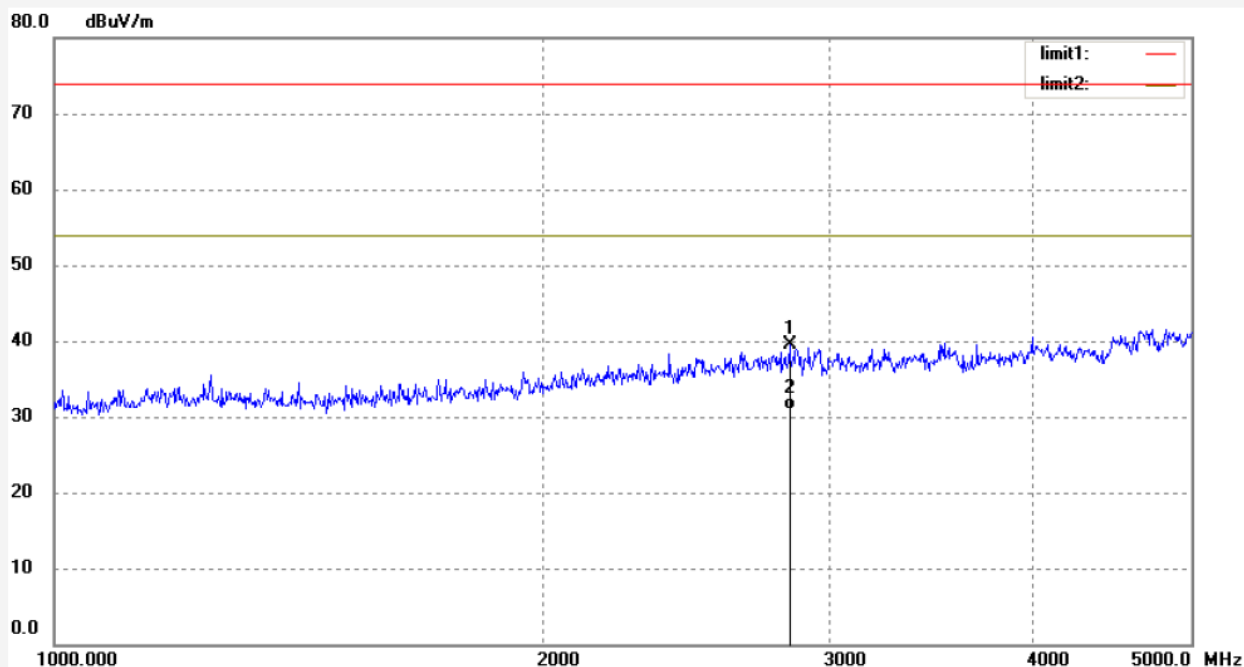
Date: 2016/08/26

Time: 10:38:37

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20161912



| 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   | 2832.374       | 43.72               | -4.23          | 39.49              | 74.00             | -34.51         | peak     |                |                  |        |
| 2   | 2832.374       | 35.06               | -4.23          | 30.83              | 54.00             | -23.17         | AVG      |                |                  |        |



# ACCURATE TECHNOLOGY CO., LTD.

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

Report No.: ATE20161912

Page 22 of 24

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2016 #1861

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Wireless remote control vibrator

