

# FCC RF TEST REPORT

APPLICANT

Homewerks Worldwide, LLC

PRODUCT NAME

Bluetooth Bath Fan

**MODEL NAME** 

7130-06-BT

TRADE NAME

Home Net Werks

**BRAND NAME** 

Home Net Werks

FCC ID

SYJ7130-06-BT

STANDARD(S)

47 CFR Part 15 Subpart C

**ISSUE DATE** 

2016-12-27

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

Certification

Syst

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**MORLAB GROUP** 

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Change History				
Issue	Date	Reason for change		
1.0	2016-12-27	First edition		
1110	, C	STURE MOST MO. WE STURE MOST. MO.		



# TEST REPORT DECLARATION

Applicant	Homewerks Worldwide, LLC
Applicant Address	55 Albrecht Drive., Lake Bluff, IL 60044 USA
Manufacturer	FOSHAN HUIKAIDA TECHNOLOGY LIMITED
Manufacturer Address	4/F 4 Building No.1 Huabao Nan Road Chancheng District Foshan City Guangdong Province, China
Product Name	Bluetooth Bath Fan
Model Name	7130-06-BT
Brand Name	Home Net Werks
HW Version	N.A
SW Version	N.A
Test Standards	47 CFR Part 15 Subpart C
Test Date	2016-02-20 to 2016-03-09
Test Result	PASS

Tested by	200	Li Jing zone	
4	100	Li Jingzong	

Reviewed by : Qiu Xiaojun

Approved by:

Peng Huarui



# 1. TECHNICAL INFORMATION

Note: Provide by applicant.

# 1.1 Applicant Information

Company:	Homewerks Worldwide, LLC
Address:	55 Albrecht Drive., Lake Bluff, IL 60044 USA

1.2 Equipment under Test (EUT) Description

TIE Equipment	ander rest (EST) Beschiption
Brand Name:	Home Net Werks
Trade Name:	Home Net Werks
Model Name:	7130-06-BT
Frequency Range:	The frequency used is 433.92MHz
Modulation Type:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	0.93dBi

#### 1.2.1 Identification of all used EUTs

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

<b>EUT Identity</b>	Hardware Version	Software Version
A01	N.A	N.A

# 1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1 AE	47 CFR Part 15(10-1-15 Edition)	Radio Frequency Devices



Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.203	Antenna Requirement	N.A
2	15.231(a)(1)	Release Time measurement	PASS
3	15.231(c)	20dB Bandwidth	PASS
4	15.207	Conducted Emission	PASS
5	15.231(b)&15.209(a)	Radiated Emission	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.

# 1.3.1 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



# 2. 47 CFR PART 15C REQUIREMENTS

# 2.1 Antenna requirement

### 2.1.1 Applicable Standard

According to FCC 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.

#### 2.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

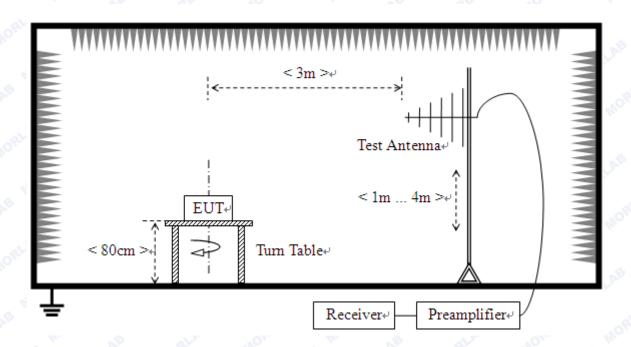
# 2.2 Release Time measurement

# 2.2.1 Requirement

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

## 2.2.2 Test Description

#### A. Test Setup:





# B. Test procedure:

Set SPA Center Frequency=Fundamental frequency, RBW=100KHz, VBW=300KHz, Span=0Hz Sweep time=10s.

Set EUT as normal operation and press Transmitter button.

Set SPA View. Delta Mark time.

#### C. Equipments List:

Please reference ANNEX A(1.5).

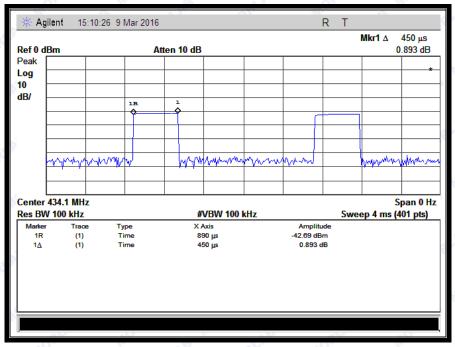
#### 2.2.3 Test Result

The frequency(433.92MHz) is selected to perform testing to verify the radiated release time measurement of the Module.

