

FCC PART 15.249  
EMI MEASUREMENT AND TEST REPORT  
For  
Blueone Technology Co., Ltd.  
Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China

**FCC ID:YBVW28**

Apr. 19, 2010

This Report Concerns: Original Report	Equipment Type : Bluetooth marketing device
Test Engineer:	Eric Li <i>Eric Li</i>
Report No.:	<u>BST10040200119R-3</u>
Receive EUT Date/Test Date:	<u>Apr.12,2010/ Apr.12-Apr.19,2010</u>
Reviewed By:	Christina <i>Christina</i>
Prepared By:	 <p>Shenzhen BST Technology Co.,Ltd. 3F,Weames Technology Building, No. 10 Kefa Road, Science Park, Nanshan District,Shenzhen,Guangdong,China Tel: 0755-26747751 ~ 3 Fax: 0755-26747751 ~ 3 ext.826</p>

**Note:** The test report is specially limited to the above company and this particular sample only.  
It may not be duplicated without prior written consent of Shenzhen BST Technology Co.,Ltd.  
This report must not be used by the client to claim product certification,approval,or  
endorsement by NVLAP, NIST or any agency of the US Government.

## TABLE OF CONTENTS

<b>1.</b>	<b>GENERAL INFORMATION .....</b>	<b>3</b>
1.1.	Report information.....	3
1.2.	Objective .....	3
1.3.	Measurement Uncertainty .....	3
<b>2.</b>	<b>PRODUCT DESCRIPTION .....</b>	<b>4</b>
2.1.	EUT Description .....	4
2.2.	Block Diagram of EUT Configuration.....	4
2.3.	Support Equipment List .....	4
2.4.	Test Conditions .....	4
<b>3.</b>	<b>FCC ID LABEL.....</b>	<b>5</b>
<b>4.</b>	<b>TEST RESULTS SUMMARY .....</b>	<b>6</b>
	Modifications .....	6
	Accreditation scope to the new version of ANSI C63.4-2009:.....	6
<b>5.</b>	<b>TEST EQUIPMENT USED .....</b>	<b>8</b>
<b>6.</b>	<b>§15.203 - ANTENNA REQUIREMENT .....</b>	<b>9</b>
6.1.	Standard Applicable.....	9
6.2.	Antenna Connector Construction.....	9
<b>7.</b>	<b>CONDUCTED POWER LINE TEST .....</b>	<b>10</b>
7.1.	Test Equipment .....	10
7.2.	Test Procedure .....	10
7.3.	Test Setup.....	10
7.4.	Configuring of the EUT .....	10
7.5.	EUT Operating Condition.....	12
7.6.	Conducted Power line Emission Limits.....	12
7.7.	Conducted Power Line Test Result.....	13
7.8.	Plot(s) of Test Data .....	14
<b>8.</b>	<b>RADIATED EMISSION TEST .....</b>	<b>16</b>
8.1.	Test Equipment .....	16
8.2.	Test Procedure .....	16
8.3.	Radiated Test Setup .....	16
8.4.	Confihuration of the EUT .....	17
8.5.	EUT Operating Condition.....	17
8.6.	Radiated Emission Limit.....	17
8.7.	Radiated Emission Test Result .....	18
<b>9.</b>	<b>BAND EDGE .....</b>	<b>21</b>
9.1.	Test Equipment .....	21
9.2.	Test Procedure .....	21
9.3.	Configuration of The EUT .....	21
9.4.	EUT Operating Condition.....	21
9.5.	Band Edge FCC 15.249(d) Limit.....	21
9.6.	Band Edge Test Result.....	21

## 1. GENERAL INFORMATION

### 1.1. Report information

1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

#### Test Facility -

The test site used to collect the data is located on the address of  
Shenzhen Academy of Metrology & Quality Inspection  
(FCC Registered Test Site Number: 274801) on  
Bldg. Metrology & Quality Inspection, Longzhu Road, Nanshan,  
Shenzhen, Guangdong, China  
The Test Site is constructed and calibrated to meet the FCC requirements.

### 1.2. Objective

This type approval report is prepared on behalf of Blueone Technology Co., Ltd. Address: Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China in accordance with Part 15.249 the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for Conducted Test, Field Strength of Fundamental, band edge and Radiated Test.

### 1.3. Measurement Uncertainty

Available upon request.

## 2. PRODUCT DESCRIPTION

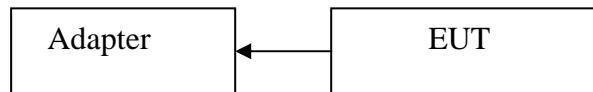
### 2.1. EUT Description

Description : Bluetooth marketing device  
Applicant : Blueone Technology Co., Ltd.  
Room 418, 4/F. 404 Bldg. Shangbu Industry Zone,  
Futian, Shenzhen China  
Model Number : W28, U14, U28, N14, N28, W14, G14, G28, R14, P14

#### **Additonal Information**

Frequency : 2402MHz~2480MHz  
Number : -  
of Channels  
Power Supply : AC 230V By Adapter  
Maximum : N/A  
Range  
Transmitter  
Antenna : The antenna used in this product is directional with  
SMA Plug reverse connector. The antenna is  
permanently attached. Refer to the product photo.  
Gain of  
Antenna : 0dBi

