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

Wireless remote control vibrator Model No.: BV-005 BLK, BV-005 FUC

FCC ID: 2AG2K-BV-005RX

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.

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Report No. : ATE20162160

Date of Test : October 25-28, 2016 Date of Report : October 31, 2016





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## Test Report Declaration

Applicant : A&H Design Group, Ltd.

Manufacturer : TOPARC Technology(Shenzhen)Co.,Ltd.

Product : Wireless remote control vibrator

Model No. : BV-005 BLK, BV-005 FUC

(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 BV-005 BLK 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:	October 25-28, 2016
Date of Report :	October 31, 2016
Prepared by :	BobWard
	(Bob Wang, Engineer)
Approved & Authorized Signer :	4 emil
	(Sean Liu, Manager)



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## 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



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## 2. GENERAL INFORMATION

## 2.1.Product of Device (EUT)

**:** Wireless remote control vibrator

Model Number : BV-005 BLK, BV-005 FUC

Power Supply : DC 5V(powered by Charge port)

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,

Hung Hom ,Kowloon, Hong Kong

Manufacturer : TOPARC Technology(Shenzhen)Co., Ltd.

Address : 1/2F, 12 Building, Lianchuang Park, Bulan Road, Buji Town,

Longgang District, Shenzhen City, Guangdong Province, P.R.

China

Date of sample

received

: October 20, 2016

Date of Test : October 25-28, 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



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## 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)



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## 3. MEASURING DEVICE AND TEST EQUIPMENT

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

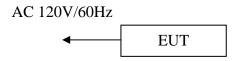
Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 09, 2016	One Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 09, 2016	One Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 09, 2016	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 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 Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 09, 2016	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 09, 2016	One Year



## 4. POWER LINE CONDUCTED MEASUREMENT

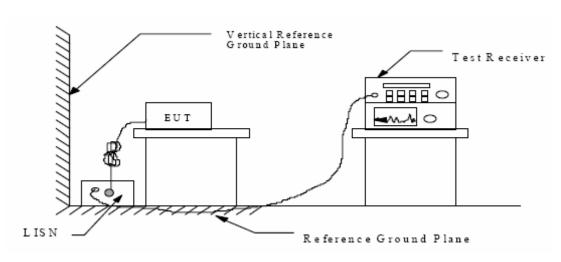
## 4.1. Block Diagram of Test Setup

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	Limit dB(μV)				
(MHz)	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			

<sup>\*</sup> Decreases with the logarithm of the frequency.



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## 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: BV-005 BLK

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.

Took Moder Charging	(4.00) //6/	) I I=\					
Test Mode: Charging(	•	•	-1 fin	"			
10/25/2016 10 Frequency MHz			Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.595000 0.775000 1.085000 2.400000 5.940000	29.10 43.50 48.70 42.70 39.40 35.70	10.5 10.7 10.8 10.9 11.0 11.2	66 56 56 56 56	36.9 12.5 7.3 13.3 16.6 24.3	QP QP QP QP	L1 L1 L1 L1 L1	GND GND GND GND GND GND
MEASUREMENT	RESULT:	"2160	-1_fin	2"			
10/25/2016 10 Frequency MHz			Limit dBµV	Margin dB	Detector	Line	PE
0.505000 0.590000 0.765000 1.085000 2.460000 5.830000	36.70 38.90 42.30 35.50 32.70 28.60	10.9 11.0	46 46 46 46 46	9.3 7.1 3.7 10.5 13.3 21.4	AV AV AV	L1 L1 L1 L1 L1	GND GND GND GND GND GND
MEASUREMENT	RESULT	: "2160	)-2_fi	n"			
10/25/2016 10 Frequency MHz	Level	Transd dB			Detecto	r Lin	e PE
0.335000 0.770000 1.065000 2.670000 6.400000	35.40 46.00 39.60 37.70 30.00	10.6 10.8 10.9 11.0 11.2	56 56 56	10.0 16.4 18.3	QP QP QP	N N N N	GND GND GND GND GND
MEASUREMENT	RESULT	: "2160	-2_fi	n2"			
10/25/2016 10 Frequency MHz				_	Detecto	r Lin	e PE
0.335000 0.585000 0.770000 1.085000 2.550000 5.850000	32.50 38.30 42.10 35.00 32.80 28.50	10.6 10.7 10.8 10.9 11.0	46 46	7.7	AV AV AV AV	N N N N N	GND GND GND GND GND

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

The spectral diagrams are shown in the following pages.





