



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3100310-00658-O



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.



TEST REPORT For FCC ID	
47 CFR PART 15 OCT, 2009	
Report Reference No.	CGZ3100310-00658-O
Date of issue	30 March 2010
Testing Laboratory Name	CETRE OF TESTING SERVICE CO., LTD
Address	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	Venture Global Limited
Address	Room 2506, 25/F., Star Centre, 443-451 Castle Peak Road, Kwai Chung, N.T. China.
Test specification	
Standard	47 CFR PART 15 OCT, 2009
Test Report Form No.	CTSEMC-1.0
TRF Originator	CENTRE OF TESTING SERVICE CO., LTD
Master TRF	Dated 2009-01
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Test item description	Wireless Door Chime
Trade Mark	VenGuard
Manufacturer	Dixon industrial ltd.
Model/Type reference	DCX-800
Ratings	DC 3V
Operating Frequency	914.842MHz/ FSK
Result	Positive

Compiled by:

Quty Liu / File administrators

Supervised by:

Jackson Zhang / Technique principal

Approved by:

Kevin Liang / Manager

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FCC ID -- TEST REPORT

Test Report No. : CGZ3100310-00658-O	<u>30 March 2010</u> Date of issue
---	---------------------------------------

Type / Model.....	DCX-800
EUT.....	Wireless Door Chime
Applicant.....	Venture Global Limited
Address.....	Room 2506, 25/F., Star Centre, 443-451 Castle Peak Road, Kwai Chung, N.T. China.
Telephone.....	+852-3529 1206
Fax.....	+852-3692 5980
Contact.....	CHOW,HING SANG ADAM
Manufacturer.....	Dixon industrial ltd.
Address.....	18 Hedong San road, Jinxia, Changan Town, Dongguan, China
Telephone.....	/
Fax.....	/
Contact.....	CHOW,HING SANG ADAM
Test report holder.....	Venture Global Limited
Address.....	Room 2506, 25/F., Star Centre, 443-451 Castle Peak Road, Kwai Chung, N.T. China.
Telephone.....	+852-3529 1206
Fax.....	+852-3692 5980
Contact.....	CHOW,HING SANG ADAM

Test Result according to the standards on page 3: **Positive**

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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TABLE OF CONTENTS

Description	Page
1 TEST STANDARDS.....	4
2 SUMMARY	4
2.1 GENERAL REMARKS.....	4
2.2 FINAL ASSESSMENT	4
3 EQUIPMENT UNDER TEST	4
3.1 POWER SUPPLY SYSTEM UTILISED	4
3.2 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)	4
3.3 EUT OPERATION MODE	4
3.4 EUT CONFIGURATION	5
4 TEST ENVIRONMENT	6
4.1 ADDRESS OF THE TEST LABORATORY	6
4.2 TEST FACILITY	6
4.3 ENVIRONMENTAL CONDITIONS	6
4.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT	6
4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY	6
4.6 MEASUREMENT UNCERTAINTY.....	7
5 SUMMARY OF STANDARDS AND RESULTS	7
5.1.DESCRPTION OF STANDARDS AND RESULTS	7
6 RADIATED DISTURBANCE (ELECTRIC FIELD).....	8
6.1.TEST EQUIPMENT.....	8
6.2.BLOCK DIAGRAM OF TEST SETUP	8
6.3.RADIATED EMISSION LIMIT STANDARD: FCC 15.249.....	9
6.4.EUT CONFIGURATION ON TEST	9
6.5.OPERATING CONDITION OF EUT.....	9
6.6.TEST PROCEDURE	10
6.7.RADIATED EMISSION TEST RESULTS	10
7 BAND EDGE COMPLIANCE MEASUREMENT	17
7.1. TEST EQUIPMENT.....	17
7.2. TEST INFORMATION.....	17
7.3. TEST RESULTS	17
8 DEVIATION TO TEST SPECIFICATIONS.....	20

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1 TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2009
- ANSI C63.4-2009

2 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	12 March 2010
Testing commenced on	13 March 2010
Testing concluded on	29 March 2010

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 3.
- **does not** fulfil the FCC requirements cited on page 3.

