

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

TOP WAY INTELLIGENT SCIENCE & TECHNOLOGY CO., LTD.

Wireless Video Doorbell

WF100; WF215; WF1370; WF1380; WF206; WF201

FCC ID: 2AK8LWF100

Prepared for : TOP WAY INTELLIGENT SCIENCE & TECHNOLOGY
CO., LTD.

North Qianting, Qingrong Rd, Rongqiao Industrial Area,
Fuqing, Fujian, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

Tel: (0755) 26639496

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Date of Report : May.05, 2017

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TEST REPORT CERTIFICATION

Applicant : TOP WAY INTELLIGENT SCIENCE & TECHNOLOGY CO., LTD.

Manufacturer : TOP WAY INTELLIGENT SCIENCE & TECHNOLOGY CO., LTD.

Product : Wireless Video Doorbell

FCC ID : 2AK8LWF100

(A) Model No. : WF100; WF215; WF1370; WF1380; WF206; WF201

(B) Power Supply : DC 12V

(C) Test Voltage : DC 12V From Adapter Input AC 120V/60Hz

Tested for comply with:

FCC CFR 47 Part 15 Subpart C

Test procedure used:

ANSI C63.10: 2013

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. 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 AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Mar.15~Apr.14, 2017 Report of date: May.05, 2017Prepared by : Monica Liu (for) Reviewed by : 2/Jan

Cindy Zhu / Assistant

Sunny Lu / Deputy Manager

Approved & Authorized Signer :



信華科技(深圳)有限公司

Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: David Jin

David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15C: 15.231 ANSI C63.10: 2013	PASS
Radiated Emission Test	FCC Part 15C: 15.231 ANSI C63.10: 2013	PASS
Stop Transmitting Time Test	FCC Part 15C: 15.231	PASS
20 dB Bandwidth Test	FCC Part 15C: 15.231	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

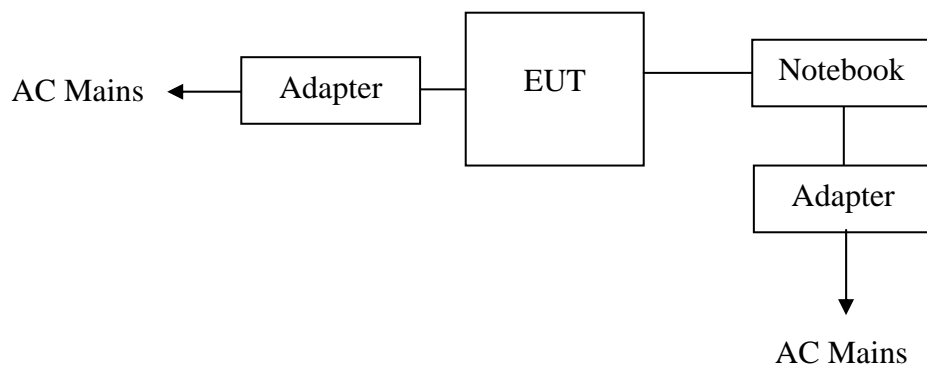
2.1. Description of Device (EUT)

Product	: Wireless Video Doorbell
Model No.	: WF100; WF215; WF1370; WF1380; WF206; WF201 The mainly different is that, WF215, WF1370 WF1380, WF206, WF201 use separated module to assemble, however, WF100 use a single module(Camera module and Main-board is a unibody), besides, their size is difference.
Test Model	: WF100
FCC ID	: 2AK8LWF100
Operation frequency	: 433.92MHz
Applicant	: TOP WAY INTELLIGENT SCIENCE & TECHNOLOGY CO., LTD. North Qianting, Qingrong Rd, Rongqiao Industrial Area, Fuqing, Fujian, China
Manufacturer	: TOP WAY INTELLIGENT SCIENCE & TECHNOLOGY CO., LTD. North Qianting, Qingrong Rd, Rongqiao Industrial Area, Fuqing, Fujian, China
Antenna Type & Gain	: Antenna Type: Dipole Antenna, 0dBi gain;
Power Adapter	: M/N: AMS135-0901000FU Input: 100-240V; 50-60Hz, 0.3A Output: 14V; 600mA DC Cable: Shielded, Undetachable, 1.5m
Date of Test	: Mar.15~Apr.14, 2017
Date of Receipt	: Jan.11, 2017
Sample Type	: Prototype production

2.1. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	acer	ZOW	NVX7C
		Power Adapter: Manufacturer: LITEON, Model: PA-1900-32 Input: 100-240V~, 1.5A, 50/60Hz Output: 19V----4.74A Power Cord: Unshielded, Detachable, 1.8m			

2.2. EUT Configuration and operation conditions for test.



(EUT: Wireless Video Doorbell)

2.3. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Kefeng Road, Science & Technology Park, Nanshan District , Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Jul.12, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Jul.12, 2017
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.07, 2021
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2018