#### CONDUCTED EMISSION STANDARD FCC PART15B

Wireless remote control vibrator M/N:BV-005 BLK

Manufacturer: TOPARC Operating Condition: Charging

Test Site: 1#Shielding Room FrankOperator: Test Specification: L 120V/60Hz

Report NO.:ATE20162160 10/25/2016 / 10:00:25AM Comment: Start of Test:

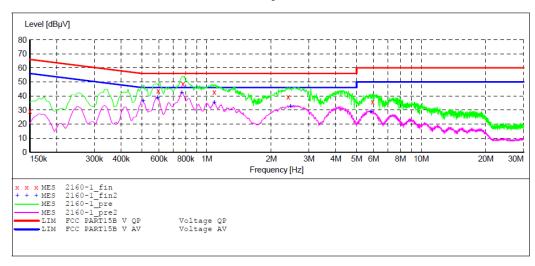
SCAN TABLE: "V 9K-30MHz fin"
Short Description: \_SUB\_STD\_VTERM2 1.70
Start Stop Step Detector Meas. Detector Meas. IF Transducer

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

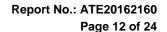


#### MEASUREMENT RESULT: "2160-1 fin"

10/25/2016 10 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.595000 0.775000 1.085000 2.400000 5.940000	29.10 43.50 48.70 42.70 39.40 35.70	10.5 10.7 10.8 10.9 11.0	66 56 56 56 56	36.9 12.5 7.3 13.3 16.6 24.3	QP QP QP QP QP QP	L1 L1 L1 L1 L1	GND GND GND GND GND GND

#### MEASUREMENT RESULT: "2160-1 fin2"

10/25/2016 1 Frequency MHz	0:04AM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.505000	36.70	10.7	46	9.3	AV	L1	GND
0.590000	38.90	10.7	46	7.1	AV	L1	GND
0.765000	42.30	10.8	46	3.7	AV	L1	GND
1.085000	35.50	10.9	46	10.5	AV	L1	GND
2.460000	32.70	11.0	46	13.3	AV	L1	GND
5.830000	28.60	11.2	50	21.4	AV	L1	GND





#### CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Wireless remote control vibrator M/N:BV-005 BLK

Manufacturer: TOPARC Operating Condition: Chargir

Test Site: 1#Shiel Operator: Frank Test Specification: N 120V/60Hz

Report NO.:ATE20162160 10/25/2016 / 10:08:33AM Comment: Start of Test:

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

Short Description: \_\_\_\_SUB\_STD\_VTERM2 1.70

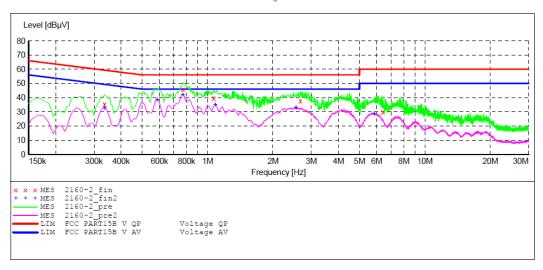
Stop Step Detector Meas. IF Transducer Bandw.

Frequency Frequency Width 9.0 kHz 150.0 kHz 100.0 Hz Time 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: "2160-2\_fin"

1	0/25/2016 10 Frequency	Level				Detector	Line	PE
	MHz	dΒμV	dB	dΒμV	dB			
	0.335000	35.40	10.6	59	23.9	QP	N	GND
	0.770000	46.00	10.8	56	10.0	QP	N	GND
	1.065000	39.60	10.9	56	16.4	QP	N	GND
	2.670000	37.70	11.0	56	18.3	QP	N	GND
	6.400000	30.00	11.2	60	30.0	OP	N	GND