3 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ DC 3V

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
 Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- Standby
- - Test program (customer specific)

Operation mode 1: Transmitting (914.842MHz)

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

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3.4 EUT configuration

3.4.1. Description of configuration (EUT)

3.4.1.1. EUT Information

Description	:	Wireless Door Chime
Model Number	:	DCX-800
Operation frequency	:	914.842MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	Integral antenna, met requirement of FCC 15.203
Antenna Assembly Gain	:	0dBi (maximum)

3.4.2. Tested Supporting System Details

NONE

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 24, 2009 .

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 21, 2009.

4.3 Environmental conditions

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

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

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

5 Summary of standards and results

5.1.Description of Standards and Results

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

EMISSION		
Description of Test Item	Standard	Results
Conducted Disturbance Emission Test	FCC Part 15 C: 15.207 ANSI C63.4-2009	N/A
Radiated Emission Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASS
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASS

N/A is an abbreviation for Not Applicable.

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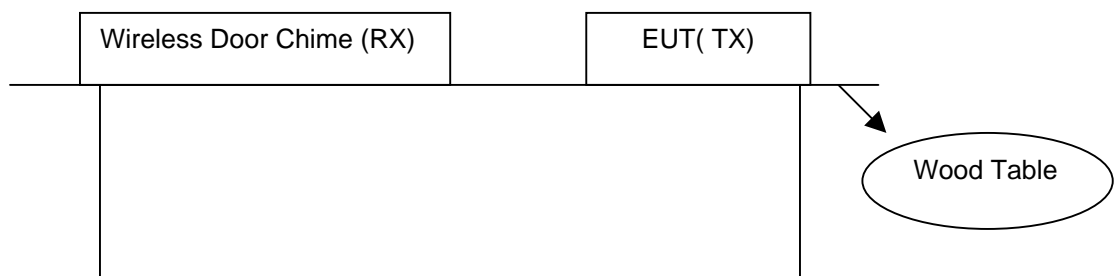
6 Radiated disturbance (electric field)

6.1. Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2009/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2009/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2009/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2009/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2009/12

6.2. Block Diagram of Test Setup

6.2.1 Block Diagram of connection between EUT and simulators



(EUT: Wireless Door Chime)

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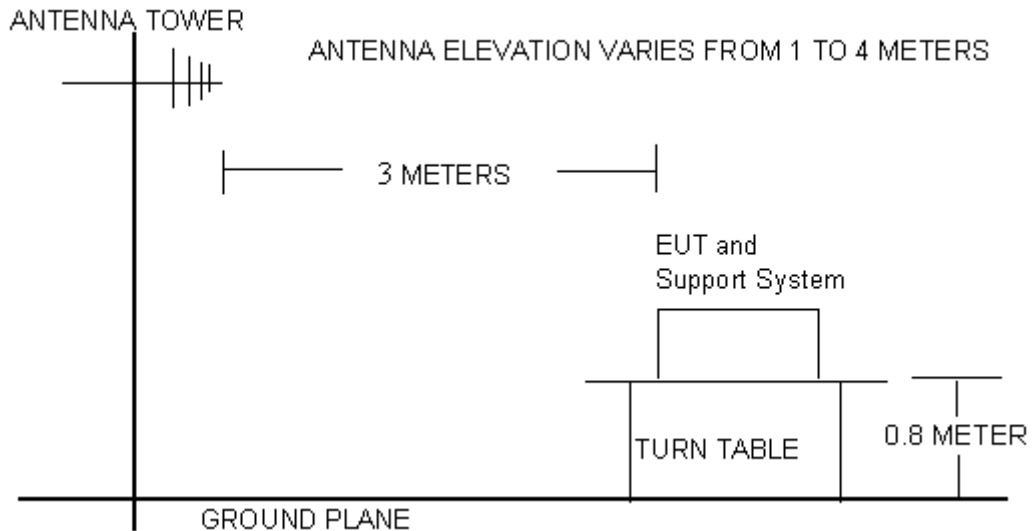
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6.2.2 Anechoic Chamber Setup Diagram



6.3. Radiated Emission Limit Standard: FCC 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Local Oscillator:	3	114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

6.4. 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.