2.4. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.2dB (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	2.8dB(30~200MHz, Polarization: H)
	2.8dB(30~200MHz, Polarization: V)
	3.0dB(200M~1GHz, Polarization: H)
	3.0dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	5.8dB(1~6GHz, Distance: 3m)
	5.8dB(6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6dB
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6
	3%

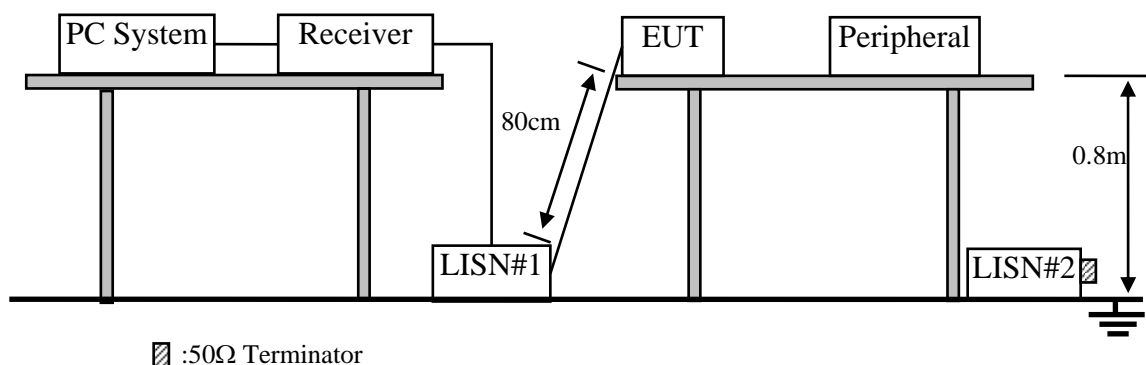
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,16	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.24,16	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.15,16	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.24,16	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	May.05.16	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	May.05.16	1 Year
7.	RF Cable	MIYAZAKI	3D-2W	No.1	Apr.24,16	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6200766906	Apr.23,16	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4.Configuration of EUT on Test

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

3.4.1. Wireless Video Doorbell (EUT)

Model No. : WF100

Serial No. : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5.Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipments.

3.5.3. PC run test software to control EUT work in (433.92MHz) mode.

3.6.Test Procedure

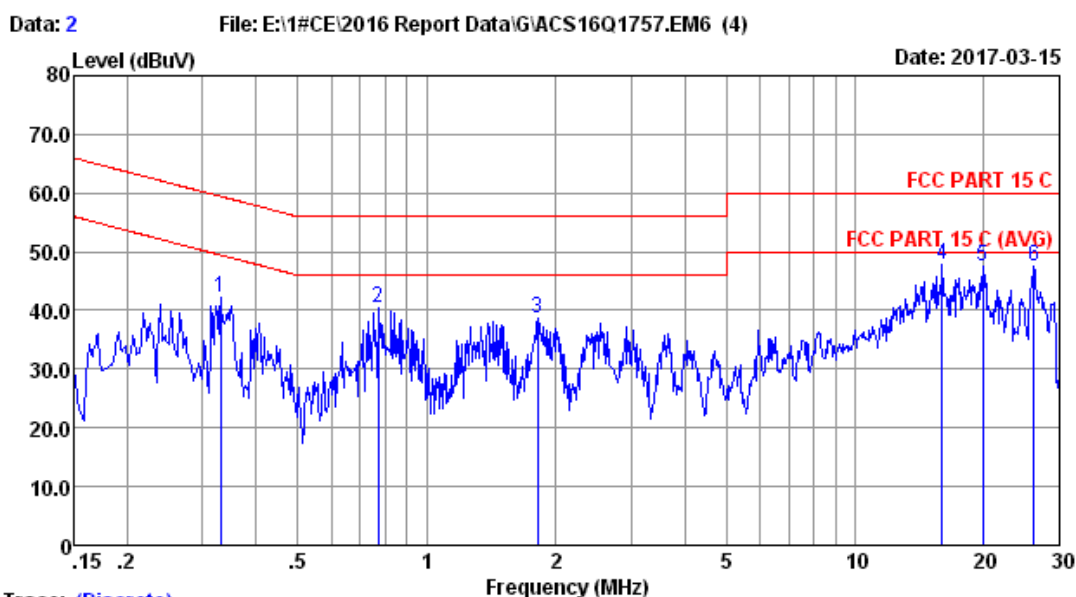
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line 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 C63.10: 2013 on Conducted Emission Test.