#### MEASUREMENT RESULT: "2160-2 fin2"

10/25/2016 10 Frequency MHz	:09AM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.335000	32.50	10.6	49	16.8	AV	N	GND
0.585000	38.30	10.7	46	7.7	AV	N	GND
0.770000	42.10	10.8	46	3.9	AV	N	GND
1.085000	35.00	10.9	46	11.0	AV	N	GND
2.550000	32.80	11.0	46	13.2	AV	N	GND
5.850000	28.50	11.2	50	21.5	AV	N	GND

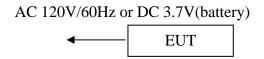
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## 5. RADIATED EMISSION MEASUREMENT

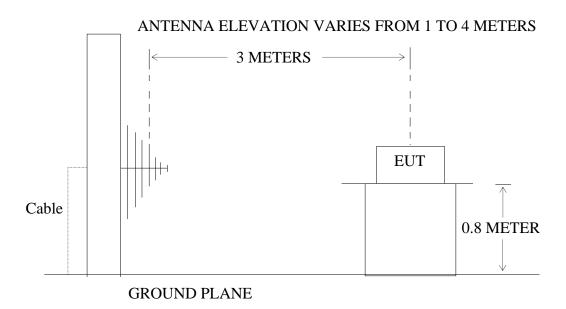
## 5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators



(EUT: Wireless remote control vibrator)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless remote control vibrator)



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

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

Frequency	Distance	Field Strengths Limit			
MHz	Meters	μV/m	dB(μV/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 dB ( $\mu$ V) = 20 log Emission level  $\mu$ V/m.

- (2)The smaller limit shall apply at the cross point between two frequency bands.
- (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: BV-005 BLK

Serial Number: N/A

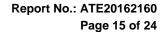
Manufacturer: TOPARC Technology(Shenzhen)Co., Ltd.

## 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: BV-005 BLK								
l est mode	Test mode: Charging(120V/60Hz)							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Horizontal	1	32.7486	32.76	-10.20	22.56	40.00	-17.44	QP
	2	39.0245	31.60	-11.32	20.28	40.00	-19.72	QP
	3	56.3947	41.75	-13.21	28.54	40.00	-11.46	QP
	4	65.8031	38.00	-15.75	22.25	40.00	-17.75	QP
	5	74.3954	44.44	-16.63	27.81	40.00	-12.19	QP
	6	135.9822	35.18	-14.20	20.98	43.50	-22.52	QP
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	38.6160	44.62	-11.22	33.40	40.00	-6.60	QP
	2	54.0711	47.35	-12.89	34.46	40.00	-5.54	QP
Vertical	3	60.7044	50.70	-14.17	36.53	40.00	-3.47	QP
	4	78.9652	53.56	-16.52	37.04	40.00	-2.96	QP
	5	99.8777	33.85	-13.09	20.76	43.50	-22.74	QP
	6	143.3261	47.73	-15.12	32.61	43.50	-10.89	QP
Above 1G								
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1119.252	45.69	-12.56	33.13	74.00	-40.87	peak
	2	1180.304	46.03	-12.50	33.53	74.00	-40.47	peak
Horizontal	3	1559.250	45.12	-11.01	34.11	74.00	-39.89	peak
	4	2017.209	45.14	-8.99	36.15	74.00	-37.85	peak
	5	2656.286	44.44	-6.64	37.80	74.00	-36.20	peak
	6	3248.224	44.44	-4.30	40.14	74.00	-33.86	peak
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1122.861	45.39	-12.55	32.84	74.00	-41.16	peak
	2	1657.588	45.59	-10.69	34.90	74.00	-39.10	peak
Vertical	3	1953.312	44.67	-9.29	35.38	74.00	-38.62	peak
	4	3085.169	44.84	-4.51	40.33	74.00	-33.67	peak
	5	3748.473	43.90	-2.30	41.60	74.00	-32.40	peak
	6	4741.372	44.03	-0.65	43.38	74.00	-30.62	peak



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Model Number: BV-005 BLK Test mode: 433.92MHz RX(DC 3.7V)

