

FCC TEST REPORT

For

Shenzhen Jienengbao Technolog Co., Ltd

Wireless remote control transmitter

Model No.: RF263

Additional Model No.: Please refer to page 24.

Prepared for : Shenzhen Jienengbao Technolog Co., Ltd
Address : 2/F, Building A3, Nan Chang The second Industrial Zone, Xi Xiang Road, Bao an District shenzhen, GuangDong

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

Date of receipt of test sample : May 27, 2014
Number of tested samples : 1
Serial number : Prototype
Date of Test : May 27, 2014– June 08, 2014
Date of Report : June 08, 2014

FCC TEST REPORT
FCC CFR 47 PART 15 C(15.231): 2013**Report Reference No. : LCS1405271306E**

Date of Issue : June 08, 2014

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,
Bao'an District, Shenzhen, Guangdong, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐**Applicant's Name..... : Shenzhen Jienengbao Technolog Co., Ltd**Address : 2/F, Building A3, Nan Chang The second Industrial Zone, Xi
Xiang Road, Bao an District shenzhen, GuangDong**Test Specification**

Standard : FCC CFR 47 PART 15 Subpart C : 2013, ANSI C63.4-2009

Test Report Form No..... : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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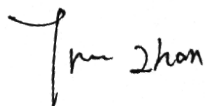
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Test Item Description. : Wireless remote control transmitter

Trade Mark : N/A

Model/ Type reference..... : RF263

Ratings : DC 3V by Battery

Result : **Positive****Compiled by:**

Tree Zhan/ File administrators

Supervised by:

Danny Huang/ Technique principal

Approved by:

Gavin Liang/ Manager

FCC--TEST REPORT

Test Report No. : LCS1405271306E	<u>June 08, 2014</u> Date of issue
---	---------------------------------------

Type / Model.....	: RF263
EUT.....	: Wireless remote control transmitter
Applicant.....	: Shenzhen Jienengbao Technolog Co., Ltd
Address.....	: 2/F, Building A3, Nan Chang The second Industrial Zone, Xi Xiang Road, Bao an District shenzhen, GuangDong
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Jienengbao Technolog Co., Ltd
Address.....	: 2/F, Building A3, Nan Chang The second Industrial Zone, Xi Xiang Road, Bao an District shenzhen, GuangDong
Telephone.....	: /
Fax.....	: /
Factory.....	: Shenzhen Jienengbao Technolog Co., Ltd
Address.....	: 2/F, Building A3, Nan Chang The second Industrial Zone, Xi Xiang Road, Bao an District shenzhen, GuangDong
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Wireless remote control transmitter

Model Number : RF263

Power Supply : DC 3V by Battery

Frequency Range : 433.92MHz

Number of Channels : 1

Modulation Type : ASK

Antenna Type and Gain : Integral Antenna, 2.3dBi

1.2. Objective

The primary objective of the manufacturer is compliance with Subpart C of Part 15 of FCC Rules for the radiated and conducted emissions of intentional radiators and Industry Canada RSS-210 for Low Power, License-Exempt Radio Communication Devices. Certification of these devices is required as a prerequisite to marketing as defined in Part 2 the FCC Rules and Industry Canada Radio Standards Procedure RSP-100.

Certification is a procedure where the manufacturer or a contracted laboratory makes measurements and submits the test data and technical information to the FCC. The FCC issues a grant of equipment authorization upon successful completion of their review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

1.3. Environmental Conditions

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

- Temperature: 15-35 °C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

1.4. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	--

1.5. External I/O Port

I/O Port Description	Quantity	Cable
--	--	--

1.6. EUT Operation

The EUT was placed in a RF test mode for testing of the transmitter and in normal mode of operation for testing the digital circuitry and receiver. In both modes the carrier current device within the EUT was operational. When we press the button ,at the same time the EUT will transmit a signal. No matter how long we pressed the button it only transmit once for 825ms.

1.7. Antenna System

The directional gains of antenna used for transmitting is 2.3dBi, and EUT uses an integral antenna which is permanently attached.

1.8. Description of Test Facility

Site Description

EMC Lab.

: Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011

The Certificate Registration Number. is 9642A-1

Accredited by VCCI, Japan January 30, 2012

The Certificate Registration Number. is C-4260 and R-3804

Accredited by ESMD, April 24, 2012

The Certificate Registration Number. is ARCB0108.

Accredited by UL, June 11, 2012

The Certificate Registration Number. is 100571-492.

Accredited by TUV, November 21, 2012

The Certificate Registration Number. is SCN1081

Accredited by Intertek, December 21, 2012

The Certificate Registration Number. is 2011-RTL-L1-50.

1.9. Statement of The Measurement Uncertainty

ISO Guide 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with NAMAS document NIS 81.

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	$\pm 3.10\text{dB}$	(1)
		30MHz~200MHz	$\pm 2.96\text{dB}$	(1)
		200MHz~1000MHz	$\pm 3.10\text{dB}$	(1)
		1GHz~26.5GH	$\pm 4.20\text{dB}$	(1)
Conduction Uncertainty	:	150kHz~30MHz	$\pm 1.63\text{dB}$	(1)
Power disturbance	:	30MHz~300MHz	$\pm 1.60\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the normal operating mode. The TX frequency that was fixed which was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.231 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions(N/A)

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4

2.4. Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

2.5. Test Mode

The EUT has been tested under engineering mode. When we test it we will press the button then it transmit. The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The worst case of X axis was reported.

A new battery supplied DC 3V power to the EUT for testing.

At the same time the telescope antenna fully extracted.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Rules	Description of test	Result
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band	Compliant
§15.209	General Requirement	Compliant
§15.231 (b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Bandwidth Testing	Compliant
§15.231 (a)(1)	Deactivation Testing	Compliant
§15.231	Duty cycle Factor	Compliant
§15.207	Conducted Emissions	N/A

*Note: All button and antenna length have been taken into consideration and only worst case reported.
at the same time the telescope antenna fully extracted for max emissions*

5. TEST ITEMS AND RESULTS

5.1. Transmitter Deactivation Time

FCC 15.231 (a)

5.1.1. Limit

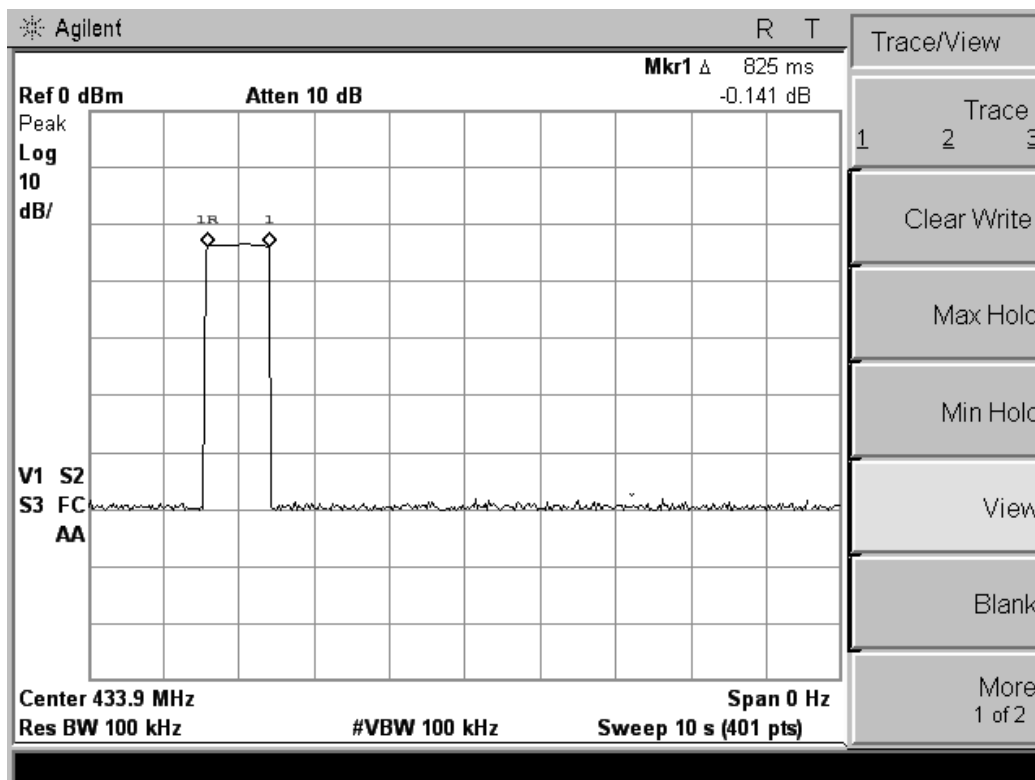
A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