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

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

3.7.Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)



Trace: (Discrete)

Site no :1# Conduction

Dis./Lisn :2015 ESH2-Z5 LINE

Limit :FCC PART 15 C

Env./Ins. :25.1°C/48%

EUT :WF100

Power Rating :DC 12V From Adapter Input AC 120V/60Hz

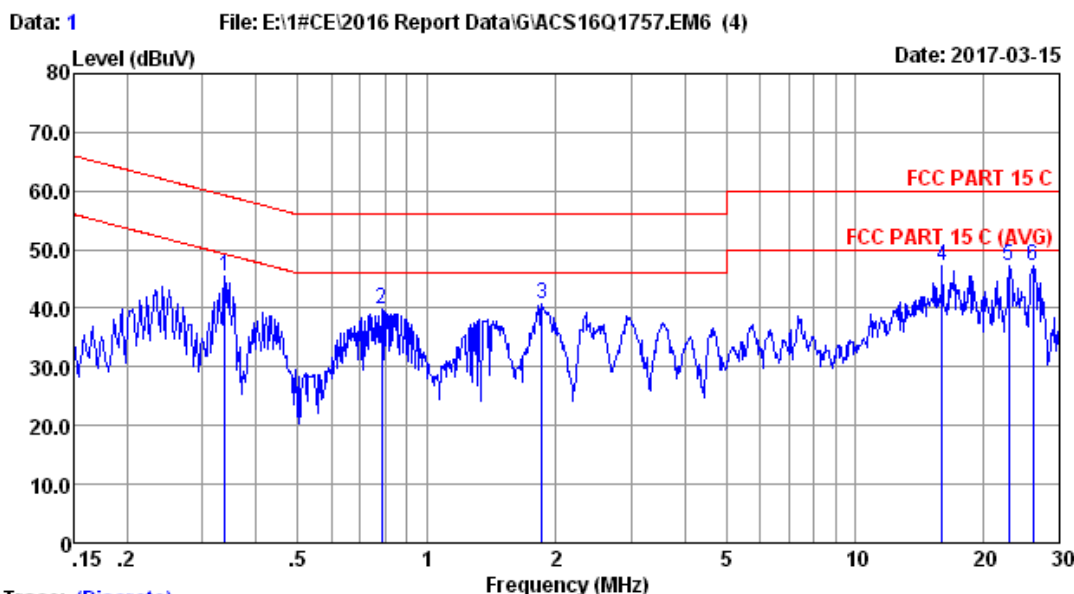
Test Mode :433.92MHz Tx

Engineer :Leo-Li

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.330	0.13	9.94	32.25	42.32	59.44	17.12	QP
2	0.771	0.15	9.95	30.29	40.39	56.00	15.61	QP
3	1.819	0.18	9.97	28.61	38.76	56.00	17.24	QP
4	15.970	0.61	10.10	36.97	47.68	60.00	12.32	QP
5	19.845	0.83	10.14	36.49	47.46	60.00	12.54	QP
6	26.139	0.98	10.20	36.26	47.44	60.00	12.56	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Trace: (Discrete)

Site no :1# Conduction
 Dis./Lisn :2015 ESH2-Z5 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :25.1°C/48% Engineer :Leo-Li
 EUT :WF100
 Power Rating :DC 12V From Adapter Input AC 120V/60Hz
 Test Mode :433.92MHz Tx

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.337	0.13	9.94	35.46	45.53	59.27	13.74	QP
2	0.783	0.15	9.95	29.82	39.92	56.00	16.08	QP
3	1.858	0.19	9.97	30.46	40.62	56.00	15.38	QP
4	15.970	0.82	10.10	36.39	47.31	60.00	12.69	QP
5	22.896	1.08	10.17	35.92	47.17	60.00	12.83	QP
6	26.001	1.12	10.20	35.80	47.12	60.00	12.88	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Mar.28,17	1 Year
2.	Spectrum Analyzer	Agilent	N9010A	MY52220804	Oct.15,16	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.24,16	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.24,16	1 Year
5.	Bi-log Antenna	TESEQ	CBL6112D	35375	Aug.03,16	1 Year
6.	RF Cable	MIYAZAKI	CFD400NL-LW	No.3	Sep.26.16	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.23,16	1 Year
8.	Attenuator	EMCI	EMCI-N-6-06	AT-N0639	Sep.26.16	1 Year
9.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

Note: N/A means Not applicable.