### 2.2. Block Diagram of EUT Configuration



### 2.3. Support Equipment List

N/A

### 2.4. Test Conditions

Temperature: 23~25  
Relative Humidity: 55~63 %

### 3. FCC ID LABEL

**FCC ID:YBVW28**

**This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:**  
**1. This device may not cause harmful interference, and**  
**2. This device must accept any interference received, including interference that may cause undesired operation.**

**Label Location on EUT**

**EUT Top View/ FCC ID Label Location**



## 4. TEST RESULTS SUMMARY

### FCC 15 Subpart C,Paragraph 15.249

Test Standards	Test Items	Test Results
FCC Part 15,Paragraph 15.203	Antenna Requirement	Pass
FCC Part 15,Paragraph 15.207	Conducted Test	Pass
FCC Part 15 Subpart C, Paragraph 15.249(a) and 15.249(b)	Field Strength of Fundamental	Pass
FCC Part 15,Paragraph 15.209	Radiated Test	Pass
FCC Part 15 Subpart C, Paragraph 15.249(d)	Measured Band Edges	Pass

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

### Modifications

No modification was made.

### Accreditation scope to the new version of ANSI C63.4-2009:

This standard specifies U.S. consensus standard methods, instrumentation, and facilities for measurement of radio-frequency (RF) signals and noise emitted from electrical and electronic devices in the frequency range 9 kHz to 40 GHz. It does not include generic nor product-specific emission limits. Where possible, the specifications herein are harmonized with other national and international standards used for similar purposes.

Uses of the word shall in this standard indicate a mandatory requirement that must be met to satisfy this standard. The word should is used to indicate that a requirement is recommended but not mandatory. Tolerances on dimensions and distances are based on good engineering practice where not specified. The word may is used to indicate a recommendation that is at the discretion of the user. In addition, notes in this document are informative and are not part of the requirements. In this standard, the text takes precedence over the figures because the text is complete and the figures are illustrative of a typical application of the text. Notes are used in the text for emphasis or to offer informative suggestions about the technical content of the standard, and these notes provide additional information to assist the reader with a particular passage but do not include mandatory requirements. Footnotes in text are included only for information, clarification, and/or aid applicable to the use of the standard, but mandatory requirements are not included in text footnotes.

Measurement methods are included for radiated and line-conducted emissions that can be generated by a variety of devices, as described in 1.2. Definitions are provided for terms and phrases contained in the text, in which the words do not represent obvious or common usage. Measurement instrumentation, facilities, and test sites are specified and characterized, including open-area test sites (OATS) and RF absorber-lined, metal chambers used for radiated emission measurement. Transverse electromagnetic (TEM) wave devices used for radiated

emission measurement are treated in normative Annex F. The requirements of Annex F, when such tests are performed, shall take precedence in this standard. In most cases, measurement instrumentation and calibration requirements are only generally characterized in deference to standards dedicated to these subjects, which should be used in conjunction with this standard. The requirements for operation of test samples during measurements are presented for devices in general, as well as for specific types of devices that are frequently measured. Specific requirements for emission test data recording and reporting are presented with reference to general requirements contained in documents dedicated to standard laboratory practices, which should be used in conjunction with this standard. The main text is augmented by a series of annexes that provide details for certain measurement methods and facilities. Annex A provides an index of main text clauses to be used when testing particular equipment under test(EUT) types.

## 5. TEST EQUIPMENT USED

Equipment/Facilities	Manufacturer	Model #	Serial no.	Date of Cal.	Cal. Interval
Cable	Resenberger	N/A	NO.1	Mar 10 , 2010	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10 , 2010	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10 , 2010	1 Year
LISN	Rohde & Schwarz	ESH3-Z5	100305	Mar 10 , 2010	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10, 2010	1 Year
EMI Test Receiver	Rohde & Schwarz	ESP13	100180	Oct.18,2009	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep.10,2009	1 Year
3m Semi-Anechoic Chamber	Albatross Projects	9mx6mx6m	N/A	Feb.20,2010	1 Year
Signal Generator	FLUKE	PM5418 + Y/C	LO747012	Feb.20,2010	1 Year
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.20,2010	1 Year
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan.30,2010	1 Year
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.22,2009	1 Year
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-564	Sep.22,2009	1 Year
Ultra Broadband Antenna	Rohde & Schwarz	HL-562	100110	June.15,2009	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct.11,2009	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct.11,2009	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.20,2010	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb.20,2010	1 Year
Coaxial Cable with N-connectors	SCHWARZBECK	AK9515H	95549	Sep.22,2009	1 Year
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.20,2010	1 Year
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.20,2010	1 Year
Absorbing clamp	Rohde & Schwarz	MDS-21	N/A	Oct.29,2009	1 Year

## 6. §15.203 - ANTENNA REQUIREMENT

### 6.1. Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR , if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 6.2. Antenna Connector Construction

The antenna used in this product is directional with SMA Plug reverse connector. The connector is unique. The antenna is permanently attached. Refer to the product photo.