5.1.2. Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations. The antenna was all opened.

5.1.3. Test Results

Frequency (MHz)	Activation Time (s)	Limit: not more than 5 seconds of being released (s)	Conclusion
433.92	0.825	5	PASS



5.2. Transmitter Field Strength of Emissions

5.2.1. Limit

FCC §15.231 (b)

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field Strength of Fundamental (microvolt/meter)	Field Strength of spurious emissions (microvolt/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,370	125 to 375
174-260	3,750	375
260-470	3,750 to 12,500	375 to 1,250
Above 470	12,500	1,250

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2 Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§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 (microvolts/meter)	Measurement distance (meters)
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
88–216	150**	3
216–960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 72 MHz, 76 88 MHz, 174 216 MHz or 470 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

5.2.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

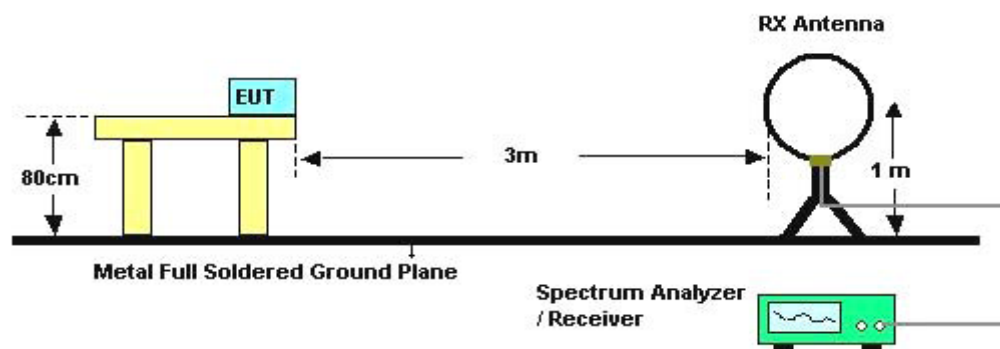
Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.2.3. Test Procedures

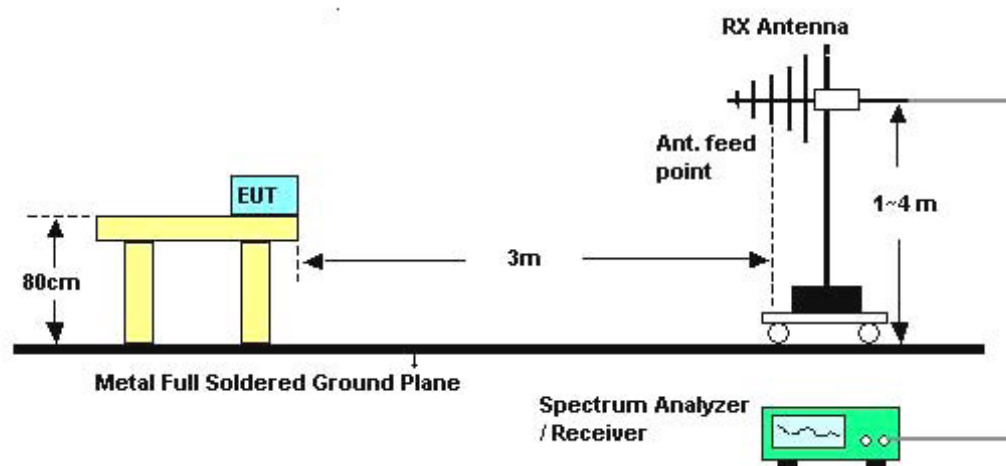
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