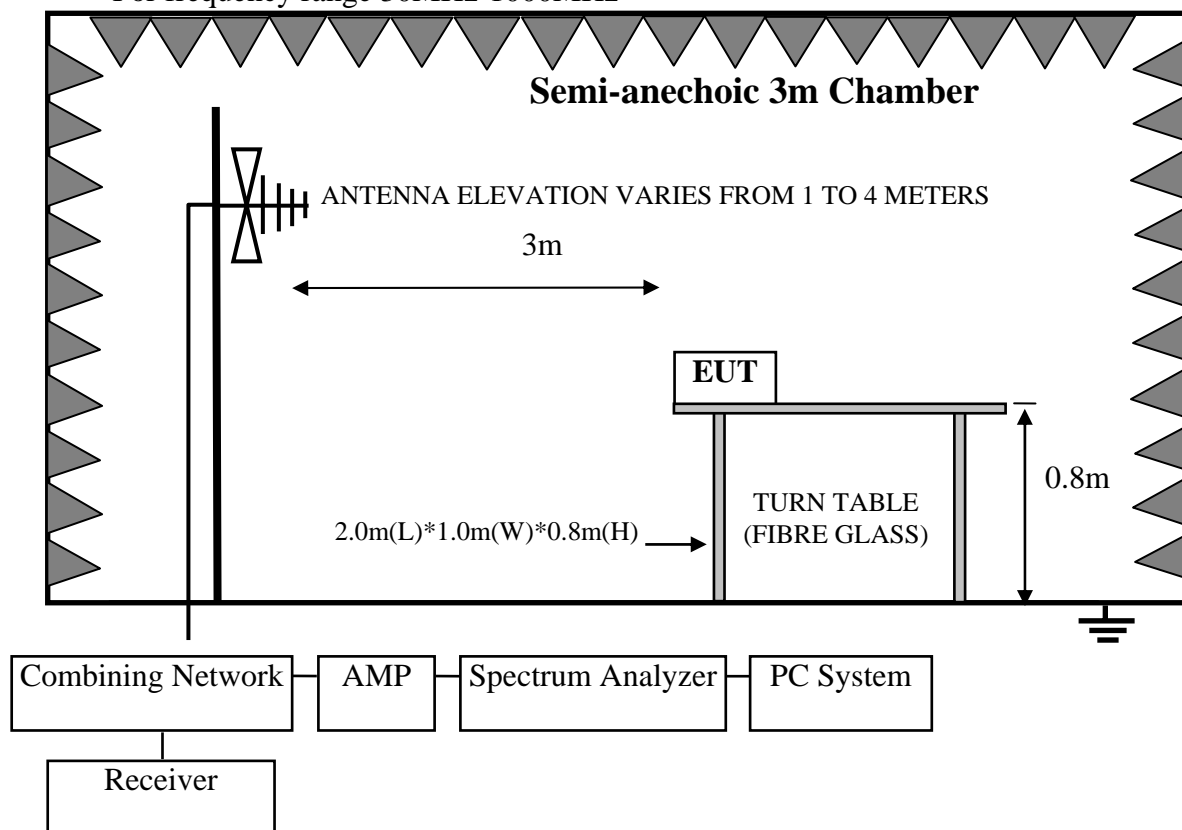
Frequency range: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	May.21,16	1 Year
2.	Spectrum Analyzer	Agilent	N9010A	MY52220804	Oct.15,16	1 Year
3.	Horn Antenna	ETS	3115	9510-4580	Nov.16,16	1 Year
4.	Amplifier	Agilent	83017A	MY53270084	May.17,16	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	505238/6	Apr.24,16	1 Year
6.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Apr.11,16	1 Year
7.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

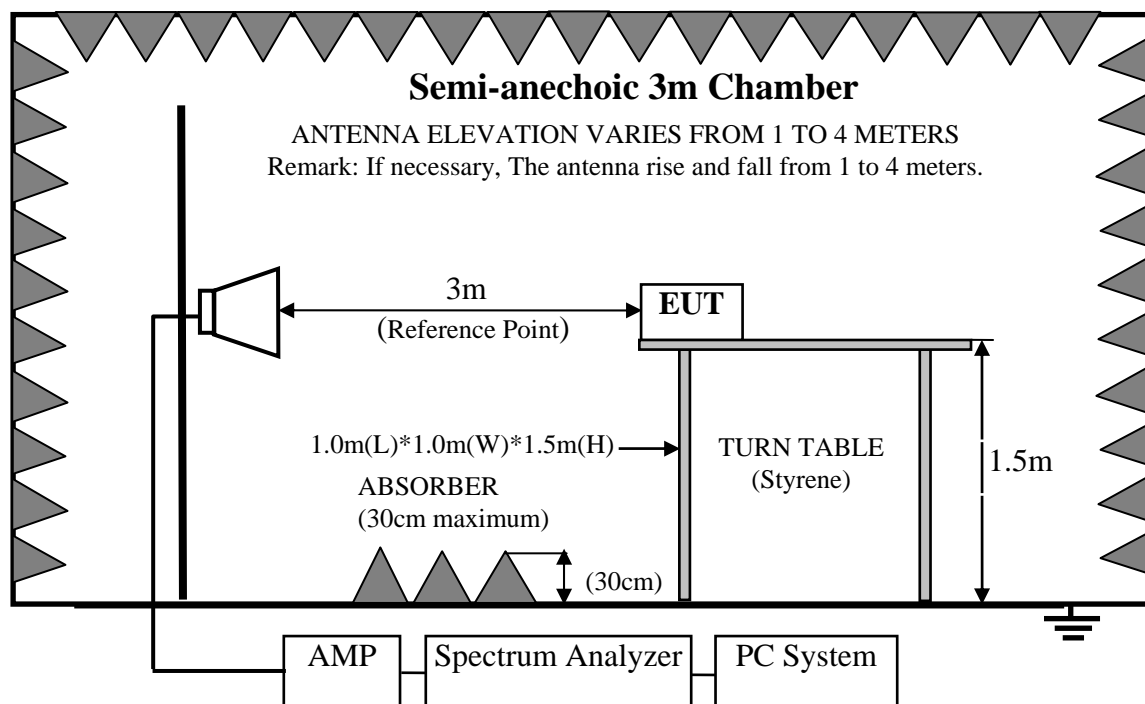
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range above 1GHz



4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.231

Fundamental Frequency(MHz)	Field Strength of Fundamental	Field Strength of Spurious emissions
433.92	QP:80.83dBuV/m at 3m distance	AV:60.83dBuV/m at 3m distance (Above 1GHz) PK:80.83dBuV/m at 3m distance (Above 1GHz) QP:60.83dBuV/m at 3m distance (Below 1GHz)

Note: The spurious emissions appearing within the frequency band listed in 15.205 Shall also comply with limits shown in section 15.209

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5.Operating Condition of EUT

- 4.5.1.Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2.Turn on the power of all equipments.
- 4.5.3.Let EUT work in Tx mode.