## 7. CONDUCTED POWER LINE TEST

### 7.1. Test Equipment

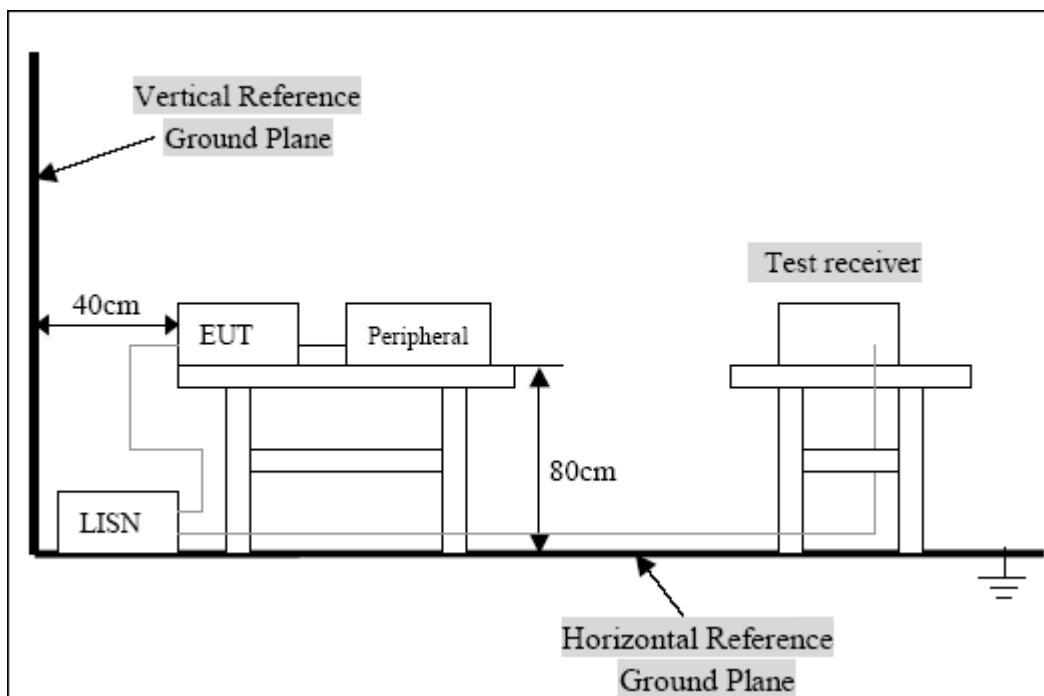
Please refer to section 4 this report.

### 7.2. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.).This provides a 50ohm/50uh coupling impedance for the measuring equipment.The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uh coupling impedance with 50ohm termination.

Both sides of A.C. Line are check for maximum conducted interference.In order to find the maximum emission,the relative positions of equipment and all of the interface cables must be changed according to ASIN C63.4:2009 on conducted measurement .Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9Khz.

### 7.3. Test Setup



For the actual test configuration,Please refer to the related items-Photos of testing

### 7.4. Configuring of the EUT

The EUT was configured according to ASIN C63.4:4-2009. Enable the signal transmitted from the external antenna from EUT to receiver. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Note:

Below 1GHZ, the channel low, middle, high were pre-tested, The channel low, worst case one, was chosen for conducted and radiated emission test.

Above 1GHZ, the channel low ,middle, high were tested individually.

## A.EUT

Device	Manufacturer	Model #	FCC ID
Bluetooth marketing device	Blueone Technology Co., Ltd.	W28, U14, U28, N14, N28, W14, G14, G28, R14, P14	YBVW28

## B.Internal Devices

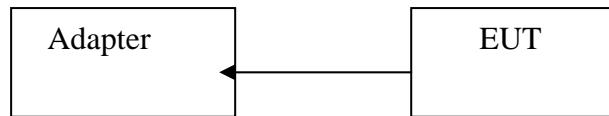
Device	Manufacturer	Model #	FCC ID
N/A			

## C.Peripherals

Device	Manufacturer	Model # Serial #	FCC ID/ Doc	Cable
N/A				

## 7.5. EUT Operating Condition

Operating condition is according to ANSI C63.4-2009.  
Setup the EUT and simulators as shown on follow.  
Enable RF signal and confirm EUT active.  
Modulate output capacity of EUT up to specification.



## 7.6. Conducted Power line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency Range (MHZ)	Class A QP/AV	Class B QP/AV
0.15-0.5	79/66	65-56/56-46
0.5-5.0	73/60	56-46
5.0-3.0	73/60	60-50

**Note:** In the above table, the tighter limit applies at the band edges.

## 7.7. Conducted Power Line Test Result

### Test Facility -

The test site used to collect the data is located on the address of Shenzhen Academy of Metrology & Quality Inspection

(FCC Registered Test Site Number: 274801) on Bldg. Metrology & Quality Inspection, Longzhu Road, Nanshan, Shenzhen, Guangdong, China

The Test Site is constructed and calibrated to meet the FCC requirements.