5.2.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25°C	Humidity	60%
Test Engineer	Tree	Configurations	Automatically

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

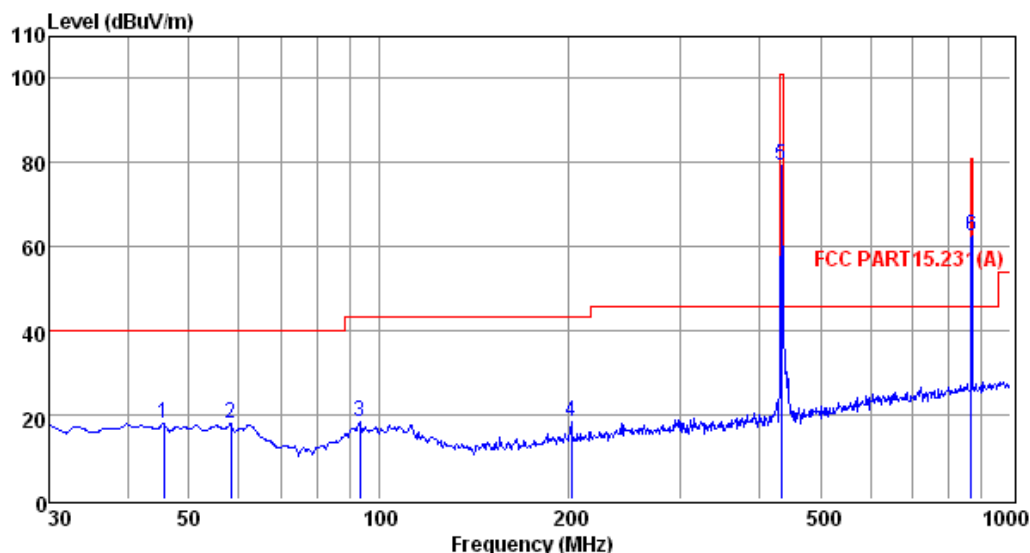
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.2.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	25°C	Humidity	60%
Test Engineer	Tree	Configurations	Fundamental Emissions



Env./Ins: 24°C/56%

EUT: Wireless remote control transmitter

M/N: RF263

Power Rating: DC 3V

Test Mode: TX

Operator: Tree

Memo:

pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	45.53	4.11	0.41	13.52	18.04	40.00	-21.96	QP
2	58.20	4.89	0.47	12.81	18.17	40.00	-21.83	QP
3	93.11	5.44	0.56	12.49	18.49	43.50	-25.01	QP
4	201.39	6.94	0.82	10.61	18.37	43.50	-25.13	QP
5	433.92	62.53	1.18	15.53	79.24	100.82	-21.58	Peak
6	867.84	39.94	1.87	20.76	62.57	80.82	-18.25	Peak

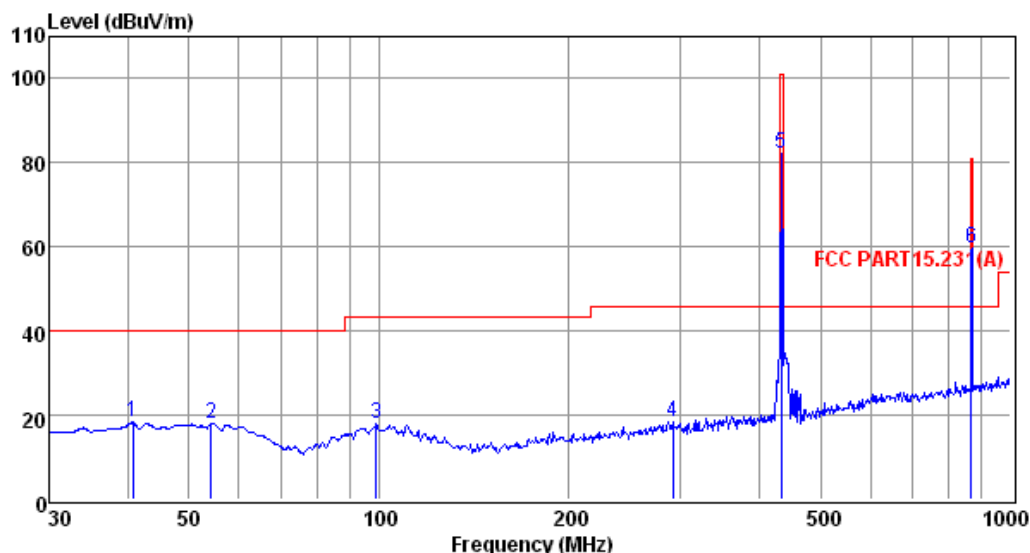
Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that at 20db blow the official limit are not reported