4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 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 polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions.

After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation show in the test setup photos.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

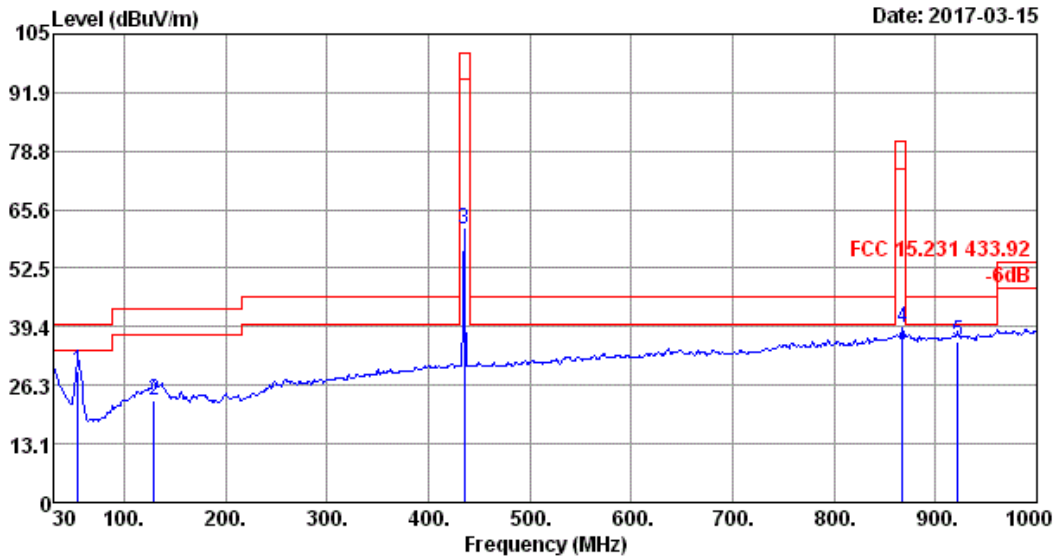
This device is pulse modulated; a duty cycle factor was used to calculate average level based measured peak level.

4.7.Radiated Emission Test Results

PASS.

Note: The emission in the restricted Bands in section 15.205 comply with the 15.209 general limit.

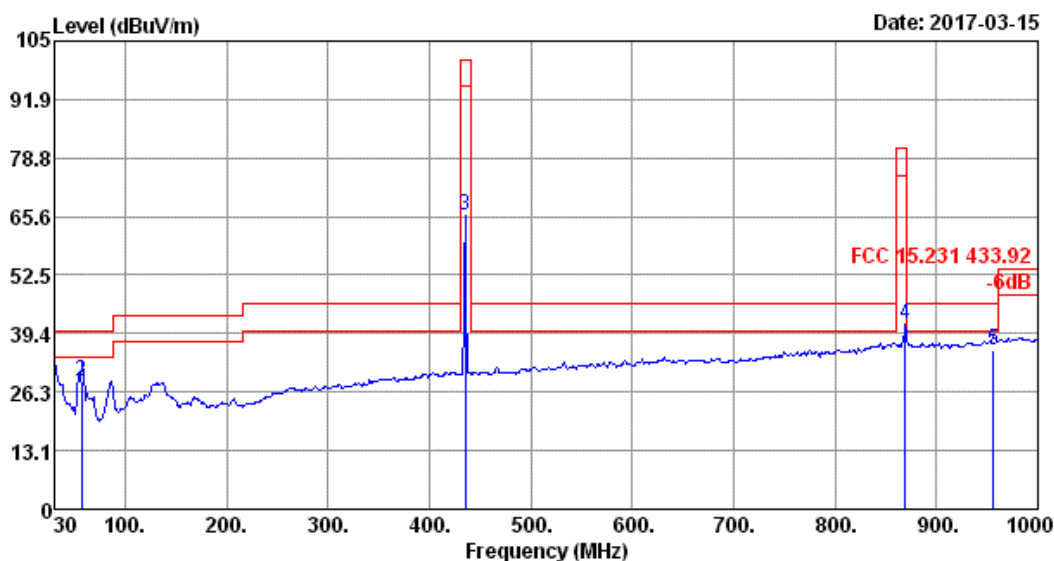
The frequency range from 30MHz to 5000MHz was investigated. When PK measured Levels comply with average limit, then the average levels were deemed to comply with Average limit.