### Test Engineer:

Eric Li



Applicant:Blueone Technology Co., Ltd.  
Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China

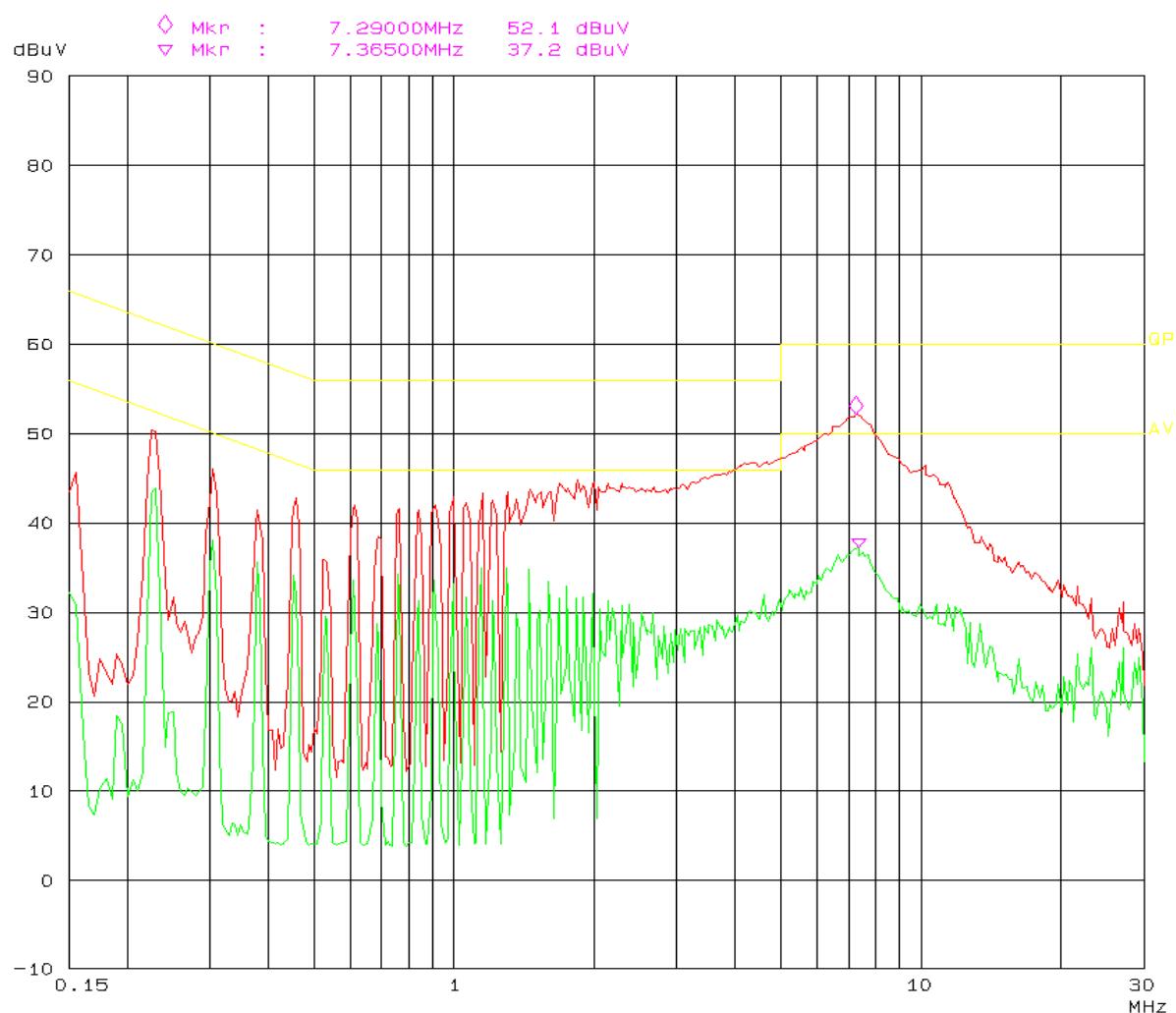
Line Conducted Emissions				FCC Part 15.207	
Frequency (MHz)	Amplitude (dB $\mu$ V)	Detector (QP/AV)	Conductor (Line/Neutral)	Limit (dB $\mu$ V)	Margin (dB)
7.2900	52.10	QP	Line	60.00	7.90
0.6150	37.70	AV	Neutral	46.00	8.30
0.2300	44.00	AV	Line	52.45	8.45
0.3800	39.80	AV	Neutral	48.28	8.48
0.4550	37.70	AV	Neutral	46.78	9.08
7.2700	50.50	QP	Neutral	60.00	9.50
0.3050	40.30	AV	Neutral	50.11	9.81
0.4600	45.90	QP	Neutral	56.69	10.79
0.3050	49.30	QP	Neutral	60.11	10.81
0.3800	47.20	QP	Neutral	58.28	11.08
1.1450	34.90	AV	Line	46.00	11.10
1.4450	34.80	AV	Line	46.00	11.20
0.2250	51.20	QP	Neutral	62.63	11.43
0.2250	41.40	AV	Neutral	52.63	11.23
0.3050	38.10	AV	Line	50.11	12.01
0.2300	50.30	QP	Line	62.45	12.15
1.4550	43.80	QP	Line	56.00	12.20
0.6150	33.70	AV	Line	46.00	12.30
0.6150	43.40	QP	Neutral	56.00	12.60
1.1500	43.20	QP	Line	56.00	12.80
7.3650	37.20	AV	Line	50.00	12.80
7.2050	36.60	AV	Neutral	50.00	13.40
0.6150	42.00	QP	Line	56.00	14.00
0.3050	46.10	QP	Line	60.11	14.01