Fundamental and Harmonics Average Result

Freq(MHz)	Peak Level (dBμV/m)	AV Factor(dBμV/m) (see Section 5.4)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
433.92	79.24	-9.67	69.57	80.8	PASS
867.84	62.57	-9.67	52.90	60.8	PASS



Env./Ins: 24°C/56%

EUT: Wireless remote control transmitter

M/N: RF263

Power Rating: DC 3V

Test Mode: TX

Operator: Tree

Memo:

pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	40.70	4.35	0.50	13.58	18.43	40.00	-21.57	QP
2	54.26	4.63	0.46	13.05	18.14	40.00	-21.86	QP
3	98.83	4.36	0.61	13.09	18.06	43.50	-25.44	QP
4	292.06	4.64	1.01	12.91	18.56	46.00	-27.44	QP
5	433.93	65.30	1.18	15.53	82.01	100.82	-18.81	Peak
6	867.84	37.01	1.87	20.76	59.64	80.82	-21.18	Peak

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported

Fundamental and Harmonics Average Result

Freq(MHz)	Peak Level (dBμV/m)	AV Factor(dBμV/m) (see Section 5.4)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
433.92	82.01	-9.67	72.34	80.8	PASS
867.84	59.64	-9.67	49.97	60.8	PASS

5.2.8. Results of Radiated Emissions (Above1GHz)

Temperature	25°C	Humidity	60%
Test Engineer	Tree	Configurations	Harmonics Emissions/ Spurious Emission

Peak Value:

Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over limit (dB)	Polarization
1302.71	43.79	74	-30.21	Horizontal
2603.53	44.13	74	-29.87	Horizontal
1302.71	44.02	74	-29.98	Vertical
2603.53	44.21	74	-29.79	Vertical

Average Value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over limit (dB)	Polarization
1302.71	43.79	-9.67	34.12	54	-19.88	Horizontal
2603.53	44.13	-9.67	34.46	54	-19.33	Horizontal
1302.71	44.02	-9.67	34.35	54	-19.65	Vertical
2603.53	44.21	-9.67	34.54	54	-19.46	Vertical

1. Measuring frequencies from 9k~10th harmonic (ex. 5GHz), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 5GHz) were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5.3. 20dB Bandwidth Emissions

FCC 15.231 (c)