#### A. Test Verdict:

Frequency (MHz)	Release Time	Limit	Verdict
433.92	0.89ms	5S	PASS

#### B. Test Plots:



(Plot A)



#### 2.3 20dB Bandwidth

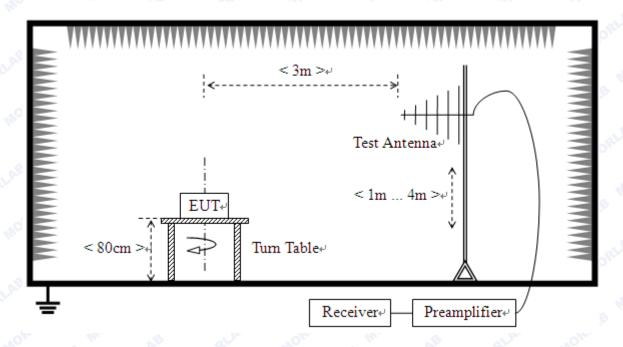
## 2.3.1 Requirement

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

As the center frequency for the device operating is 433.92MHz, thus, the 20dB bandwidth limit is 787.5KHz.

#### 2.3.2 Test Description

#### A. Test Set:



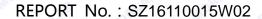
#### B. Test procedure:

Set spectrum analyzer's Center Frequency =Fundamental frequency, RBW,VBW and span to applicable value with Peak in Max Hold, A PEAK output reading and 20db Bandwidth function in spectrum analyzer were taken.

#### C. Equipments List:

Please reference ANNEX A(1.5).







#### 2.3.3 Test Result

#### A. Test Verdict:

Frequency (MHz)	20dB Bandwidth (MHz)	Limits(kHz)	Result
433.92	0.465	1085	PASS

#### **B.** Test Plots:



20dB Bandwidth



#### 2.4 Conducted Emission

# 2.4.1 Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a  $50\mu\text{H}/50\Omega$  line impedance stabilization network (LISN).

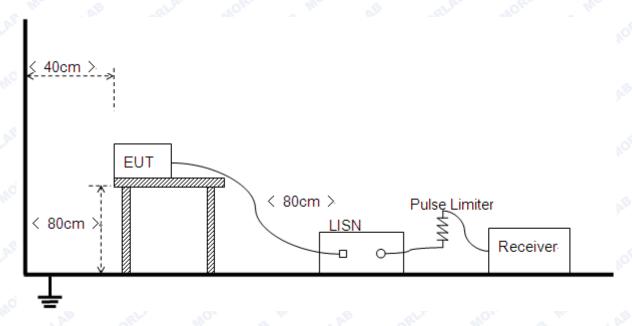
Fraguenov rango (MUz)	Conducted Limit (dBµV)					
Frequency range (MHz)	Quai-peak	Average				
0.15 - 0.50	66 to 56	56 to 46				
0.50 - 5	56	46				
5 - 30	60	50				

#### NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz

# 2.4.2 Test Description

#### A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

#### **B.** Equipments List:

Please reference ANNEX A(1.5).



#### 2.4.3 Test Result

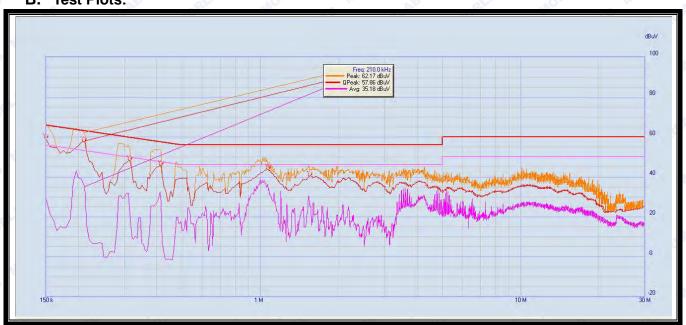
The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

#### A. Test setup:

The EUT configuration of the emission tests is EUT + Link.