6.5. Operating Condition of EUT

- 6.5.1. Setup the EUT and simulator as shown as Section 6.2.
- 6.5.2. Turn on the power of all equipment.
- 6.5.3. Let the EUT work in test mode (TX) and measurement it.

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6.6. 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 an 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 C63.4-2009 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 6.7

6.7. Radiated Emission Test Results

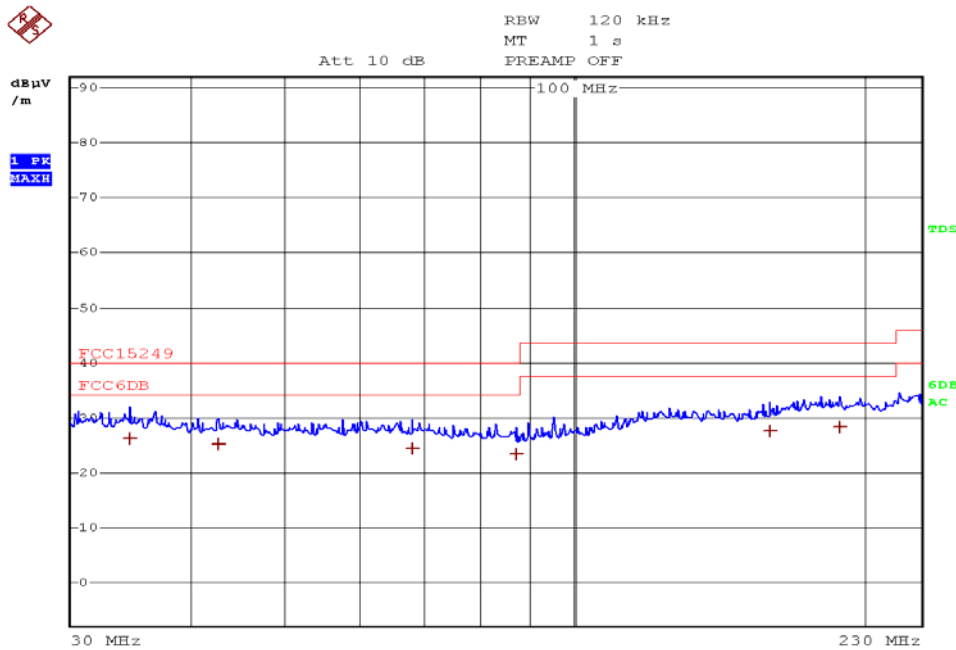
PASSED

The frequency range from 30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.



Channel:	914.842MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	Wireless Door Chime
Firm Name	Venture Global Limited
Operating Condition	DC 3V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	15~25 March 2010
Operator	Roy
MODEL NO	DCX-800



EDIT PEAK LIST (Final Measurement Results)				
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA	LIMIT dB
Trace1:	FCC15249			
Trace2:	---			
Trace3:	---			
1	Quasi Peak 34.56 MHz	26.34		-13.65
1	Quasi Peak 42.72 MHz	25.12		-14.87
1	Quasi Peak 68 MHz	24.49		-15.50
1	Quasi Peak 87.16 MHz	23.29		-16.70
1	Quasi Peak 160.04 MHz	27.45		-16.04
1	Quasi Peak 189.04 MHz	28.33		-15.16