Test mode	: 433.	92MHz RX([	DC 3.7V)					
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	153.7385	48.70	-14.98	33.72	43.50	-9.78	QP
Horizontal	2	239.9874	46.20	-10.62	35.58	46.00	-10.42	QP
	3	307.8313	47.70	-8.80	38.90	46.00	-7.10	QP
	4	401.8385	47.20	-6.41	40.79	46.00	-5.21	QP
	5	460.7271	45.50	-5.17	40.33	46.00	-5.67	QP
	6	522.7179	43.30	-3.78	39.52	46.00	-6.48	QP
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	39.1615	31.20	-11.36	19.84	40.00	-20.16	QP
M. C. I	2	59.2325	28.40	-13.79	14.61	40.00	-25.39	QP
Vertical	3	122.8340	38.60	-13.47	25.13	43.50	-18.37	QP
	4	135.5062	41.20	-14.19	27.01	43.50	-16.49	QP
	5	216.7828	32.50	-11.81	20.69	46.00	-25.31	QP
	6	747.4825	30.90	-1.07	29.83	46.00	-16.17	QP
Above 1G								
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1144.757	57.35	-12.51	44.84	74.00	-29.16	peak
	2	1205.259	59.81	-12.48	47.33	74.00	-26.67	peak
Horizontal	3	1271.003	59.70	-12.26	47.44	74.00	-26.56	peak
	4	1420.285	54.63	-11.72	42.91	74.00	-31.09	peak
	5	1770.657	55.27	-10.28	44.99	74.00	-29.01	peak
	6	2563.879	49.13	-6.89	42.24	74.00	-31.76	peak
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1141.079	51.25	-12.52	38.73	74.00	-35.27	peak
	2	1211.093	54.37	-12.46	41.91	74.00	-32.09	peak
Vertical	3	1427.159	50.11	-11.70	38.41	74.00	-35.59	peak
	4	1762.128	52.19	-10.36	41.83	74.00	-32.17	peak
	5	1947.034	56.85	-9.33	47.52	74.00	-26.48	peak
	6	2535.156	48.53	-7.09	41.44	74.00	-32.56	peak



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

#### Below 1GHz



## ACCURATE TECHNOLOGY CO., LTD.

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

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 16/10/28/ Time: 9/56/03

Engineer Signature:FRANK

Distance: 3m

Job No.: FRANK #771

Standard: FCC Class B 3M Radiated

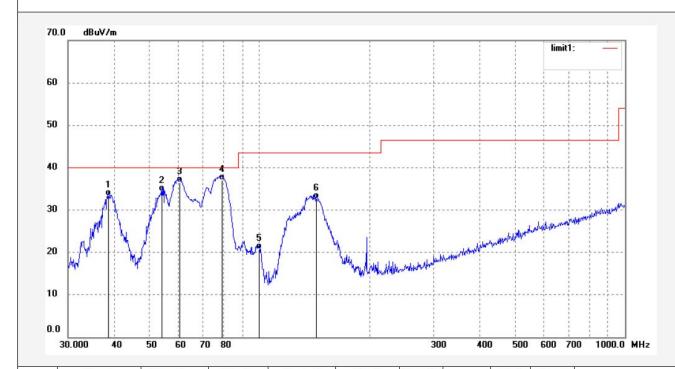
Test item: Radiation Test

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

EUT: Wireless remote control vibrator

Mode: Charging
Model: BV-005 BLK
Manufacturer: TOPARC

Note: Report NO.:ATE20162160



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	38.6160	44.62	-11.22	33.40	40.00	-6.60	QP			
2	54.0711	47.35	-12.89	34.46	40.00	-5.54	QP		,	
3	60.7044	50.70	-14.17	36.53	40.00	-3.47	QP			
4	78.9652	53.56	-16.52	37.04	40.00	-2.96	QP			
5	99.8777	33.85	-13.09	20.76	43.50	-22.74	QP			
6	143.3261	47.73	-15.12	32.61	43.50	-10.89	QP			





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Report No.: ATE20162160

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Job No.: FRANK #772

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless remote control vibrator

Mode: Charging
Model: BV-005 BLK
Manufacturer: TOPARC

Note: Report NO.:ATE20162160

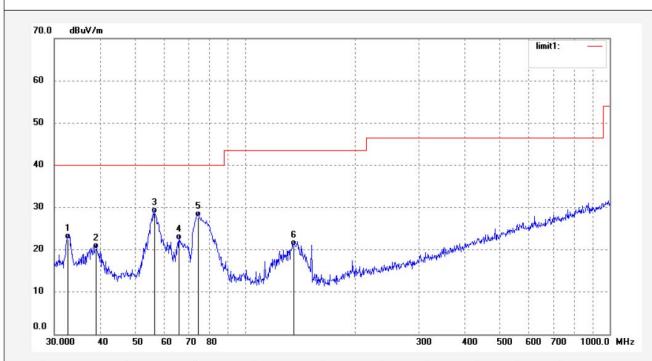
Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 16/10/28/ Time: 9/57/54