Frequency: 30MHz~1GHz


Site no. : 3m Chamber	Data no. : 3
Dis. / Ant. : 3m 2016 9168-493	Ant. pol. : HORIZONTAL
Limit : FCC 15.231 433.92	
Env. / Ins. : 25.0°C/56%	Engineer : Leo-Li
EUT : WF100	
Power rating : DC 12V From Adapter Input AC 120V/60Hz	
Test Mode : 433.92MHz Tx	

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuA)	Emission Level (dBuA/m)	Limits (dBuA/m)	Margin (dB)	Remark
1	54.250	14.28	0.86	14.34	29.48	40.00	10.52	QP
2	128.940	11.73	1.10	10.20	23.03	43.50	20.47	QP
3	435.460	17.04	2.55	41.67	61.26	100.83	39.57	Peak
4	867.110	23.24	4.22	11.74	39.20	80.83	41.63	Peak
5	922.400	23.87	4.40	7.89	36.16	46.00	9.84	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

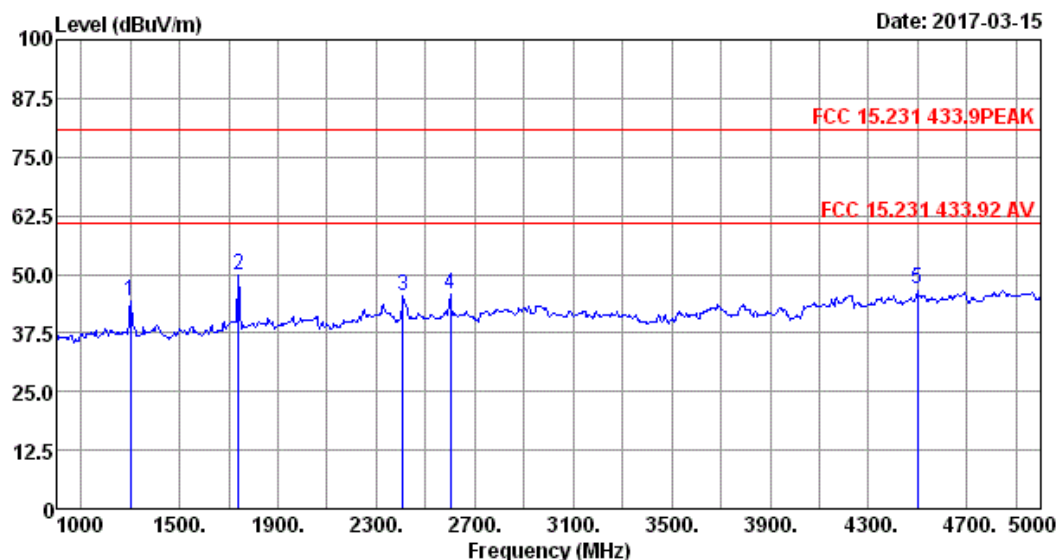


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2016 9168-493 Ant. pol. : VERTICAL
 Limit : FCC 15.231 433.92
 Env. / Ins. : 25.0°C/56% Engineer : Leo-Li
 EUT : WF100
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 433.92MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuA)	Emission Level (dBuA/m)	Limits (dBuA/m)	Margin (dB)	Remark
1	30.000	14.30	0.59	15.23	30.12	40.00	9.88	QP
2	57.160	14.19	0.89	13.78	28.86	40.00	11.14	QP
3	435.460	17.04	2.55	46.29	65.88	100.83	34.95	Peak
4	869.050	23.26	4.23	13.84	41.33	80.83	39.50	Peak
5	956.350	24.28	4.48	6.95	35.71	46.00	10.29	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 2. The emission levels that are 20dB below the official limit are not reported.