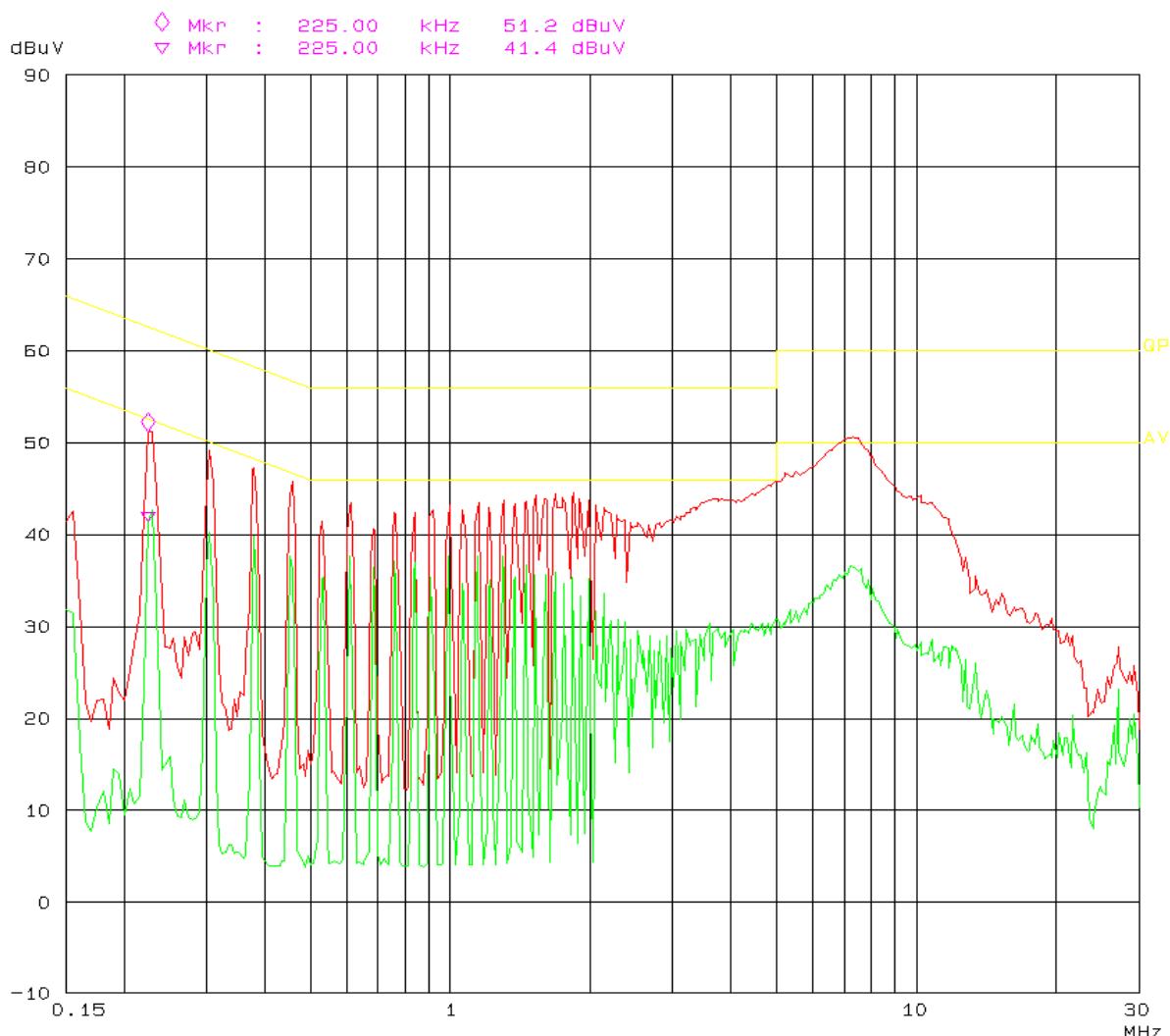
### 7.8. Plot(s) of Test Data

Applicant:Blueone Technology Co., Ltd.

Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China

Plot(s) of Test Data is presented hereinafter as reference.





## 8. RADIATED EMISSION TEST

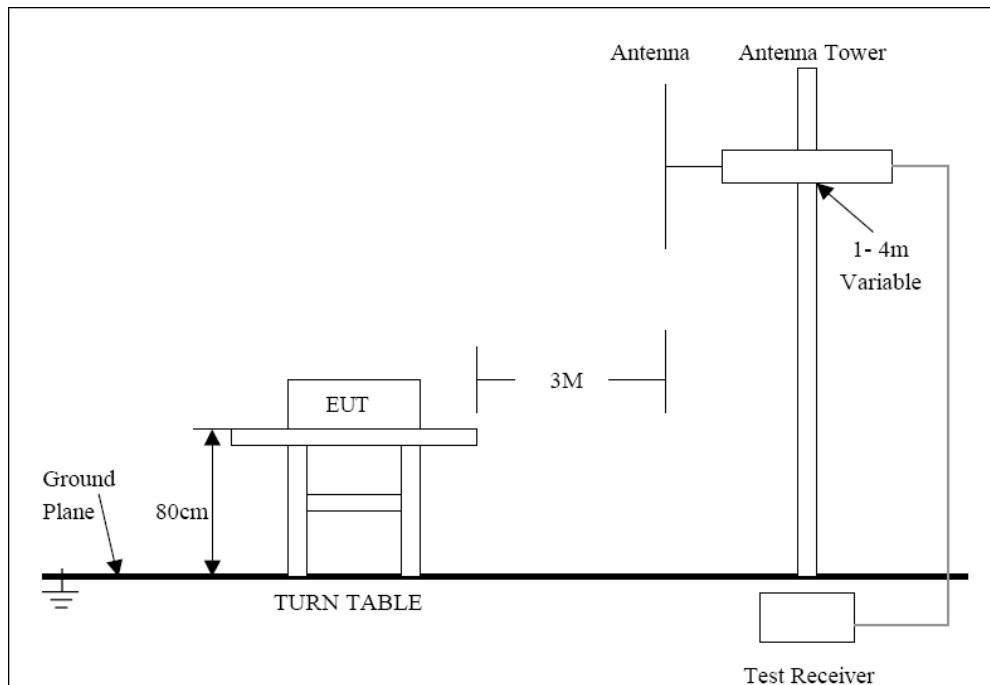
### 8.1. Test Equipment

Please refer to section 4 this report.

