



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3111103-00923-E



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, 2010	
Report Reference No.	CGZ3111103-00923-E
Date of issue	08 Nov. 2011
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 Ltd.
Address	Room 2506, 25/F, Star Centre, 443-451 Castle Peak Road, Kwai Chung, N.T. Hong Kong.
Test specification	
Standard	47 CFR PART 15 OCT, 2010; ANSI C63.4-2009
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 Ultra Thin Door / Window Alarm
Trade Mark	VenGuard
Manufacturer	Venture Global Ltd.
Model/Type reference	HAX-100
Ratings	DC 6V By Battery
Operating Frequency	914.8MHz/ FSK
Result	Positive

Compiled by:

Violet

Violet Lee / File administrators

Supervised by:

Tom

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Approved by:

Vincent Yao

Vincent yao / Manager

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FCC ID -- TEST REPORT

Test Report No. : CGZ311103-00923-E	08 Nov. 2011 Date of issue
--	-------------------------------

Type / Model.....	HAX-100
EUT.....	Wireless Ultra Thin Door / Window Alarm
Applicant.....	Venture Global Limited
Address.....	Room 2506, 25/F, Star Centre, 443-451 Castle Peak Road, Kwai Chung, N.T. Hong Kong.
Telephone.....	+852-35291206
Fax.....	+852-36925980
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. Hong Kong.
Telephone.....	+852-35291206
Fax.....	+852-36925980
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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10.DEVIATION TO TEST SPECIFICATIONS25

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1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2010
- ANSI C63.4-2009

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	03 Nov. 2011
Testing commenced on	03 Nov. ~08 Nov. 2011
Testing concluded on	08 Nov. 2011

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 : ■ DC6V By Battery

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:

- TX- Y position
- TX- Z position
- TX- X position

Operation mode 1 DC 6V (2 x CR2032) For Radiated: TX-X Position (914.8MHz)

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



3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	Wireless Ultra Thin Door / Window Alarm
Model Number	:	HAX-100
Operation frequency	:	914.8 MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	Integral antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

N/A

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)

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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.: 8374A

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. 8374A on June 6, 2011.

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.

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
Radiated Emission Test	FCC Part 15 C: 15.249 FCC Part 15 : 109 FCC Part 15: 209 ANSI C63.4-2009	PASSED
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
20dB bandwidth	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
N/A is an abbreviation for Not Applicable.		

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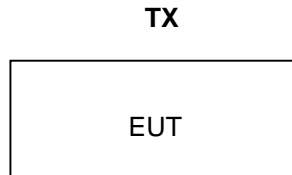
6. Radiated disturbance (electric field)

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	2010/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2010/12

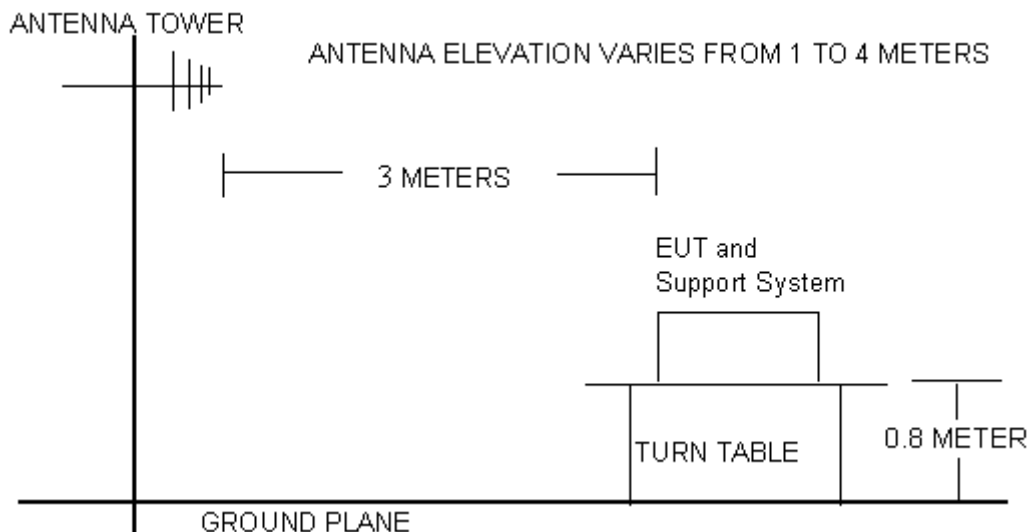
6.2. Block Diagram of Test Setup

6.2.1 Block Diagram of connection between EUT and simulators



(EUT: Wireless Ultra Thin Door / Window Alarm)

6.2.2 Anechoic Chamber Setup Diagram



6.3. Radiated Emission Limit :

Standard: FCC 15.249 ,FCC 15.109 FCC 15.209.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
0.009 ~ 0.490	3	---	63.0
0.490 ~ 1.705	3	---	43.0
1.705 ~ 30	3	----	49.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

- Remark:
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
 - (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.