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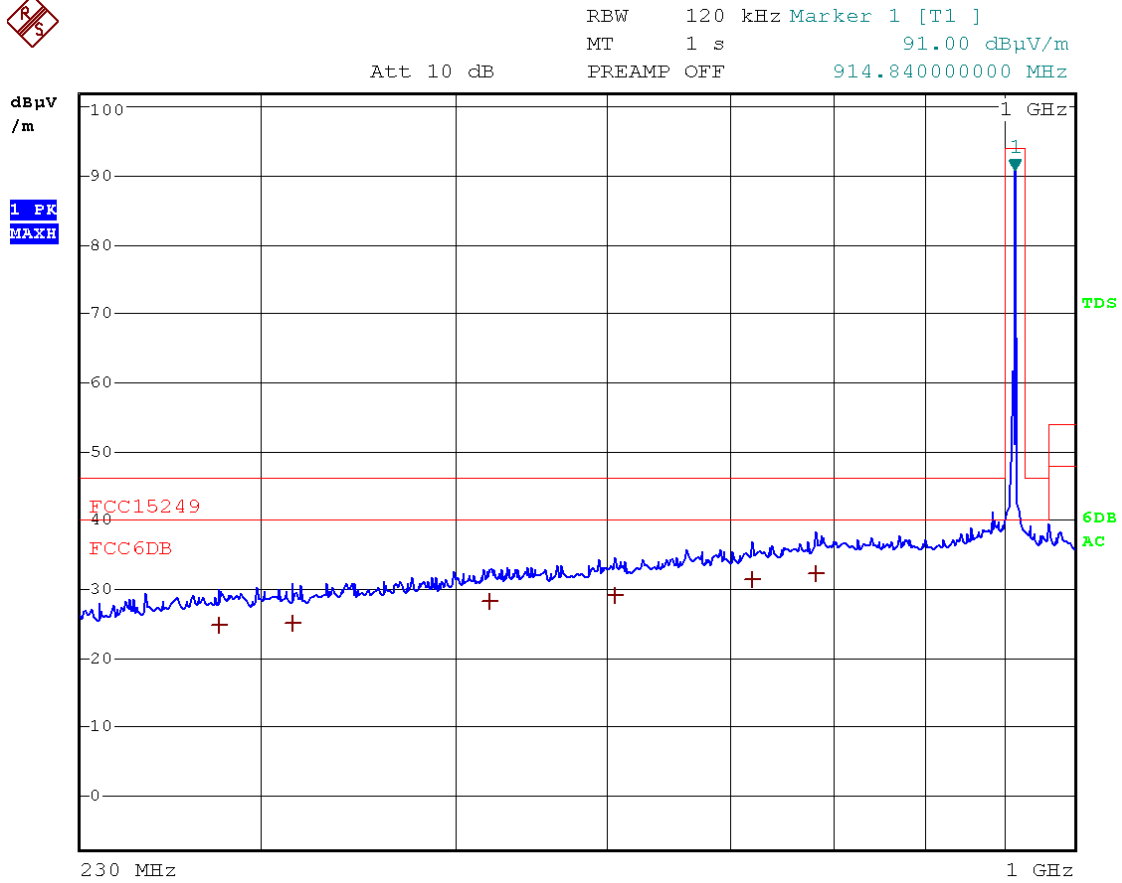
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EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15249			
Trace2:	---			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA	LIMIT dB
1 Quasi Peak	282.84 MHz	24.62	-15.37	
1 Quasi Peak	315.16 MHz	25.10	-14.89	
1 Quasi Peak	421.16 MHz	28.09	-11.90	
1 Quasi Peak	507.32 MHz	29.21	-10.78	
1 Quasi Peak	621.84 MHz	31.40	-8.59	
1 Quasi Peak	683 MHz	32.24	-7.76	

Frequency [MHz]	Result [dBµV]		Limit [dBµV]		Dlimit [dBµV]	
	Average	QP	Average	QP	Average	QP
914.842	---	91.0	---	94.0	---	3.0

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss

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Channel:	914.842MHz	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-10GHz		