Engineer Signature:FRANK

Distance: 3m



				X/-		¥		AV.	V.	
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	32.76	-10.20	22.56	40.00	-17.44	QP			
2	39.0245	31.60	-11.32	20.28	40.00	-19.72	QP			
3	56.3947	41.75	-13.21	28.54	40.00	-11.46	QP			
4	65.8031	38.00	-15.75	22.25	40.00	-17.75	QP			
5	74.3954	44.44	-16.63	27.81	40.00	-12.19	QP			
6	135.9822	35.18	-14.20	20.98	43.50	-22.52	QP			



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Report No.: ATE20162160

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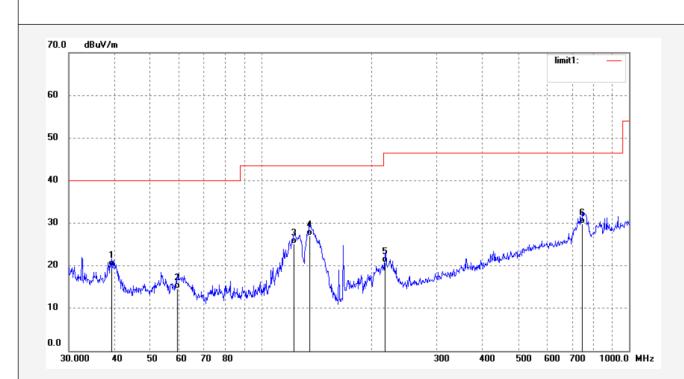
Job No.: FRANK #790 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3.7V

Standard: FCC Class B 3M Radiated Power Source: DC 3.7 Test item: Radiation Test Date: 16/10/28/

Temp.( C)/Hum.(%) 23 C / 48 % Time: 11/08/39
EUT: Wireless remote control vibrator Engineer Signature:
Mode: RX(433.92MHz) Distance: 3m

Model: BV-005 BLK
Manufacturer: TOPARC

Note: Report NO.:ATE20162160



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.1615	31.20	-11.36	19.84	40.00	-20.16	QP			
2	59.2325	28.40	-13.79	14.61	40.00	-25.39	QP			
3	122.8340	38.60	-13.47	25.13	43.50	-18.37	QP			
4	135.5062	41.20	-14.19	27.01	43.50	-16.49	QP			
5	216.7828	32.50	-11.81	20.69	46.00	-25.31	QP			
6	747.4825	30.90	-1.07	29.83	46.00	-16.17	QP			





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Report No.: ATE20162160

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Job No.: FRANK #791 Polarization: Standard: FCC Class B 3M Radiated Power Source: DC 3.7V

Test item: Radiation Test

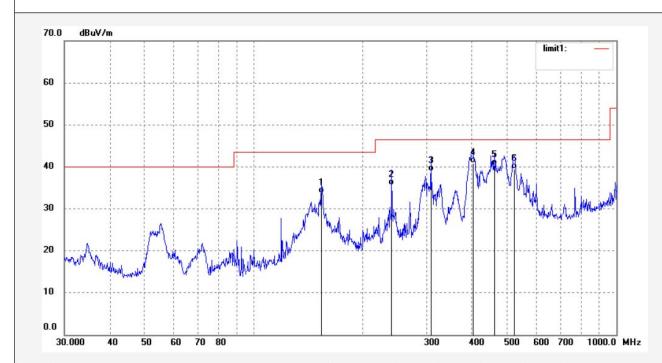
Temp.( C)/Hum.(%) 23 C / 48 % EUT: Wireless remote control vibrator

Mode: RX(433.92MHz) Model: **BV-005 BLK** Manufacturer: TOPARC

Report NO.:ATE20162160 Note:

Horizontal

Date: 16/10/28/ Time: 14:42:15 Engineer Signature: 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	153.7385	48.70	-14.98	33.72	43.50	-9.78	QP			
2	239.9874	46.20	-10.62	35.58	46.00	-10.42	QP			
3	307.8313	47.70	-8.80	38.90	46.00	-7.10	QP			
4	401.8385	47.20	-6.41	40.79	46.00	-5.21	QP			
5	460.7271	45.50	-5.17	40.33	46.00	-5.67	QP			
6	522.7179	43.30	-3.78	39.52	46.00	-6.48	QP			



#### Above 1GHz

Distance: 3m

Report No.: ATE20162160 Page 21 of 24



## ACCURATE TECHNOLOGY CO., LTD.

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Job No.: FRANK #773 Polarization: Horizontal
Standard: FCC PK Power Source: AC 120V/60Hz

 Standard:
 FCC PK
 Power Source:
 AC 120V/60H

 Test item:
 Radiation Test
 Date: 16/10/28/

 Temp.( C)/Hum.(%)
 23 C / 48 %
 Time: 18/13/13

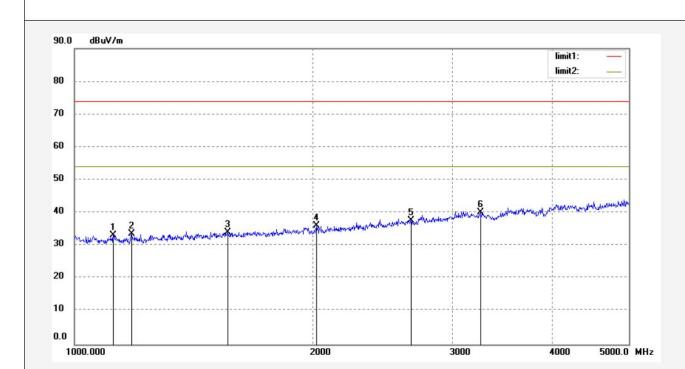
EUT: Wireless remote control vibrator Engineer Signature:FRANK

Mode: Charging

Model: BV-005 BLK

Manufacturer: TOPARC

Note: Report NO.:ATE20162160



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1119.252	45.69	-12.56	33.13	74.00	-40.87	peak			
2	1180.304	46.03	-12.50	33.53	74.00	-40.47	peak			
3	1559.250	45.12	-11.01	34.11	74.00	-39.89	peak			
4	2017.209	45.14	-8.99	36.15	74.00	-37.85	peak			
5	2656.286	44.44	-6.64	37.80	74.00	-36.20	peak			
6	3248.224	44.44	-4.30	40.14	74.00	-33.86	peak			



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Site: 2# Chamber
Tel:+86-0755-26503290

Report No.: ATE20162160

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China Fax:+86-0755-26503396

Job No.: FRANK #774 Polarization: Vertical

Standard: FCC PK Power Source: AC 120V/60Hz

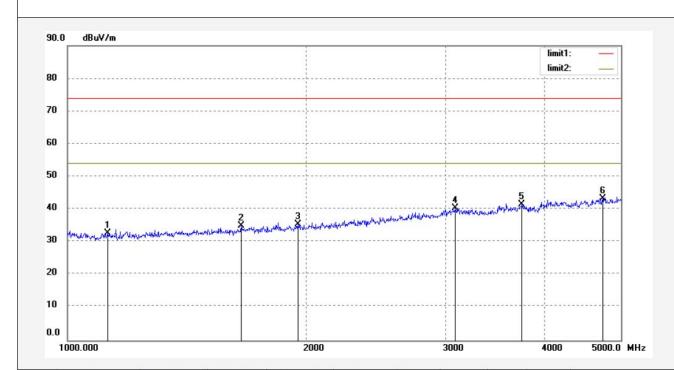
Test item: Radiation Test Date: 16/10/28/
Temp.( C)/Hum.(%) 23 C / 48 % Time: 18/14/37