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6.4. 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 C63.4-2009 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 7.5

6.5. Radiated Emission Test Results

PASSED.

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated.

Please see the following pages.



Test Mode:	TX -X Position Mode 914.8MHz	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	9KHz~30MHz		<input type="checkbox"/> - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.7859	16.34	8.01	24.35	43.00	-18.65	QP
2	0.8875	16.40	6.72	23.12	43.00	-19.88	QP
3	1.2994	16.02	6.24	22.26	43.00	-20.74	QP
4	2.4866	14.77	11.89	28.66	49.50	-20.84	QP
5	3.7607	15.14	13.05	28.19	49.50	-21.31	QP
6	11.3338	16.23	10.24	26.47	49.50	-23.03	QP

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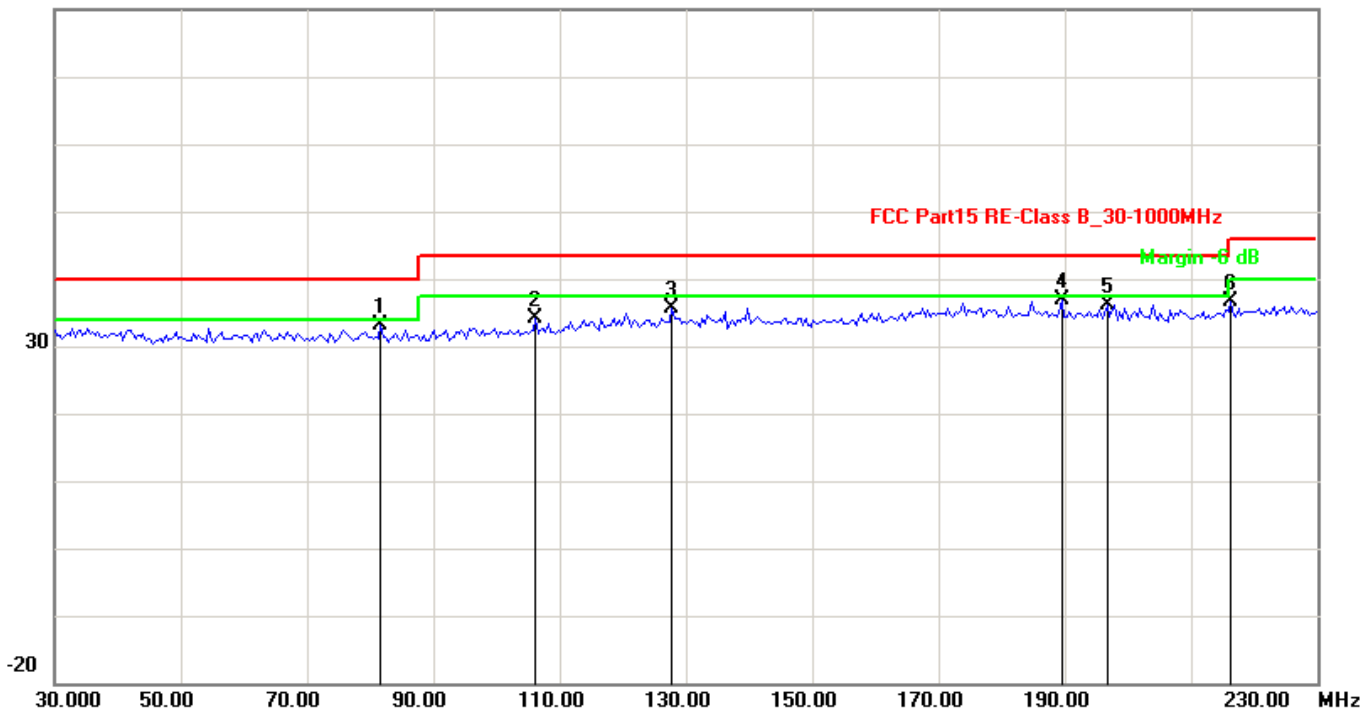
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Channel:	TX -X Position Mode 914.8MHz	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz~1000MHz		

EUT	Wireless Ultra Thin Door / Window Alarm
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 6V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	08 Nov. 2011
Operator	Peter
MODEL NO	HAX-100