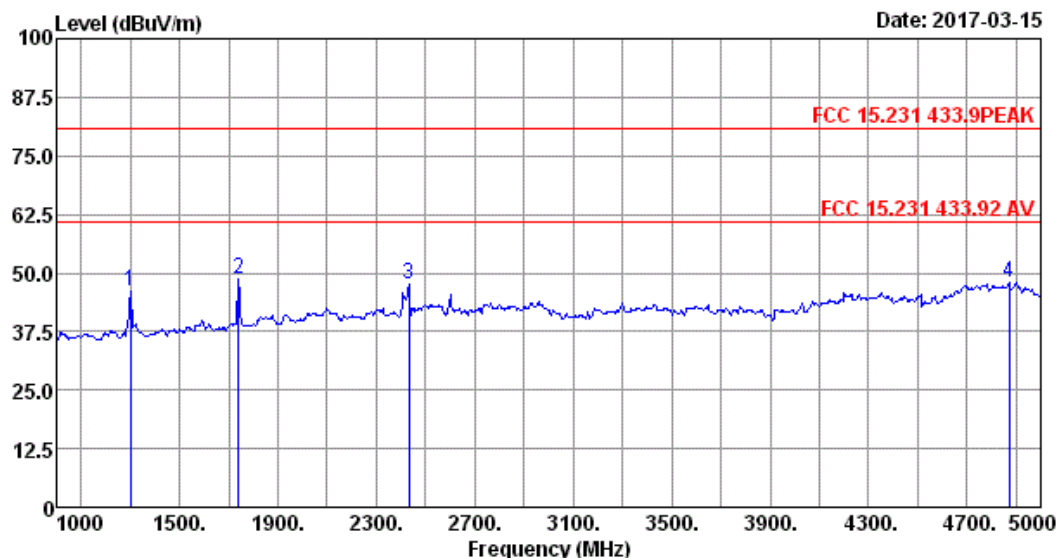
Frequency: 1GHz~5GHz



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2016 MCTD1209 3007 Ant. pol. : HORIZONTAL
Limit : FCC 15.231 433.9PEAK
Env. / Ins. : 25.0°C/56% Engineer : Leo-Li
EUT : WF100
Power rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : 433.92MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	over limit (dB)	Remark
1	1300.000	24.56	1.90	35.51	53.17	44.12	80.83	-36.71	Peak
2	1740.000	26.20	2.24	34.98	56.50	49.96	80.83	-30.87	Peak
3	2408.000	28.15	2.75	34.52	49.00	45.38	80.83	-35.45	Peak
4	2600.000	28.30	2.89	34.45	48.95	45.69	80.83	-35.14	Peak
5	4500.000	33.40	3.78	34.84	44.42	46.76	80.83	-34.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2016 MCTD1209 3007 Ant. pol. : VERTICAL
 Limit : FCC 15.231 433.9PEAK
 Env. / Ins. : 25.0°C/56% Engineer : Leo-Li
 EUT : WF100
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 433.92MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	over limit (dB)	Remark
1	1300.000	24.56	1.90	35.51	55.09	46.04	80.83	-34.79	Peak
2	1740.000	26.20	2.24	34.98	55.08	48.54	80.83	-32.29	Peak
3	2432.000	28.19	2.77	34.51	50.98	47.43	80.83	-33.40	Peak
4	4872.000	32.66	3.91	34.36	45.76	47.97	80.83	-32.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

5. STOP TRANSMITTING TIME TEST

5.1. Test Equipment

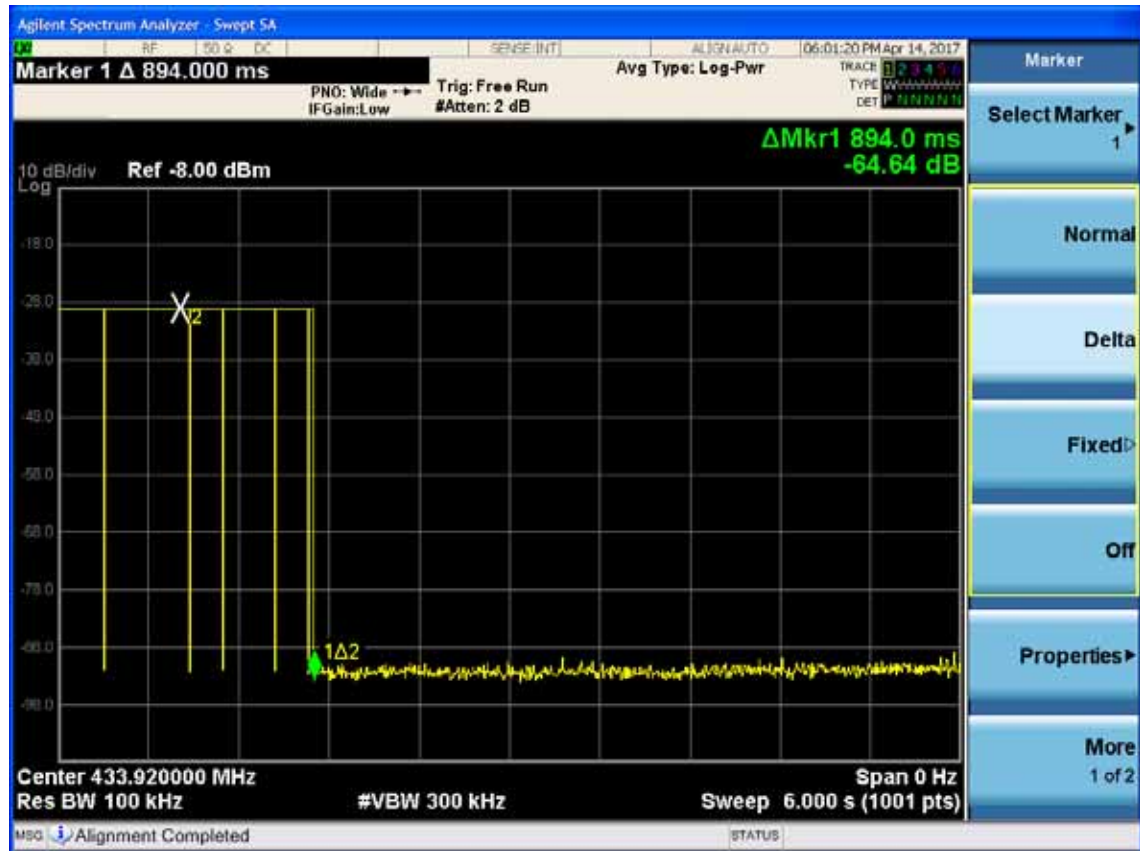
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.15,16	1Year