### 8.2. Test Procedure

1. The EUT was tested according C63.4-2009. The radiated test was performed at FCC Registration laboratory .
2. The EUT, peripherals were put on the turntable which table size od 1m×1.5m,table high 0.8m. All set up is according tl ANSI C63.4-2009.
3. The frequency spectrum from 30MHZ to 1 GHZ was investigated. All readings from 30MHZ to 1 GHZ are quasi-peak values with a resolution bandwidth of 120 KHZ. All readings are above 1GHZ ,prak values with a resolution bandwidth of 1 MHZ. Measurements were made at 3 merers.
4. The antenna high is varied from 1m to 4m high to find the maximum emission for each frequency.
5. Maximizing procedure was performed on the six(6)highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 Db of specification limit), and are distinguished with a “QP” in the data table.
6. The antenna polarization: Vertical polarization and Horizontal polarization.

### 8.3. Radiated Test Setup



For the accrual test configuration, please refer to the related items-photos of Testing.

#### 8.4. Configuration of the EUT

Same as section 5.4 of this report

#### 8.5. EUT Operating Condition

Same as section 5.5 of this report.

#### 8.6. Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

##### A . FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Frequency (MHZ)	Distance (m)	Field Strength (dBuV/m)
30-88	3	40.0
88-*216	3	43.5
216-960	3	46.0
ABOVE 960	3	54.0

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak

Fundamental Frequency (MHZ)	Field as strength of Fundamental(3m)			Field as strength of Harmonics(3m)		
	mV/m	dBuV/m	uV/m	dBuV/m		
902~928	50	94(Average)	114(Peak)	500	54(Average)	74(Peak)
2400~2483.5	50	94(Average)	114(Peak)	500	54(Average)	74(Peak)

detector function, corresponding to 20dB above the maximum permitted average limit.

##### B.Frequencies in restricted band are complied to limit on Paragraph 15.209.

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

(2) In the Above Table, the tighter limit applies at the band edges.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

## 8.7. Radiated Emission Test Result

### Test Facility -

The test site used to collect the data is located on the address of Shenzhen Academy of Metrology & Quality Inspection

(FCC Registered Test Site Number: 274801) on Bldg. Metrology & Quality Inspection, Longzhu Road, Nanshan, Shenzhen, Guangdong, China

The Test Site is constructed and calibrated to meet the FCC requirements.

### Test Engineer:

Eric Li



Applicant:Blueone Technology Co., Ltd.  
Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China

### A.Fundamental Radiated Emission Data

Product:	Bluetooth marketing device	Test mode:	CH Low ~ CH High
Test Item:	Fundamental Radiated Emission Data	Temperature:	25
Test Voltage:	AC 230V By Adapter	Humidity:	56%RH
Test Result:	PASS		

#### CH Low

Freq. (MHz)	Emission(dBuV/m) Peak Detector/ AV	HORIZ/ VERT	Limits(dBuV/m) Peak/AVERAGE	Margin (Db)
2402.00	90.1/ 72.0	HORIZ	114/94	23.9/22.0
2402.00	93.1 / 74.7	VERT	114/94	20.9/19.3

#### CH Middle

Freq. (MHz)	Emission(dBuV/m) Peak Detector/ AV	HORIZ/ VERT	Limits(dBuV/m) Peak/AVERAGE	Margin (Db)
2441.00	90.3/71.7	HORIZ	114/94	23.7/22.3
2441.00	92.2/73.0	VERT	114/94	21.8/21.0

#### CH High

Freq. (MHz)	Emission(dBuV/m) Peak Detector/ AV	HORIZ/ VERT	Limits(dBuV/m) Peak/AVERAGE	Margin (Db)
2480.0	90.8/74.1	HORIZ	114/94	23.2/19.9
2480.0	93.0/75.7	VERT	114/94	21.0/18.3

### B.Harmonics Radiated Emission Data

Product:	Bluetooth marketing device	Test mode:	CH Low ~ CH High
Test Item:	Radiated Emission Data	Temperature:	25
Test Voltage:	AC 230V By Adapter	Humidity:	56%RH
Test Result:	PASS		

Applicant:Blueone Technology Co., Ltd.  
Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China

## CH Low

Freq. (MHz)	Emission(dBuV/m) Peak Detector	HORIZ/ VERT	Limits(dBuV/m) Peak/AVERAGE	Margin (Db)
4804.12	-	H/V	74.0/54.0	-
7206.18	-	H/V	74.0/54.0	-
9608.24	-	H/V	74.0/54.0	-
12010.3	-	H/V	74.0/54.0	-
14412.36	-	H/V	74.0/54.0	-
16814.42	-	H/V	74.0/54.0	-
19216.48	-	H/V	74.0/54.0	-
21618.54	-	H/V	74.0/54.0	-
24020.6	-	H/V	74.0/54.0	-