80.0 dBuV/m



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	81.7034	4.83	28.20	33.03	40.00	-6.97	QP
2	106.1523	5.52	28.73	34.25	43.50	-9.25	QP
3	127.7956	6.58	29.09	35.67	43.50	-7.83	QP
4	189.5190	7.40	29.42	36.82	43.50	-6.68	QP
5	196.7335	7.37	28.80	36.17	43.50	-7.33	QP
6	216.3727	7.71	28.89	36.60	46.00	-9.40	QP

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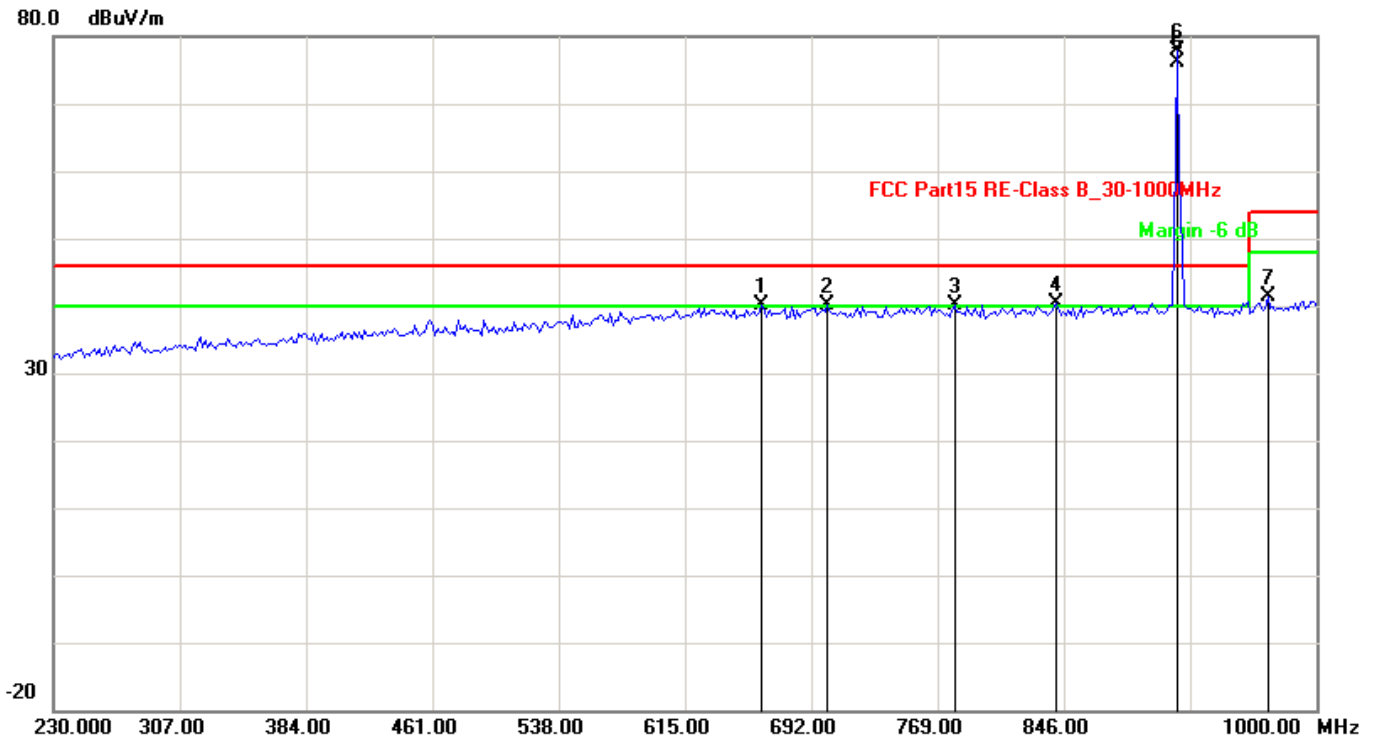
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	662.0641	9.94	30.23	40.17	46.00	-5.83	QP
2	702.1844	10.34	29.85	40.19	46.00	-5.81	QP
3	779.3387	10.21	29.84	40.05	46.00	-5.95	QP
4	841.0621	10.21	30.26	40.47	46.00	-5.53	QP
5	914.8303	10.50	65.53	76.03	94.00	-17.97	QP
6	914.8303	10.50	67.41	77.91	94.00	-16.09	peak
7	970.6814	10.50	30.83	41.33	54.00	-12.67	QP

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss
 3. Margin=Level-Limit.