5.3.1. Limit

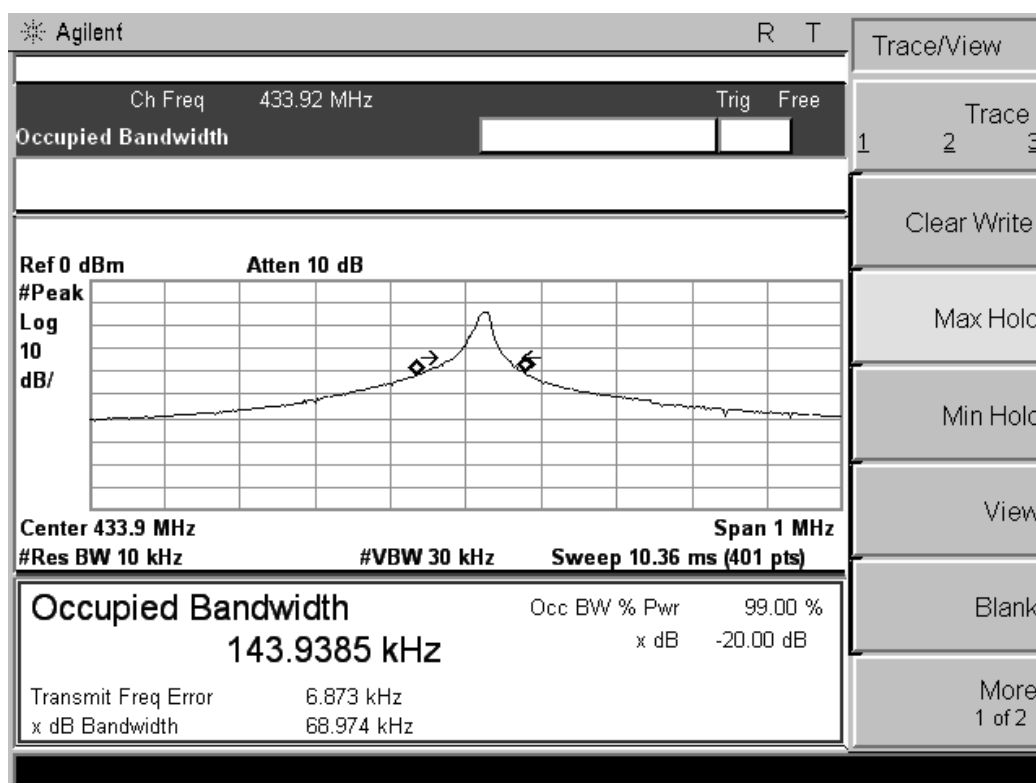
The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

5.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

5.3.3. Test Data

Center Frequency of operation MHz	Maximum allowed bandwidth kHz	Measured 20dB bandwidth kHz	Result
433.9	1084.8	68.974	PASS
Maximum allowed bandwidth:	☒ 0.25% of the centre operating frequency ☐ 0.5% of the centre operating frequency		
RBW:	☒ 10kHz ☐ 100kHz ☐ other kHz		
VBW:	☒ 30kHz ☐ 300kHz ☐ other kHz		



5.4. Duty cycle

5.4.1. Limit

No dedicated limit specified in the Rules.

5.4.2. Test Procedure

5.4.2.1. Place the EUT on the table and set it in transmitting mode.

5.4.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

5.4.2.3. Set centre frequency of spectrum analyzer=operating frequency.

5.4.2.4. Set the spectrum analyzer as RBW=100kHz, VBW=300KHz, Span=0Hz, Adjust Sweep=100ms.

5.4.2.5. Repeat above procedures until all frequency measured was complete.

5.4.3. Test Data

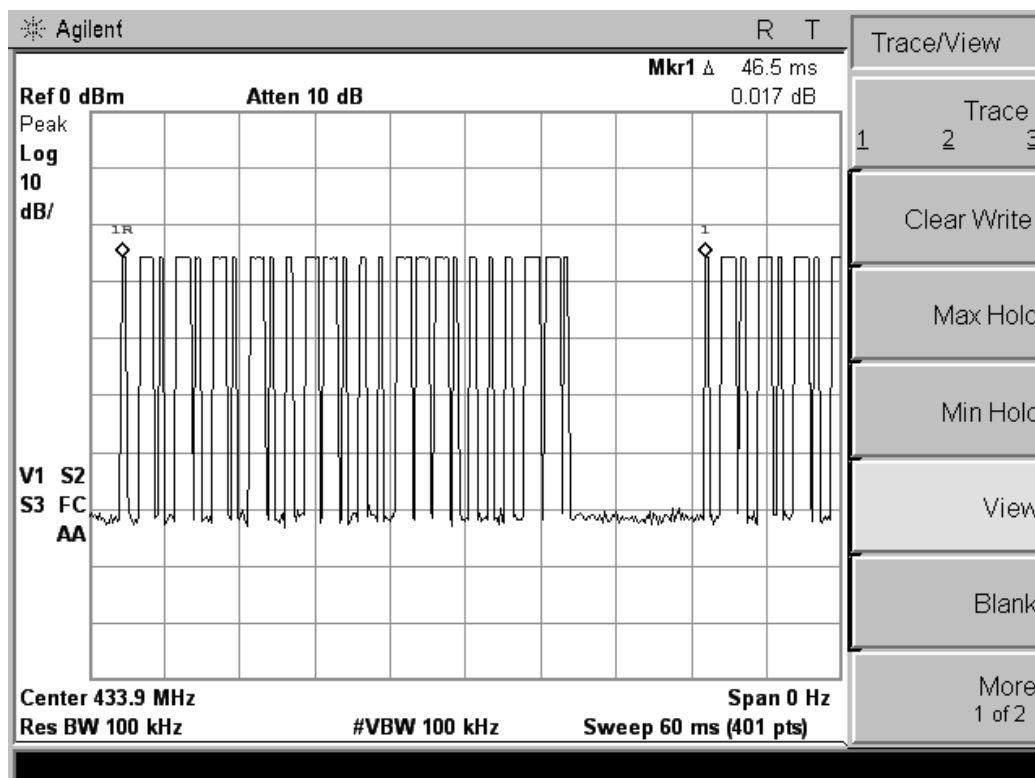
$Ton = (0.975 \times 11 + 0.325 \times 14)ms = 15.275(ms)$