**Note:** The test voltage is AC 120V/60Hz.

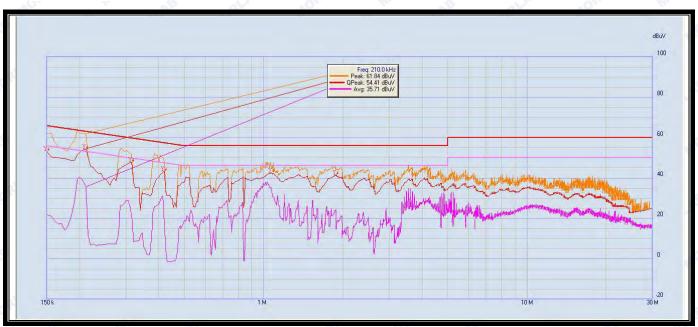
#### B. Test Plots:



(Plot A: L Phase)

NO.	Fre.	Emission Lo	evel (dBµV)	Limit (c	βμV)	Power-	Verdict
110.	(MHz)	Quai-peak	Average	Quai-peak	Average	line	vordiot
101	0.195	43.09	29.10	64.71	54.71	OPLA	PASS
2,3	0.97	35.31	35.18	56	46	B	PASS
3	1.00	38.94	21.40	56	46	Lina	PASS
4	3.535	33.74	27.19	56	46	Line	PASS
5	3.61	24.77	33.17	56	46	OR	PASS
6	3.655	33.67	26.11	56	46	ORLA	PASS





(Plot B: N Phase)

NO.	Fre.	Emission Le	evel (dBµV)	Limit (c	lΒμV)	Power-	Verdict
110.	(MHz)	Quai-peak	Average	Quai-peak	Average	line	vordiot
<u>№</u> 1	0.15	53.37	21.71	66	56	HIL	PASS
2	0.21	54.41	35.71	64.29	54.29	PLAB	PASS
3	0.315	47.98	21.59	61.29	51.29	Lina	PASS
4	0.42	43.36	17.43	58.29	48.29	Line	PASS
5	1.07	42.53	32.95	56	46	,B	PASS
6	1.875	41.44	24.16	56	46	Me	PASS



# 2.5 Radiated Emission

# 2.5.1 Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3 140 100
88 - 216	150	3
216 - 960	200	3 1047
Above 960	500	3 LAD ORL

#### FCC Part 15.231(b)

Fundamental fraguency (MHz)	Field strength of fundamental	Field strength of spurious
Fundamental frequency(MHz)	(microvolts/meter)	emission(microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750	125 to 375
174-260	3750	375
260-47	3750 to 12500	375 to 1250
Above 470	12500	1250

<sup>&</sup>lt;sup>1</sup> Linear interpolations.

#### Note

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

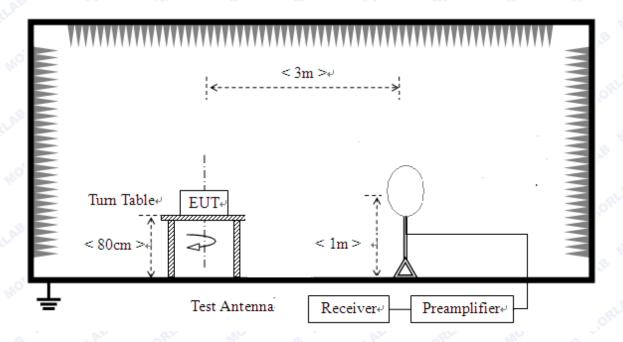
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)



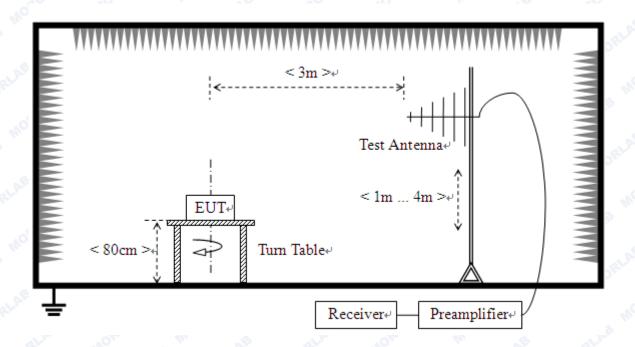
# 2.5.2 Test Description

# A. Test Setup:

1) For radiated emissions from 9kHz to 30MHz

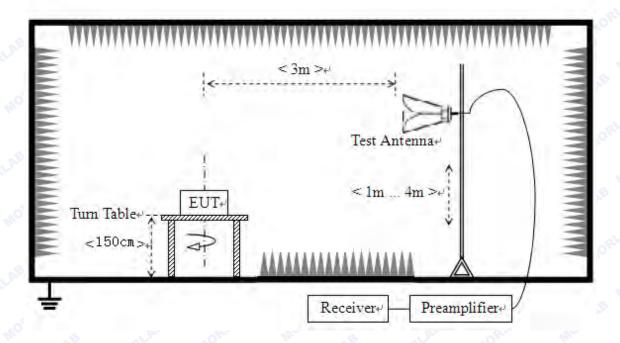


2) For radiated emissions from 30MHz to1GHz





# 3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz. Test site have a minimum area of the ground plane covered with RF absorbing material as specified in Figure 6 of ANSI C63.4: 2014.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of



the site as factors are calculated to correct the reading.