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Channel:	TX -X Position Mode 914.8MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

EUT	Wireless Ultra Thin Door / Window Alarm
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 6V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	03 Nov. ~08 Nov. 2011
Operator	Peter
MODEL NO	HAX-100

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2857.715	19.75	32.69	52.44	74.00	-21.56	peak
2	2857.715	19.75	21.69	41.44	54.00	-12.56	AVG
3	5977.956	24.80	32.72	57.52	74.00	-16.48	peak
4	5977.956	24.80	16.07	40.87	54.00	-13.13	AVG
5	6969.940	25.16	34.56	59.72	74.00	-14.28	peak
6	6969.940	25.16	14.82	39.98	54.00	-14.02	AVG
7	7961.924	26.81	30.60	57.41	74.00	-16.59	peak
8	7961.924	26.81	15.20	42.01	54.00	-11.99	AVG
9	9458.918	28.13	29.14	57.27	74.00	-16.73	peak
10	9458.918	28.13	12.99	41.12	54.00	-12.88	AVG
11	9981.964	29.25	30.30	59.55	74.00	-14.45	peak
12	9981.964	29.25	10.82	40.07	54.00	-13.93	AVG

Remark: Other frequency mini margin all >10 dB of Limit

- Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss
 3. Margin=Level-Limit.

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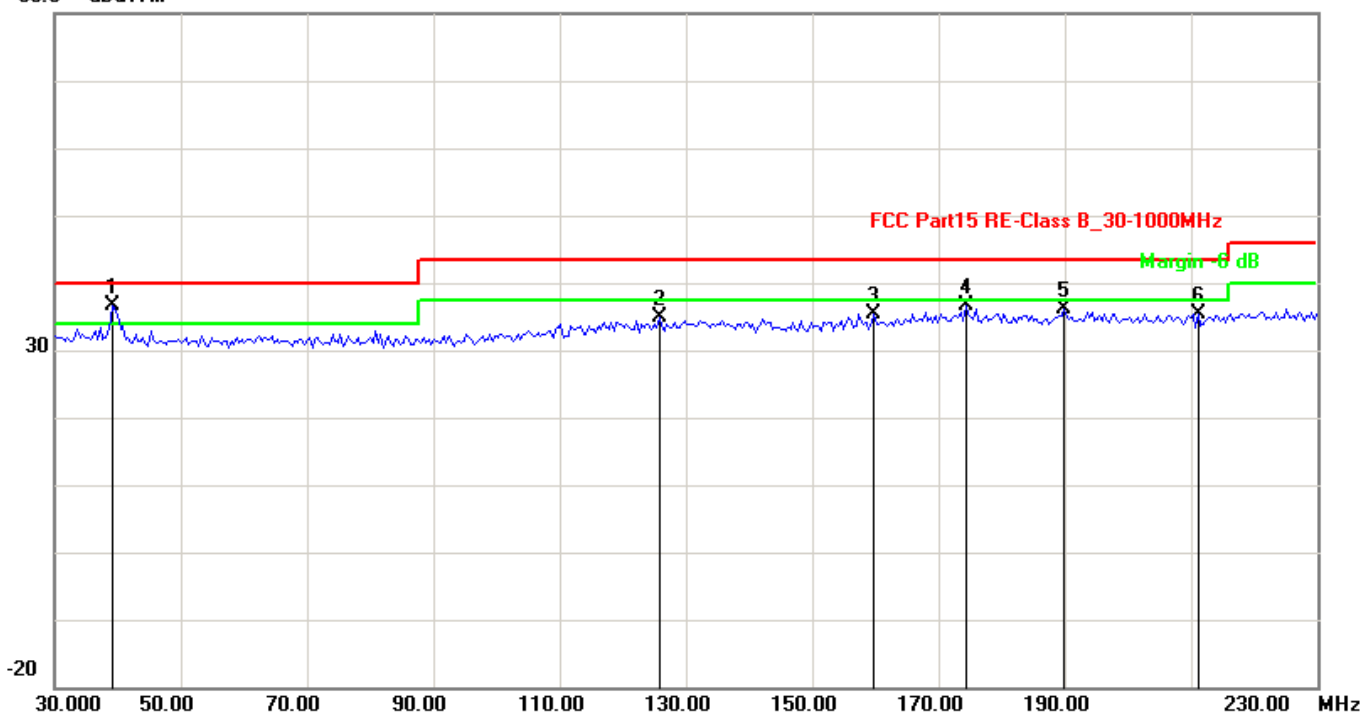
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Channel:	TX -X Position Mode 914.8MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	Wireless Ultra Thin Door / Window Alarm
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC6V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	03 Nov. ~08 Nov. 2011
Operator	Peter
MODEL NO	HAX-100