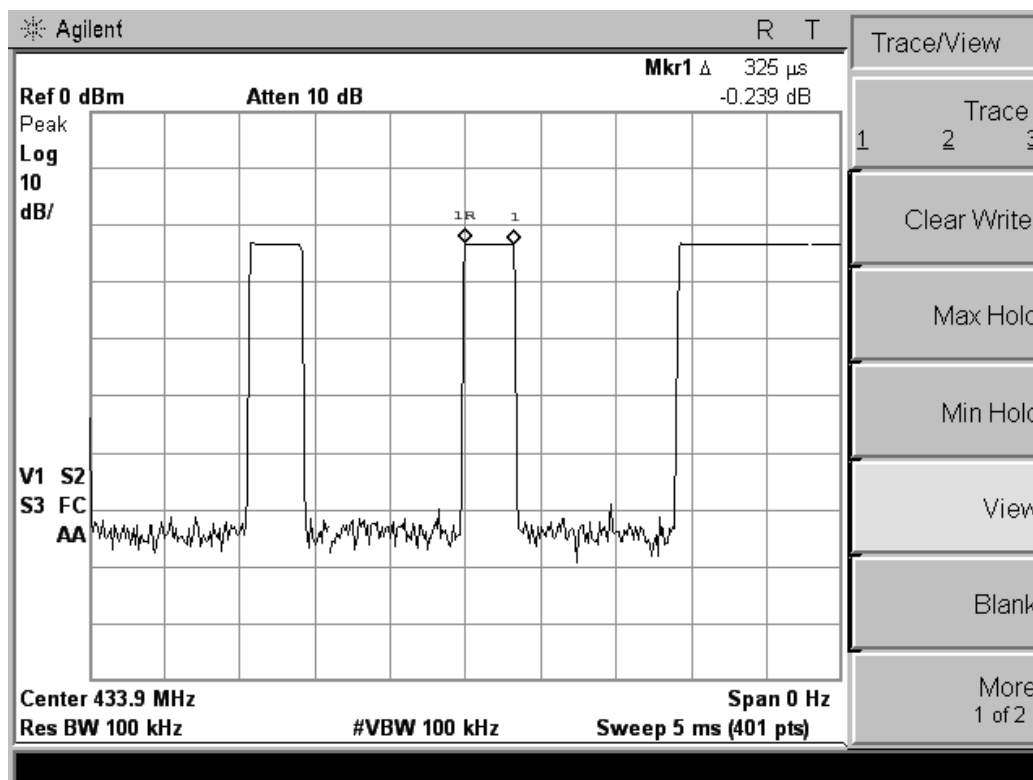
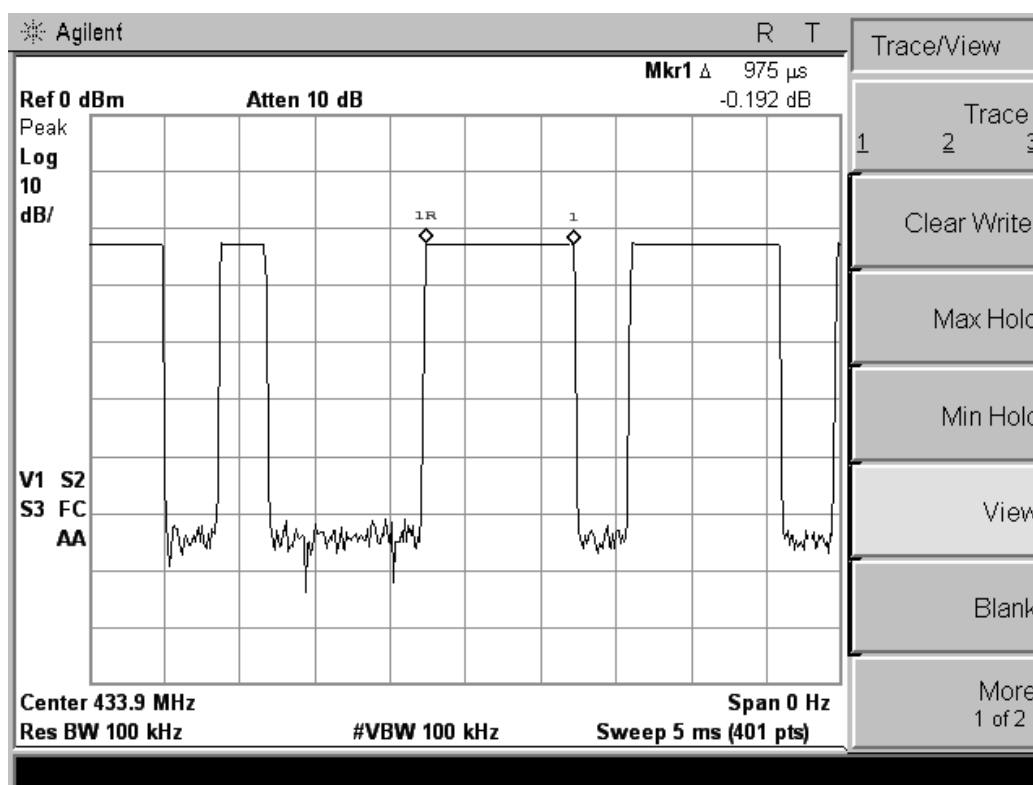
$Tp = 46.5(ms)$