#### For the Test Antenna:

- (a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

#### B. Equipments List:

Please reference ANNEX A(1.5).

#### 2.5.3 Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

 $E [dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$ 

A<sub>T</sub>: Total correction Factor except Antenna

U<sub>R</sub>: Receiver Reading

G<sub>preamp</sub>: Preamplifier Gain

A<sub>Factor</sub>: Antenna Factor at 3m

Final Emission\_PK=E(peak)

Final Emission\_AV=E+AV factor.

During the test, the total correction Factor A<sub>T</sub> and A<sub>Factor</sub> were built in test software.

**Note:** All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.



The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Frequency (MHz)	Final Emission_PK (dBuV/m)	AV factor(dB)	Final Emission_AV (dBuV/m)	Limit-AV (dBuV/m)	Antenna	Verdict
433.92.268	36.48	-6.38	30.10	80.83	Horizontal	N.A
867.672	51.69	-6.38	45.31	60.63	Horizontal	PASS
1302.201	57.55	-6.38	51.17	60.63	Horizontal	PASS
1736.295	54.13	-6.38	47.75	60.63	Horizontal	PASS
2170.388	52.36	-6.38	45.98	60.63	Horizontal	PASS
2604.073	53.22	-6.38	46.84	60.63	Horizontal	PASS
433.92.268	30.77	-6.38	24.39	80.83	Vertical	N.A
867.672	43.05	-6.38	36.67	60.63	Vertical	PASS
1302.201	58.41	-6.38	52.03	60.63	Vertical	PASS
1736.295	53.06	-6.38	46.68	60.63	Vertical	PASS
2170.388	54.00	-6.38	47.62	60.63	Vertical	PASS
2604.073	56.70	-6.38	50.32	60.63	Vertical	PASS

Note 1: The above table only shows the frequency which peak emission exceed the average limit. The peak data of other frequencies are all below the average limit(please refer to the test graph in following pages), so the average data of other frequencies are deems to fulfill the average limits and not reported.

Note 2: The emission below 30MHz are not reported for they are much lower than the limits

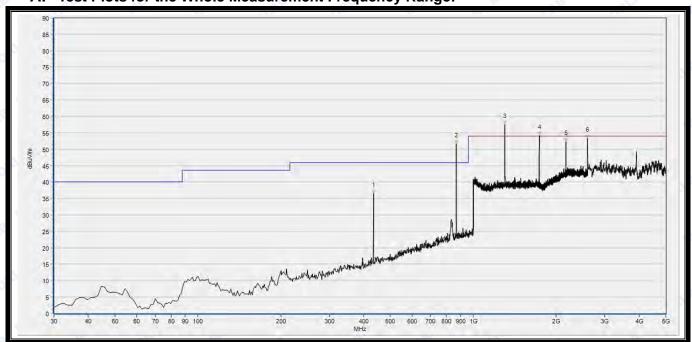
Note 3: The duty cycle is simply the on-time divided by the period:

The duration of one cycle	38	1.15ms
Effective period of the cycle	: a)	0.55 ms
Duty cycle	:	0.48

Therefore, the average factor is found by 20log(Duty cycle)=-6.38



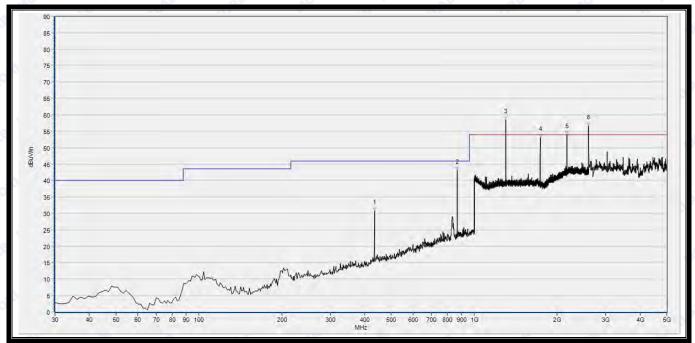
# A. Test Plots for the Whole Measurement Frequency Range:



(Antenna Horizontal, 30MHz to 5GHz)