80.0 dBuV/m



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.2184	5.75	30.95	36.70	40.00	-3.30	QP
2	125.7916	6.56	28.25	34.81	43.50	-8.69	QP
3	159.8597	6.65	28.69	35.34	43.50	-8.16	QP
4	174.2886	7.42	29.15	36.57	43.50	-6.93	QP
5	189.9198	7.40	28.68	36.08	43.50	-7.42	QP
6	211.1623	7.38	28.05	35.43	43.50	-8.07	QP

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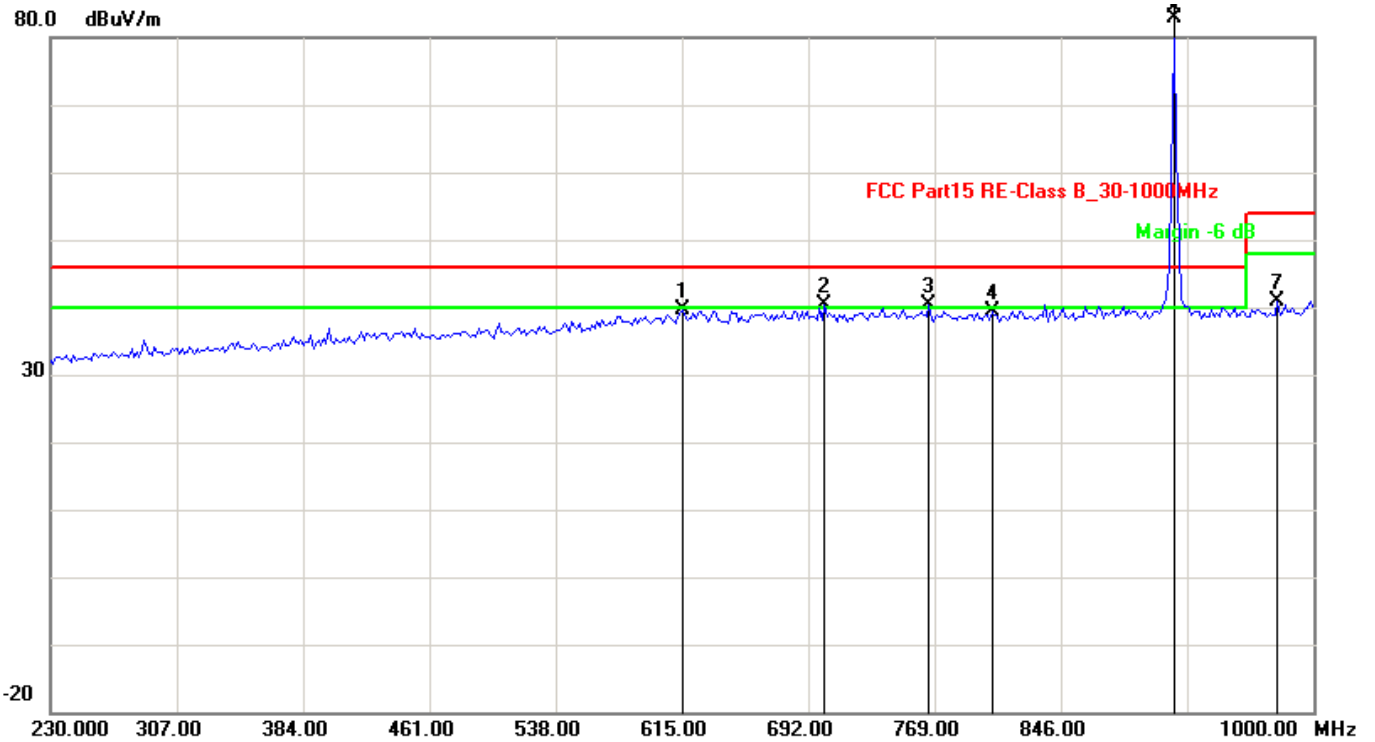
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	615.7715	9.58	29.94	39.52	46.00	-6.48	QP
2	702.1844	10.34	29.96	40.30	46.00	-5.70	QP
3	765.4509	10.25	30.21	40.46	46.00	-5.54	QP
4	804.0281	10.02	29.41	39.43	46.00	-6.57	QP
5	914.8302	10.50	72.64	83.14	94.00	-11.86	QP
6	914.8303	10.50	74.24	84.74	94.00	-9.26	peak
7	978.3968	10.50	30.37	40.87	54.00	-13.13	QP

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss
 3. Margin=Level- Limit.