EUT	Wireless Door Chime
Firm Name	Venture Global Limited
Operating Condition	DC 3V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	15~25 March 2010
Operator	Roy
MODEL NO	DCX-800

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit [dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1829.7	45.0	53.5	54	74	9.0	20.5
2744.5	45.1	50.7	54	74	8.9	23.3
5971.2	44.6	49.7	54	74	9.4	24.3
6248.7	47.1	56.8	54	74	6.9	17.2
8984.5	41.0	50.0	54	74	13.0	24.0
9181.0	41.4	52.0	54	74	12.6	22.0

Note: 1. Emission level=Read level + Factor
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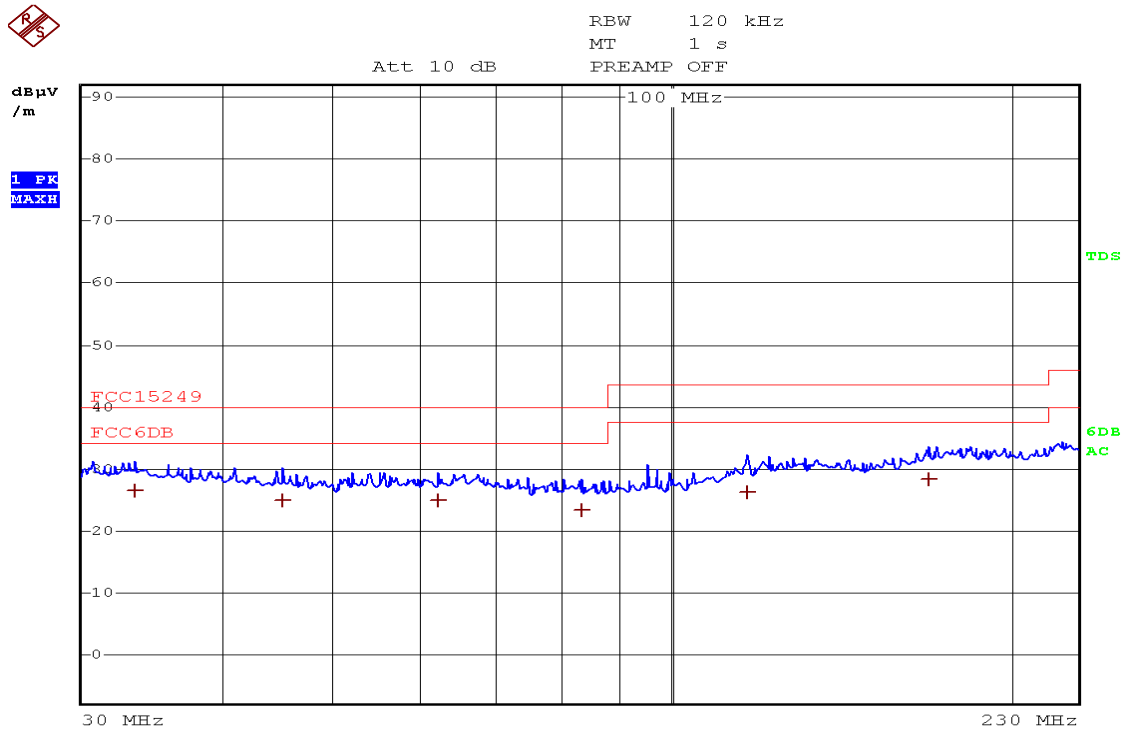
E-mail: cts@cts-lab.com.cn

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Channel:	914.842MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	Wireless Door Chime
Firm Name	Venture Global Limited
Operating Condition	DC 3V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	15~25 March 2010
Operator	Roy
MODEL NO	DCX-800