## CH Midde

Freq. (MHz)	Emission(dBuV/m) Peak Detector	HORIZ/ VERT	Limits(dBuV/m) Peak/ACERAGE	Margin (Db)
4882.18	-	H/V	74.0/54.0	-
7323.27	-	H/V	74.0/54.0	-
9764.36	-	H/V	74.0/54.0	-
12205.45	-	H/V	74.0/54.0	-
14646.54	-	H/V	74.0/54.0	-
17087.63	-	H/V	74.0/54.0	-
19528.72	-	H/V	74.0/54.0	-
21969.81	-	H/V	74.0/54.0	-
24410.9	-	H/V	74.0/54.0	-

## CH High

Freq. (MHz)	Emission(dBuV/m) Peak Detector	HORIZ/ VERT	Limits(dBuV/m) Peak/ACERAGE	Margin (Db)
4960.26	-	H/V	74.0/54.0	-
7440.39	-	H/V	74.0/54.0	-
9920.52	-	H/V	74.0/54.0	-
12400.65	-	H/V	74.0/54.0	-
14880.78	-	H/V	74.0/54.0	-
17360.91	-	H/V	74.0/54.0	-
19841.04	-	H/V	74.0/54.0	-
22321.17	-	H/V	74.0/54.0	-
24801.3	-	H/V	74.0/54.0	-

Note: - means the emission is too low at least 20dB to the limit.

### C. General Radiated Emission Data

Product:	Bluetooth marketing device	Test mode:	-
Test Item:	Radiated Emission Data	Temperature:	25
Test Voltage:	AC 230V By Adapter	Humidity:	56%RH
Test Result:	PASS		

Applicant:Blueone Technology Co., Ltd.  
Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China

Freq. (MHz)	Emission(dBuV/m) Peak Detector	HORIZ/ VERT	Limits(dBuV/m) Peak/ACERAGE	Margin (Db)
116.7	28.0	HORIZ	43.5	15.5
116.7	30.2	VERT	43.5	13.3
193.2	25.5	HORIZ	43.5	18.0
193.2	27.9	VERT	43.5	15.6
376.8	29.4	HORIZ	46	16.6
376.8	32.1	VERT	46	13.9

## 9. BAND EDGE

### 9.1. Test Equipment

Please refer to Section 4 this report.

### 9.2. Test Procedure

1. The EUT was tested according C63.4-2009. The radiated test was performed at FCC Registration laboratory .
2. The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.
3. As the radiation test ,set the Lowest and Highest Transmitting Channel,observed the outside band of 2400MHz to 2438.5MHz,than mark the higher-level emission for comparing with the FCC rules.

### 9.3. Configuration of The EUT

Same as section 5.4 of this report

### 9.4. EUT Operating Condition

Same as section 5.5 of this report

### 9.5. Band Edge FCC 15.249(d) Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50dB below that in the 100kHz bandwidth within the band that contains the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 9.6. Band Edge Test Result

Product:	Bluetooth marketing device	Test mode:	CH Low,CH High
Test Item:	-	Temperature:	25
Test Voltage:	AC 230V By Adapter	Humidity:	56%RH
Test Result:		PASS	

## Test Facility -

The test site used to collect the data is located on the address of Shenzhen Academy of Metrology & Quality Inspection

(FCC Registered Test Site Number: 274801) on

Bldg. Metrology & Quality Inspection, Longzhu Road, Nanshan, Shenzhen, Guangdong, China

The Test Site is constructed and calibrated to meet the FCC requirements.

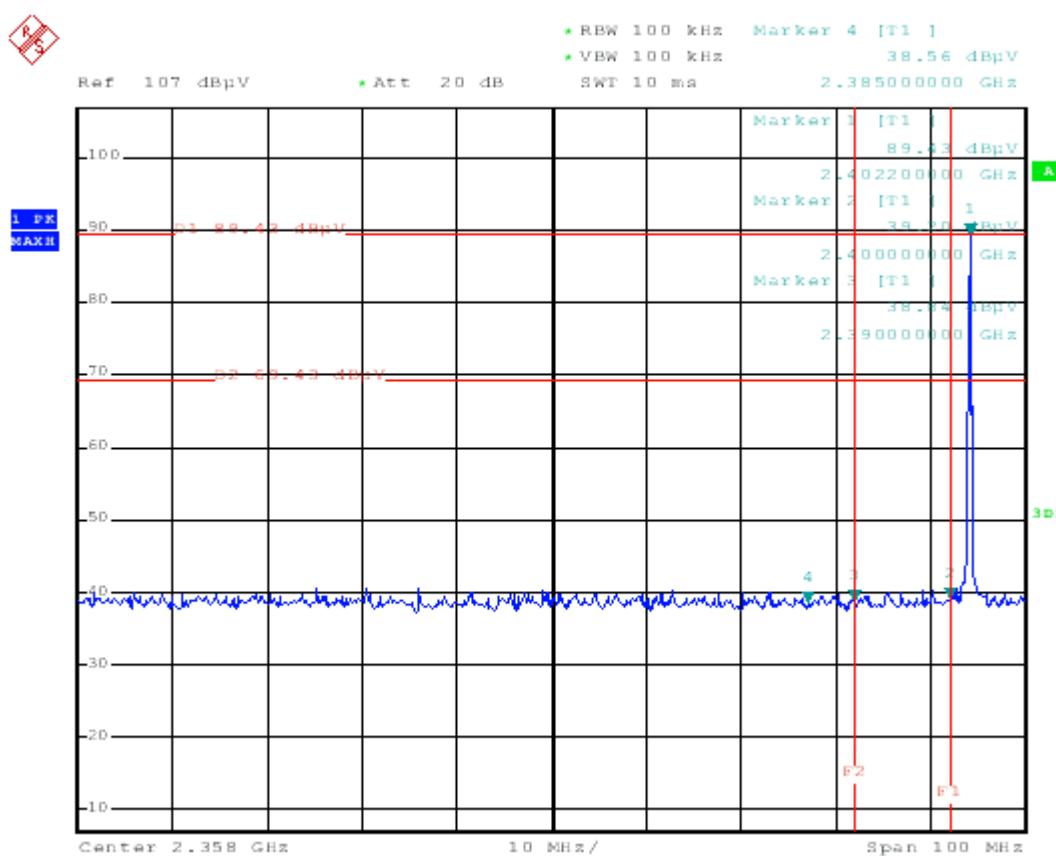
Test Engineer:

Eric Li

*Eric Li*

Applicant:Blueone Technology Co., Ltd.

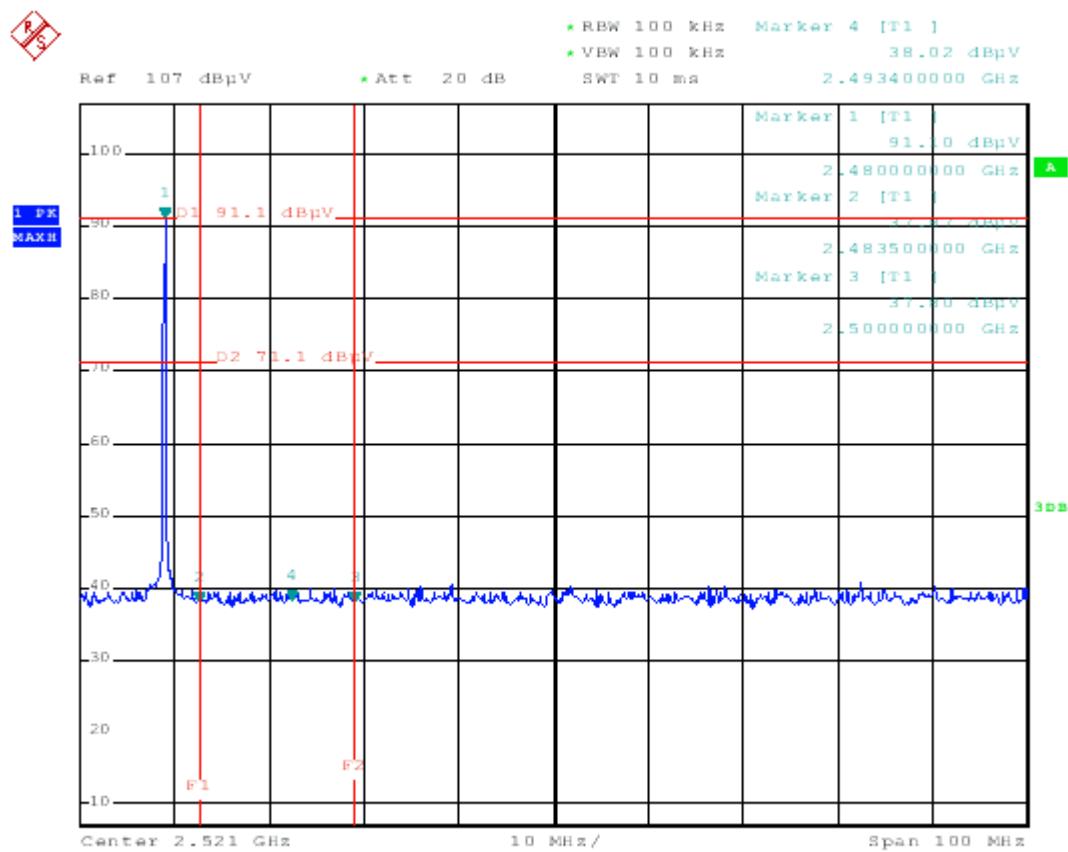
Room 418, 4/F. 404 Bldg. Shangbu Industry Zone, Futian, Shenzhen China



## Emission in the Restricted Bands

Frequency [MHz]	dBc [dB]	AV [dBµV/m]	Polarity (H/V)	AV limit [dBµV/m]
2310	-	<b>33.8</b>	V	54
2385	-	<b>34.9</b>	V	54
2390	-	<b>35.0</b>	V	54

The above field strength levels were measured in Vertical polarity which is the worst case.



#### Emission in the Restricted Bands

Frequency [MHz]	dBc [dB]	AV [dB $\mu$ V/m]	Polarity (H/V)	AV limit [dB $\mu$ V/m]
2483.5	-	<b>32.40</b>	V	54
2493.4	-	<b>34.41</b>	V	54
2500	-	<b>33.42</b>	V	54

The above field strength levels were measured in Vertical polarity which is the worst case.