5.2. Limit

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

5.3. Test Results

Frequency (MHz)	Stop Transmitting Time	Limit	Conclusion
433.920	894.0ms	5s	PASS



6. 20 DB BANDWIDTH TEST

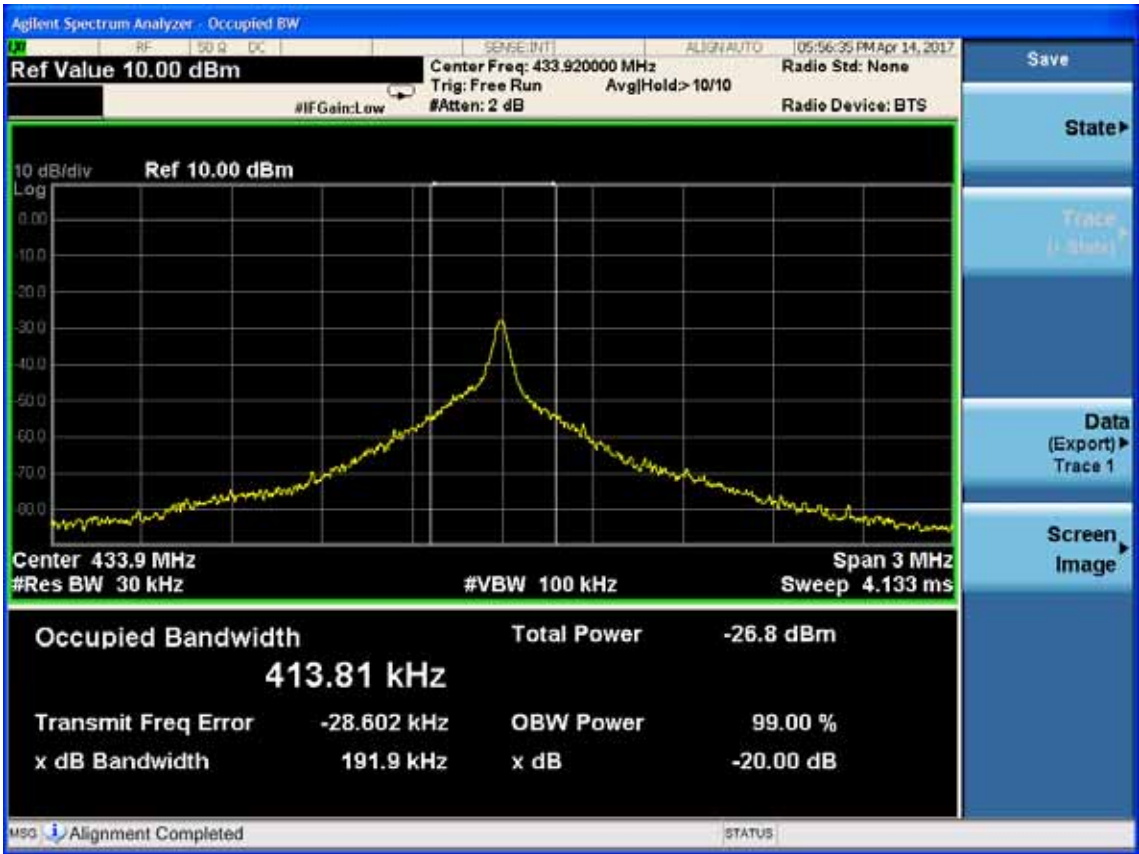
6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.15,16	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.23,16	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.15,16	1 Year

6.2. Test Results

EUT: Wireless Video Doorbell		
M/N: WF100		
Test date: 2017-04-14	Pressure: 101.1±1.0 kpa	Humidity: 51.9±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 22.3±0.6

Frequency (MHz)	20dB Bandwidth (kHz)	Limit(kHz): No wider than 0.25% of the center frequency	Conclusion
433.900	413.81	433.9*0.25%=1.08MHz	PASS



7. ANTENNA REQUIREMENT

RESULT : **PASS**

Test Date : Mar.15~Apr.14, 2017

Test standard : FCC Part 15.231

Limit : the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an Dipole Antenna, the directional gain of antenna is 2dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

8. RADIO FRFREQUENCY EXPOSURE COMPLIANCE

RESULT : PASS

Test standard : FCC KDB Publication 447498 D01 V05

Since maximum peak output power of the transmitter is $<10\text{mW}$, i.e. $0.009346\text{mW} < 10\text{mW}$, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01:General RF Exposure Guidance V05.

9. DEVIATION TO TEST SPECIFICATIONS

[NONE]