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15249			
Trace2:	---			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA	LIMIT dB
1 Quasi Peak	33.44 MHz	26.46	-13.53	
1 Quasi Peak	45.28 MHz	24.81	-15.18	
1 Quasi Peak	62.12 MHz	24.80	-15.19	
1 Quasi Peak	83.4 MHz	23.36	-16.63	
1 Quasi Peak	117 MHz	26.16	-17.33	
1 Quasi Peak	169.44 MHz	28.39	-15.10	

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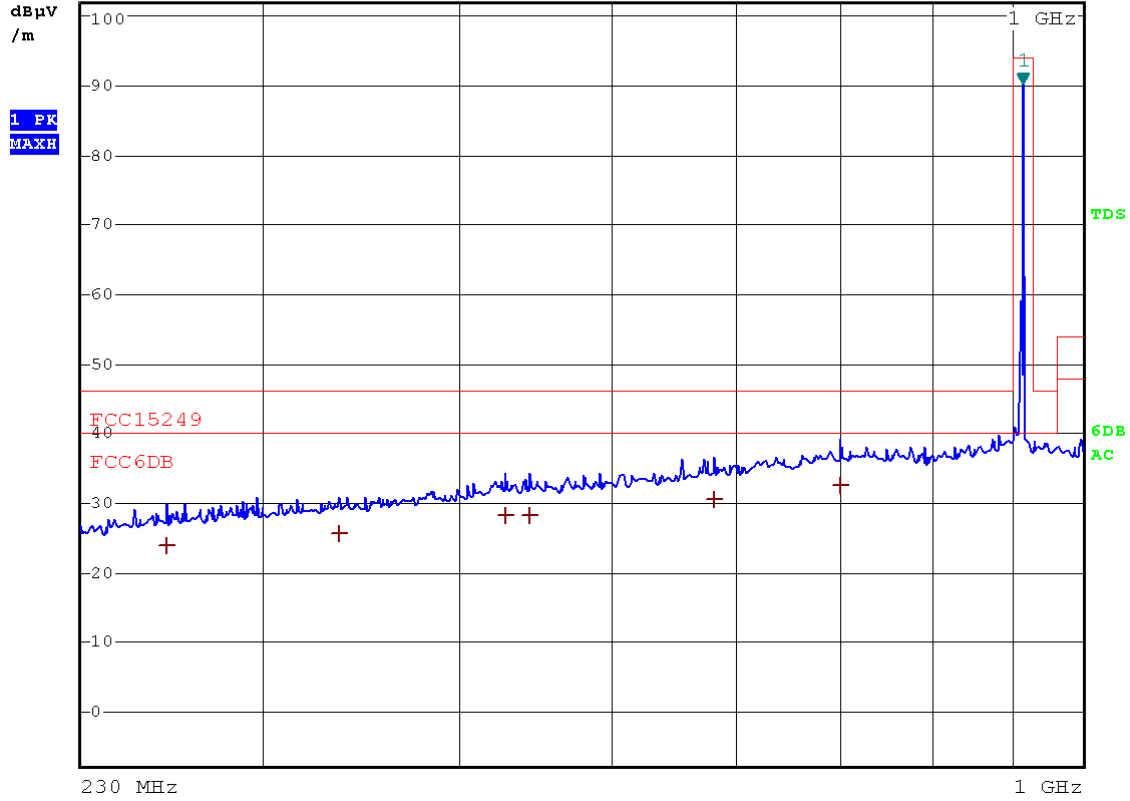
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RBW 120 kHz Marker 1 [T1]
 MT 1 s 90.41 dBµV/m
 PREAMP OFF 914.84000000 MHz

Att 10 dB



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC15249		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	261.2 MHz	24.00	-15.99
1 Quasi Peak	335.8 MHz	25.62	-14.37
1 Quasi Peak	428.4 MHz	28.29	-11.70
1 Quasi Peak	444.44 MHz	28.19	-11.80
1 Quasi Peak	581.48 MHz	30.67	-9.32
1 Quasi Peak	700.16 MHz	32.51	-7.48