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Channel:	TX -X Position Mode 914.8MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

EUT	Wireless Ultra Thin Door / Window Alarm
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 6V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	03 Nov. ~08 Nov. 2011
Operator	Peter
MODEL NO	HAX-100

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3002.004	19.37	36.92	56.29	74.00	-17.71	peak
2	3002.004	19.37	21.74	41.11	54.00	-12.89	AVG
3	4535.070	19.85	29.06	58.91	74.00	-15.09	peak
4	4535.070	19.85	20.28	40.13	54.00	-13.87	AVG
5	6591.182	25.41	34.19	59.60	74.00	-14.40	peak
6	6591.182	25.41	14.76	40.17	54.00	-13.83	AVG
7	6933.868	26.15	34.30	60.45	74.00	-13.55	peak
8	6933.868	26.15	13.84	39.99	54.00	-14.01	AVG
9	8106.212	28.41	29.49	57.90	74.00	-16.10	peak
10	8106.212	28.41	14.24	42.65	54.00	-11.35	AVG
11	9855.711	30.74	29.65	60.39	74.00	-13.61	peak
12	9855.711	30.74	9.49	40.23	54.00	-13.77	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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8. Band Edge Compliance test

8.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2010/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12

8.2. Test Information

EUT	Wireless Ultra Thin Door / Window Alarm
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 6V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	03 Nov. ~08 Nov. 2011
Operator	Peter
MODEL NO	HAX-100

8.3. Test procedure

- 1、 The EUT operates at TX mode. The transmitter channel are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2、 Max hold the trace of the setp 1,and the EUT operates at Normal test mode to verify the largest spurious emissions power.

8.4. Test Results

PASSED.

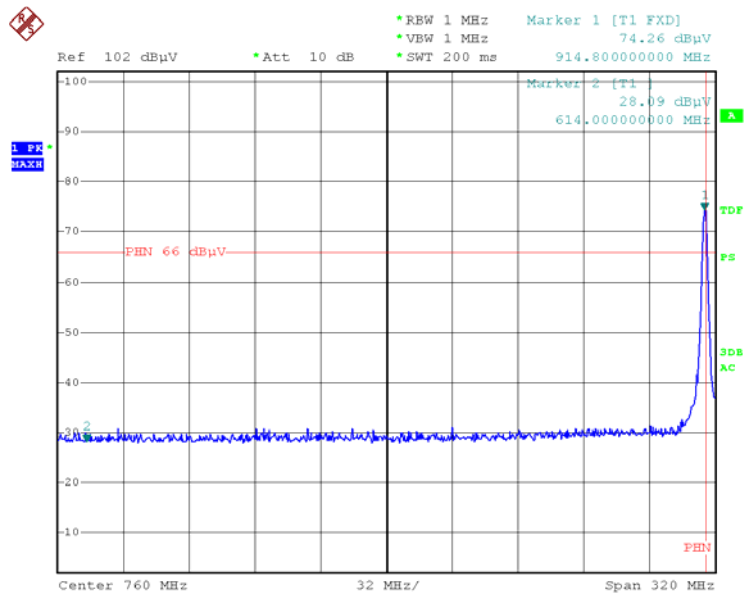
The EUT operates at TX test mode. The transmitter channel are tested to verify the band edge emissions.

Test Mode	Channel Marked Frequency	Test Result Highest Emission (dBuv/m)					
		Horizontal			Vertical		
		Peak	QP	Average	Peak	QP	Average
Low Channel	614MHz	28.09	26.32	18.10	28.58	26.49	18.10
High Channel	960MHz	29.60	26.96	18.93	30.54	27.05	19.20
Remark: Other Spurious Emissions mini margin all >10 dB of Limit.							