EUT: Wireless remote control vibrator Engineer Signature:FRANK

Mode: Charging Distance: 3m

Model: BV-005 BLK Manufacturer: TOPARC

Note: Report NO.:ATE20162160



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1122.861	45.39	-12.55	32.84	74.00	-41.16	peak			
2	1657.588	45.59	-10.69	34.90	74.00	-39.10	peak		1	
3	1953.312	44.67	-9.29	35.38	74.00	-38.62	peak		1	
4	3085.169	44.84	-4.51	40.33	74.00	-33.67	peak			
5	3748.473	43.90	-2.30	41.60	74.00	-32.40	peak		1	
6	4741.372	44.03	-0.65	43.38	74.00	-30.62	peak		1	





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Distance: 3m

3000

4000

5000.0 MHz

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Report No.: ATE20162160

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Job No.: FRANK #769 Polarization: Vertical Standard: FCC PK Power Source: DC 3.7V

Test item: Radiation Test Power Source: DC 3.7

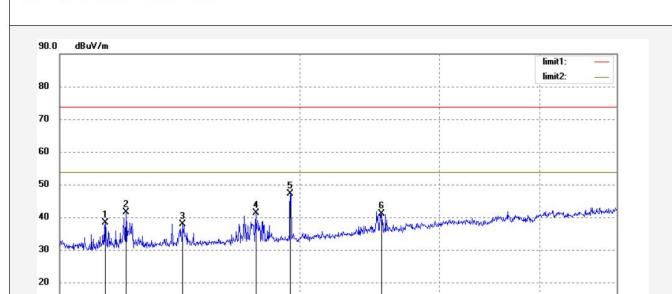
Temp.( C)/Hum.(%) 23 C / 48 % Time: 18/07/58 EUT: Wireless remote control vibrator Engineer Signature:

Mode: RX(433.92MHz)

Model: BV-005 BLK

Manufacturer: TOPARC

Note: Report NO.:ATE20162160



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1141.079	51.25	-12.52	38.73	74.00	-35.27	peak			
2	1211.093	54.37	-12.46	41.91	74.00	-32.09	peak			
3	1427.159	50.11	-11.70	38.41	74.00	-35.59	peak			
4	1762.128	52.19	-10.36	41.83	74.00	-32.17	peak			
5	1947.034	56.85	-9.33	47.52	74.00	-26.48	peak			
6	2535.156	48.53	-7.09	41.44	74.00	-32.56	peak			

2000

10

0.0

1000.000



Report No.: ATE20162160 Page 24 of 24

Site: 2# Chamber Tel:+86-0755-26503290 F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Fax:+86-0755-26503396 Science & Industry Park, Nanshan Shenzhen, P.R. China

Distance: 3m

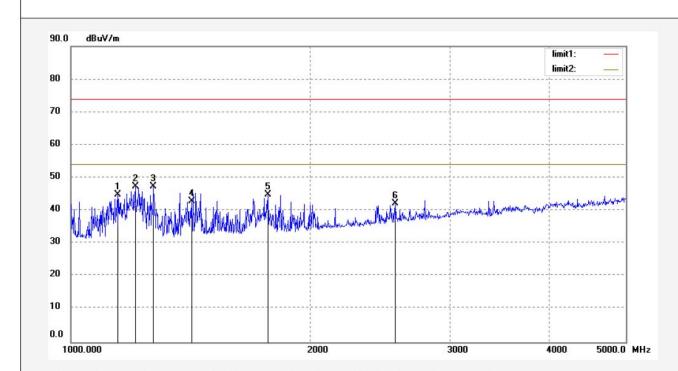
Job No.: FRANK #770 Polarization: Horizontal Standard: FCC PK Power Source: DC 3.7V

Test item: Radiation Test Date: 16/10/28/ Temp.( C)/Hum.(%) 23 C / 48 % Time: 18/10/43

EUT: Wireless remote control vibrator Engineer Signature:

Mode: RX(433.92MHz) Model: **BV-005 BLK** Manufacturer: TOPARC

Report NO.:ATE20162160 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1144.757	57.35	-12.51	44.84	74.00	-29.16	peak			
2	1205.259	59.81	-12.48	47.33	74.00	-26.67	peak			
3	1271.003	59.70	-12.26	47.44	74.00	-26.56	peak			
4	1420.285	54.63	-11.72	42.91	74.00	-31.09	peak			
5	1770.657	55.27	-10.28	44.99	74.00	-29.01	peak			
6	2563.879	49.13	-6.89	42.24	74.00	-31.76	peak			