	Os A N			40.	0.	A 37	V	N, S	
	Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
	434.268	N.A	36.48	N.A	N.A	46.00	N.A	Horizontal	PASS
200	867.672	N.A	36.37	N.A	N.A	46.00	N.A	Horizontal	PASS
	1302.201	57.55	N.A	51.17	74.0	N.A	54.0	Horizontal	PASS
	1736.295	54.13	N.A	47.75	74.0	N.A	54.0	Horizontal	PASS
1	2170.388	52.36	N.A	45.98	74.0	N.A	54.0	Horizontal	PASS
	2604.073	53.22	N.A	46.84	74.0	N.A	54.0	Horizontal	PASS





(Antenna Vertical, 30MHz to 5GHz)

Ch. A. V.			(1)					
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
434.268	N.A	30.77	N.A	N.A	46.00	N.A	Horizontal	PASS
867.672	N.A	43.05	N.A	N.A	46.00	N.A	Horizontal	PASS
1302.201	58.41	N.A	52.03	74.0	N.A	54.0	Horizontal	PASS
1736.295	53.06	N.A	46.68	74.0	N.A	54.0	Horizontal	PASS
2170.388	54.00	N.A	47.62	74.0	N.A	54.0	Horizontal	PASS
2604.073	56.70	N.A	50.32	74.0	N.A	54.0	Horizontal	PASS



# ANNEX A GENERAL INFORMATION

# 1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

# 1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

#### 1.3 Facilities and Accreditations

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2009, ANSI C63.4 2009 and CISPR Publication 22; the FCC registration number is 695796.

#### 1.4 Maximum measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Measurements	Frequency	Uncertainty
Conducted emissions	9KHz~30MHz	2.44dB
3 RIAD MORLE	9KHz~30MHz	2.44dB
	30MHz~200MHz	2.93dB
Radiated emissions	200MHz~1000MHz	2.95dB
	1GHz~18GHz	2.26dB
	18GHz~40GHz	1.94dB



This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

# 1.5 Test Equipments Utilized

# 1.5.1 Conducted Test Equipments

Conducted Test Equipment							
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal. Due	
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2015.06.02	2016.06.01	
2	USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2015.06.02	2016.06.01	
3	EXA Signal Analzyer	MY53470836	N9010A	Agilent	2015.12.07	2016.12.06	
4	RF cable	CB01	RF01	Morlab	N/A	N/A	
5	Attenuator	(n.a.)	10dB	Resnet	N/A	N/A	
6	SMA connector Note	CN01	RF03	HUBER-SUHNER	N/A	N/A	

**Note:** The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.

# 1.5.2 Radiated Test Equipments

Rad	Radiated Test Equipments							
No	<b>Equipment Name</b>	Serial No.	Туре	Manufacturer	Cal. Date	Cal.Due Date		
1 📢	System Simulator	GB45360846	8960-E5515C	Agilent	2015.06.02	2016.06.01		
2	Receiver	MY54130016	N9038A	Agilent	2015.06.02	2016.06.01		
3	Test Antenna - Bi-Log	N/A	VULB9163	Schwarzbeck	2015.07.05	2016.07.04		
4	Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2015.07.05	2016.07.04		
5	Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2015.07.05	2016.07.04		
6	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2015.07.05	2016.07.04		
7 1	Coaxial cable(N male)	CB02	EMC02	Morlab	N/A	N/A		
8	Coaxial cable(N male)	CB03	EMC03	Morlab	N/A	N/A		
9	1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde&Schwarz	2015.07.05	2016.07.04		
10	18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde&Schwarz	2015.07.05	2016.07.04		



# 1.5.3 Climate Chamber

Clima	nte Chamber	ORLA	More	-0 W	J.B ORLA	MOLE IN
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date
101	Climate Chamber	2004012	HL4003T	Yinhe	2015.03.25	2016.03.24

#### 1.5.4 Vibration Table

Vibra	ation Table	BORLA	Moles	E ME	ORLA!	MOKE IN
No.	<b>Equipment Name</b>	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date
1	Vibration Table	N/A	ACT2000- S015L	СМІ-СОМ	2015.03.25	2016.03.24

#### 1.5.5 Anechoic Chamber

Ane	echoic Chamber	Z MC	AB SE	LAL	MC. P.	B RLAD
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	Changning	2015.03.25	2016.03.24

# 1.5.6 Auxiliary Test Equipment

Auxil	iary Test Equipment	W.	O.B	-RLAP MORL	MO.	E GLAB
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date
1	Computer	N.A	PU500C	Asus	N.A	N.A

\*\*\*\* END OF REPORT \*\*\*\*