Band Edges(Low)
Detector mode:Peak

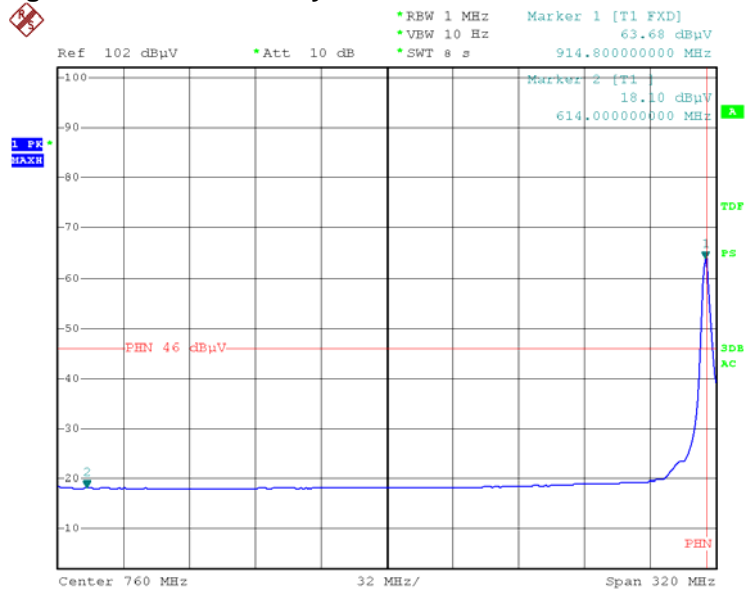
Polarity:Horizontal



Date: 8.NOV.2011 11:09:25

Band Edges(CH Low)
Detector mode:Average

Polarity:Horizontal



Date: 8.NOV.2011 11:14:46

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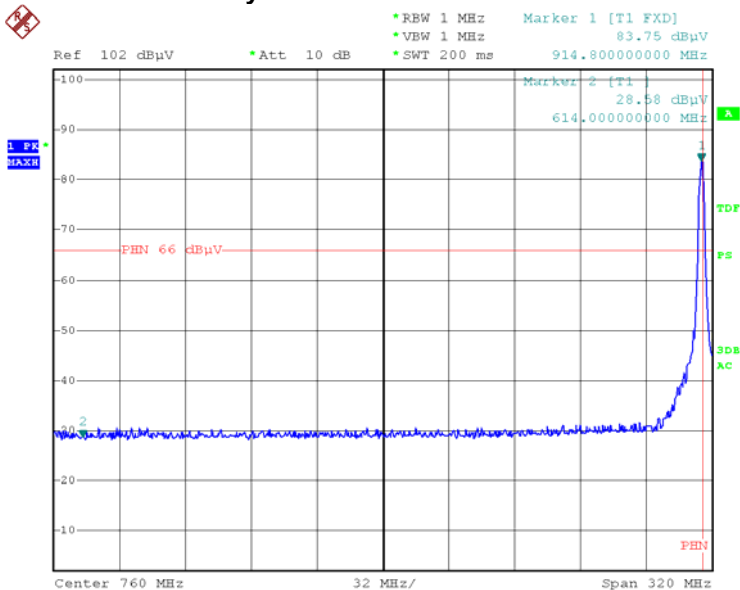
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Band Edges(CH Low)
Detector mode:Peak