Frequency [MHz]	Result [dBµV]		Limit [dBµV]		Dlimit [dBµV]	
	Average	QP	Average	QP	Average	QP
914.842	---	90.41	---	94.0	---	3.59

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss

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Channel:	914.842MHz	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1G-10GHz		

EUT	Wireless Door Chime
Firm Name	Venture Global Limited
Operating Condition	DC 3V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	15~25 March 2010
Operator	Roy
MODEL NO	DCX-800

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit[dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1829.7	45.0	53.1	54	74	9.0	20.9
2744.5	46.9	55.7	54	74	7.1	18.3
4985.4	44.7	52.2	54	74	9.3	21.8
6278.7	47.0	56.2	54	74	7.0	17.8
8887.7	41.0	50.4	54	74	13.0	23.6
9187.4	41.3	52.0	54	74	12.7	22.0

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss

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7 Band Edge Compliance Measurement

7.1. Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	200912
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	200912
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	200912

7.2. Test Information

EUT:	Wireless Door Chime
M/N:	Venture Global Limited
Power supply:	DC 3V
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.249
Test mode:	Transmitting
Test Frequency:	914.842MHz
Test Date:	29 March 2010
Test By:	Jackson

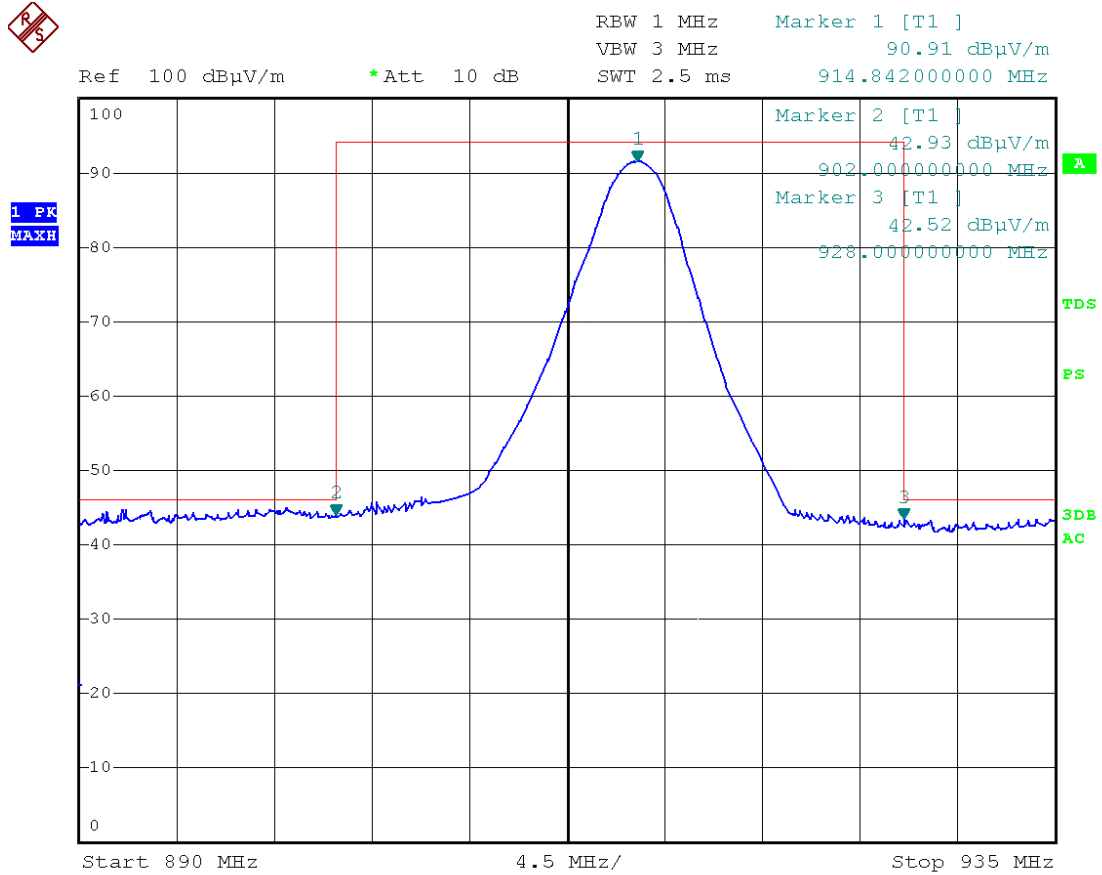
7.3. Test Results

PASSED.