The duty cycle $= 15.275/46.5 = 32.85\%$

Average Correction Factory = $20\log (Ton/Tp) = 20\log (15.275/46.5) = -9.67dB$

Note: The signal bandwidth was measured and less than 100kHz RBW so PDCF factor is not required to correct the fundamental signal peak result.





5.5. Antenna Requirement

FCC 15.203

5.5.1. Standard Applicable

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.

This EUT uses an integral antenna which is permanently attached.

5.5.2. Result

Compliant.

6. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-1GHz 3m	June 18, 2013	June 17, 2014
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHz	July 15, 2013	July 14, 2014
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 15, 2013	July 14, 2014
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	June 18, 2013	June 17, 2014
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 18, 2013	June 17, 2014
By-log Antenna	SCHAFFNER	CBL 6112D	22237	30MHz-1GHz	June 18, 2013	June 17, 2014
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 18, 2013	June 17, 2014
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 18, 2013	June 17, 2014
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 18, 2013	June 17, 2014
Spectrum Meter	R&S	FSP 30	100023	9kHz-30GHz	July 15, 2013	July 14, 2014
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	July 15, 2013	July 14, 2014
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-00	N/A	June 18, 2013	June 17, 2014
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 18, 2013	June 17, 2014
RF CABLE-2m	JYE Bao	RG142	CB)35-2m	20MHz-1GHz	June 18, 2013	June 17, 2014

7. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following identical model(s):

RF261	RF262	RF264	RF265
RF266	RF267	RF268	RF269
RF260	LPR2401	H2401	MJJ1017
28064	28068	28070	28074
28075	51183	51186	28451
28442	28499	--	--

Belong to the tested device:

Product description : Wireless remote control transmitter

Model name : RF263

Remark: No additional models were tested.

-----THE END OF REPORT-----