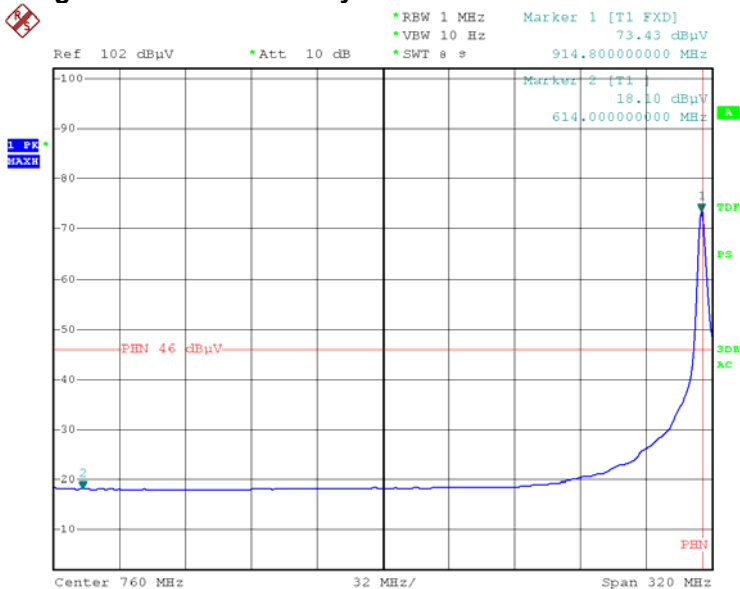
Polarity:Vertical



Date: 8.NOV.2011 11:08:25

Band Edges(CH Low)
Detector mode:Average

Polarity:Vertical



Date: 8.NOV.2011 11:13:45

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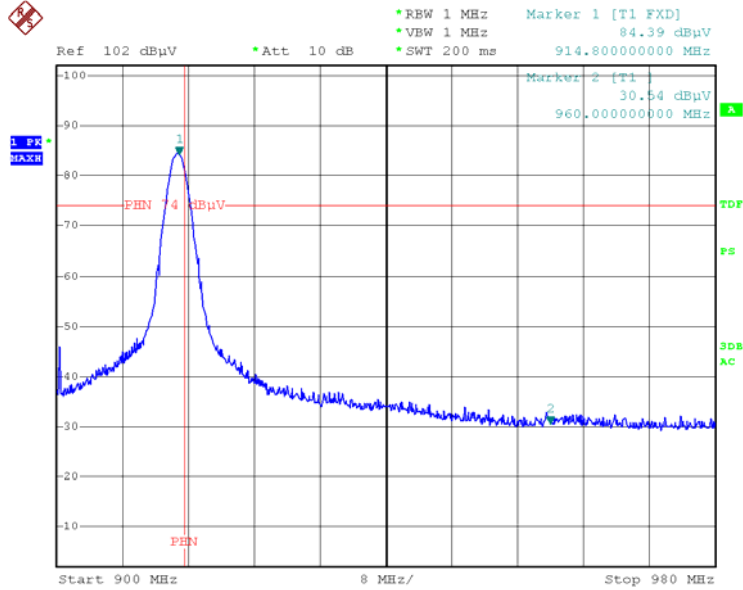
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Band Edges(CH High)
Detector mode:Peak

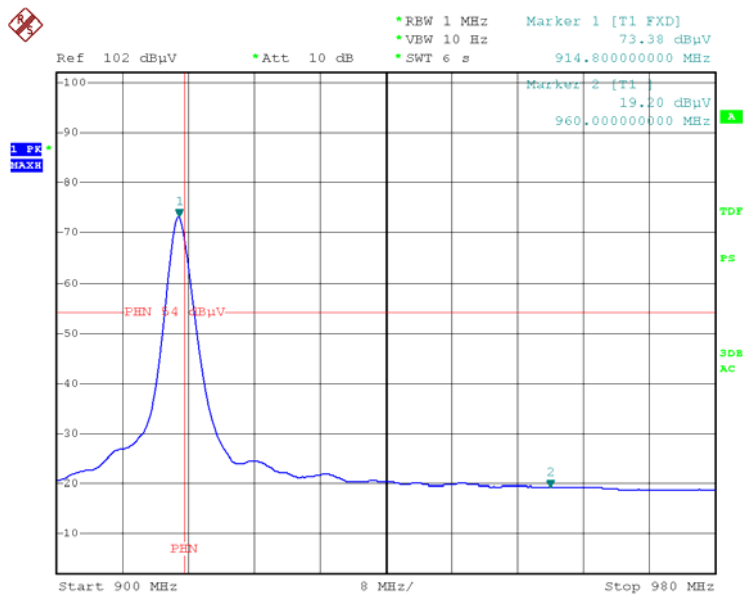
Polarity:Vertical



Date: 8.NOV.2011 11:18:52

Band Edges(CH High)
Detector mode:Average

Polarity:Vertical



Date: 8.NOV.2011 11:17:26

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9 20 dB Bandwidth test

9.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2010/12
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
4	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12

9.2. Test Information

EUT	Wireless Ultra Thin Door / Window Alarm
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 6V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	03 Nov. ~08 Nov. 2011
Operator	Peter
MODEL NO	HAX-100

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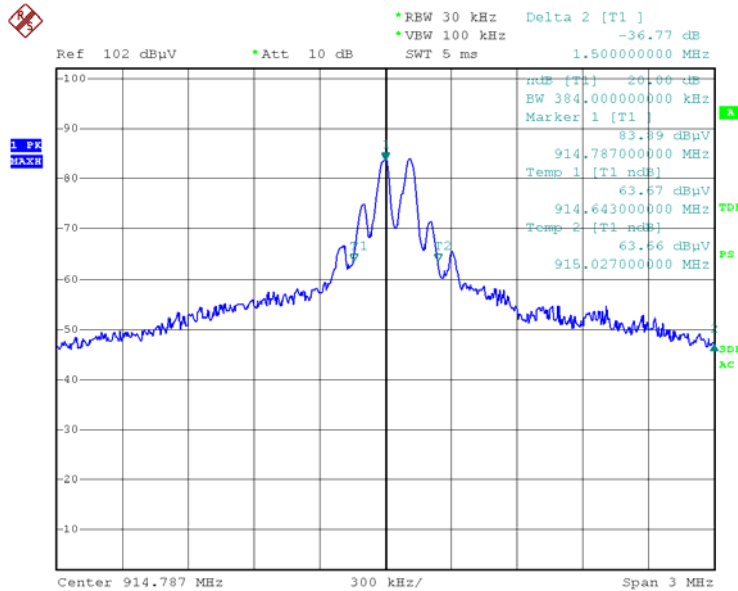
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9.3. Test Results

PASSED.

The testing data was attached in the next pages.



Date: 8.NOV.2011 11:23:47

10.Deviation to test specifications

[NONE]

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