The testing data was attached in the next pages.



Test Frequency:	914.842MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed



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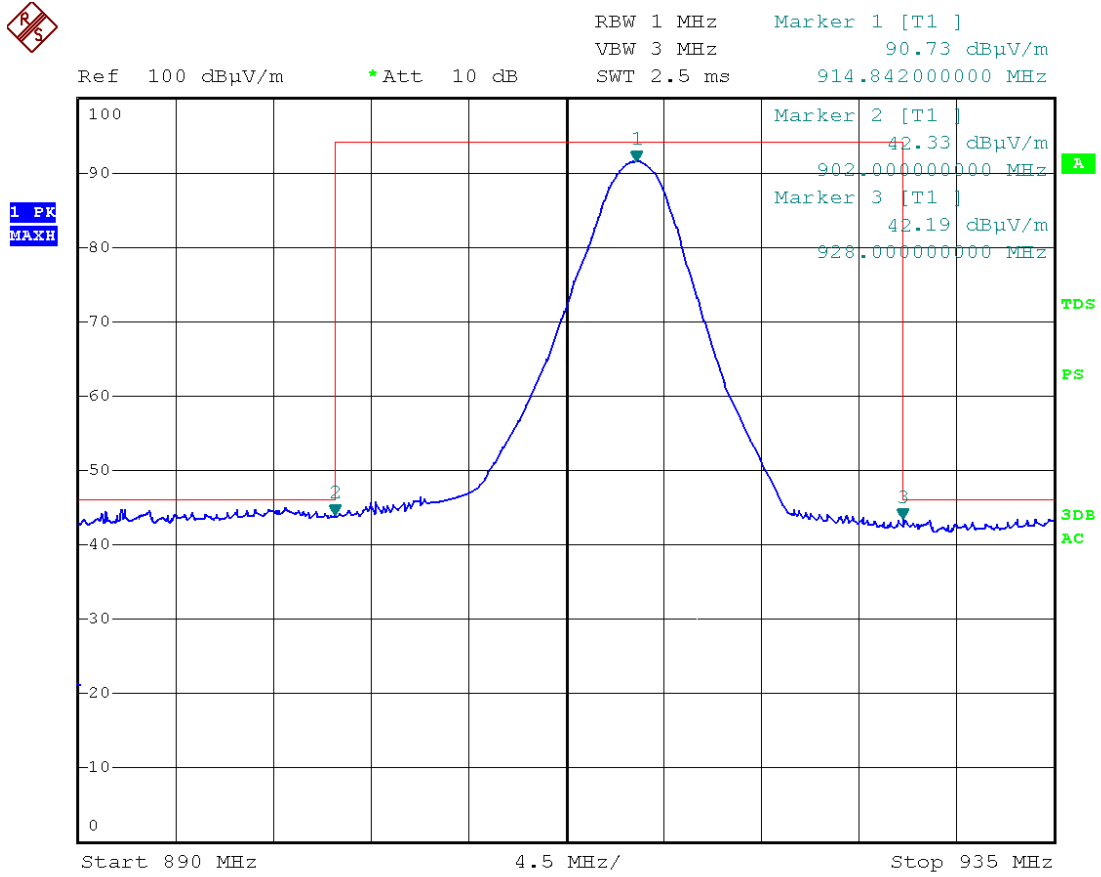
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Test Frequency:	914.842MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed



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8 Deviation to test specifications

[NONE]

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