Mode: Charging

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Vertical

Power Source: AC 120V/60Hz

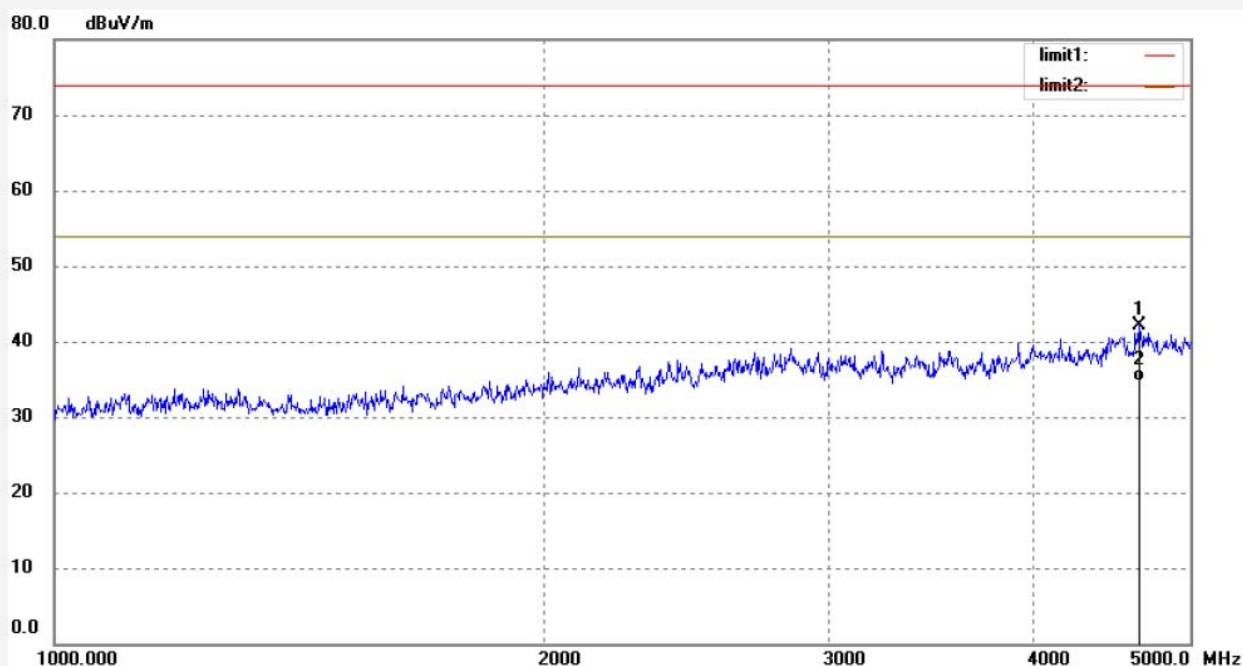
Date: 2016/08/26

Time: 10:39:25

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20161912



| 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   | 4648.646       | 42.24               | -0.04          | 42.20              | 74.00             | -31.80         | peak     |                |                  |        |
| 2   | 4648.646       | 34.67               | -0.04          | 34.63              | 54.00             | -19.37         | AVG      |                |                  |        |



## ACCURATE TECHNOLOGY CO., LTD.

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

Report No.: ATE20161912

Page 23 of 24

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2015 #1738

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Wireless remote control vibrator

Mode: RX(433.92MHz)

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Horizontal

Power Source: DC 3.7V

Date: 16/08/27/

Time: 9/55/36

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20161912



| No. | Freq.<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|-------------------|----------------|------------------|-----------------|----------------|----------|----------------|------------------|--------|
| 1   | 2316.660       | 59.15             | -7.82          | 51.33            | 74.00           | -22.67         | peak     |                |                  |        |
| 2   | 2316.660       | 45.10             | -7.82          | 37.28            | 54.00           | -16.72         | AVG      |                |                  |        |



# ACCURATE TECHNOLOGY CO., LTD.

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

Report No.: ATE20161912

Page 24 of 24

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2015 #1737

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Wireless remote control vibrator

Mode: RX(433.92MHz)

Model: TRC-013 NAV

Manufacturer: TOPARC

Polarization: Vertical

Power Source: DC 3.7V

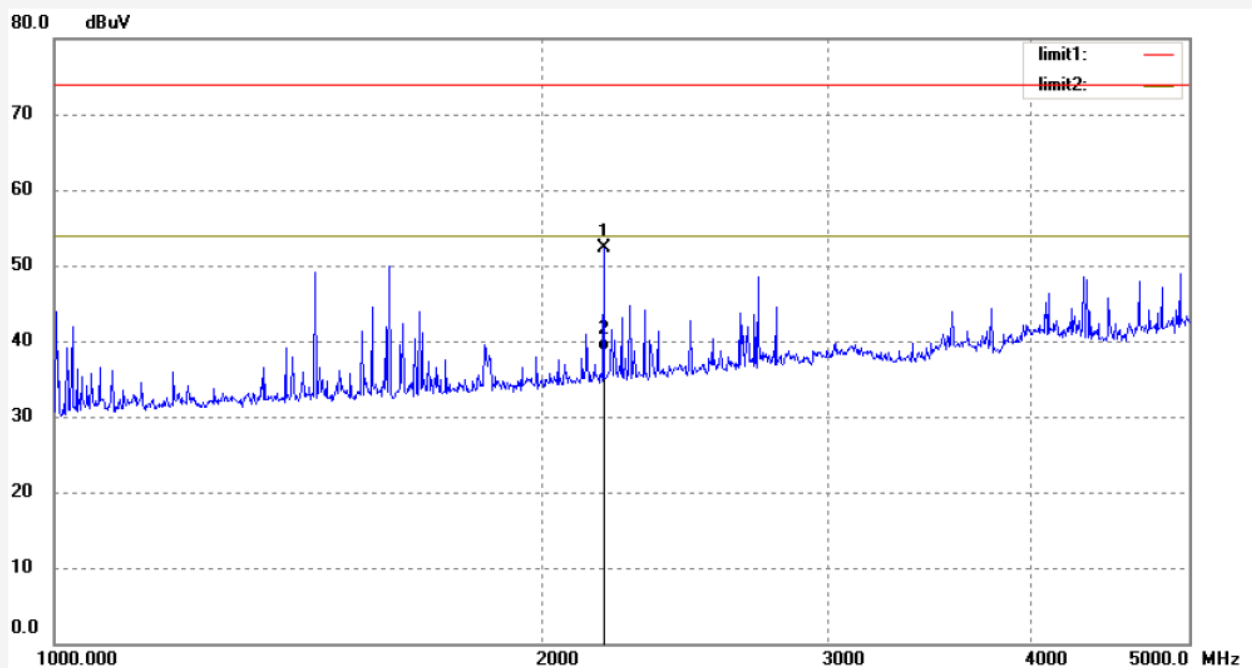
Date: 16/08/27/

Time: 9/54/56

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20161912



| No. | Freq.<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|-------------------|----------------|------------------|-----------------|----------------|----------|----------------|------------------|--------|
| 1   | 2179.222       | 60.63             | -8.31          | 52.32            | 74.00           | -21.68         | peak     |                |                  |        |
| 2   | 2179.222       | 47.00             | -8.31          | 38.69            | 54.00           | -15.31         | AVG      |                |                  |        |