



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3130311-00149-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, 2012	
Report Reference No.	CGZ3130311-00149-E
Date of issue	09 January 2013
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 ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's name	Elite Century Technology Ltd.
Address	Room 1302, 13/F, Mega Trade Center, 1 Mei Wan Street, Tsuen Wan, N. T. Hong Kong
Test specification	
Standard	47 CFR PART 15 OCT, 2012
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	Waterproof Bluetooth Speaker
Trade Mark	NEUTAC
Manufacturer	GuangZhou PanYu Elite Century Electronic Co., Ltd
Model/Type reference	BW-101
Ratings	Battery 3.7V for EUT, AC 120V for Notebook
Operating Frequency	2402MMHz ~2480.00MHz/ GFSK, π/4-DQPSK, 8DPSK
Result	Positive

Compiled by:

Kate zhang / File administrators

Supervised by:

Duke yang / Technique principal

Approved by:

Vincent yao / Manager

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FCC ID -- T E S T R E P O R T

Test Report No. : CGZ3130311-00149-E

09 January 2013

Date of issue

Type / Model..... BW-101

EUT..... Waterproof Bluetooth Speaker

Applicant..... Elite Century Technology Ltd.

Address..... Room 1302, 13/F, Mega Trade Center, 1 Mei Wan Street, Tsuen Wan, N.
T. Hong Kong

Telephone..... +852-26876059

Fax..... +852-26876045

Contact..... Abel Zhao

Manufacturer..... GuangZhou PanYu Elite Century Electronic Co., Ltd.

Address..... /

Telephone..... /

Fax..... /

Contact..... /

Test report holder..... GuangZhou PanYu Elite Century Electronic Co., Ltd.

Address..... /

Telephone..... /

Fax..... /

Contact..... /

Test Result according to the standards on page 1: PASSED

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. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2012
- ANSI C63.4-2009

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	04 January 2013
Testing commenced on	04 ~09 January 2013
Testing concluded on	09 January 2013

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 1.
- ☐ - **does not** fulfil the FCC requirements cited on page 1.

3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ Battery 3.7V for EUT, AC 120V for Notebook

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
- ☐ TX- Y position
- ☐ TX- Z position
- TX- X position
- Charging

Operation mode 1: TX-X Position Low (2402MHz) , TX-X Position Middle (2441MHz) ,
TX-X Position High (2480MHz)

Operation mode 2: Charging

Note: Operation mode 1 TX -X position of EUT is the radiated test worst case; Operation mode 2 Charging is the conducted test 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	:	Waterproof Bluetooth Speaker
Model Number	:	BW-101
Operation frequency	:	2402~ 2480 MHz ISM Band
Radio Technology	:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	:	GFSK, $\pi/4$ -DQPSK, 8DPSK modulation
Antenna	:	PCB antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

3.4.2.1. NoteBook

M/N	:	E40
S/N	:	05788DC
Manufacturer	:	IBM
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
FCC ID	:	ID

3.4.2.2. Mouse

M/N	:	WB365PA
S/N	:	2HTJMB101178717
Manufacturer	:	HP
Data Cable	:	Shielded, Detachable, 1.8m
FCC	:	By DoC

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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.: 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 13,2012.

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	$\pm 1.22\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.38\text{dB}$	(1)
Radiation emission (3m)	30MHz~300MHz	$\pm 3.14\text{dB}$	(1)
	300MHz~1000MHz	$\pm 3.18\text{dB}$	(1)
	1GHz~26.5GHz	$\pm 3.54\text{dB}$	(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 Emission Test	FCC Part 15 : 15.207 ANSI C63.4-2009	PASSED
Radiated Emission Test	FCC Part 15 C: 15.249 FCC Part 15 : 109 ANSI C63.4-2009	PASSED
20 dB Bandwidth test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
N/A is an abbreviation for Not Applicable.		

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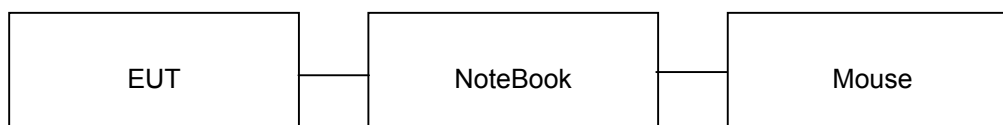
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6. Power Line Conducted Emission Test

6.1. Test Equipment

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2012/11
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2012/11
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2012/11
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2012/11
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2012/11

6.2. Block Diagram of Test Setup



(EUT: Waterproof Bluetooth Speaker)

6.3. Power Line Conducted Emission Test Limits

Standard:RSS-Gen:7.2.4,FCC Part 15 : 15.207,ANSI C63.4-2009

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.

6.4. Test Procedure

The XBOX Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of 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 FCC Part 15C on Conducted Emission Test.

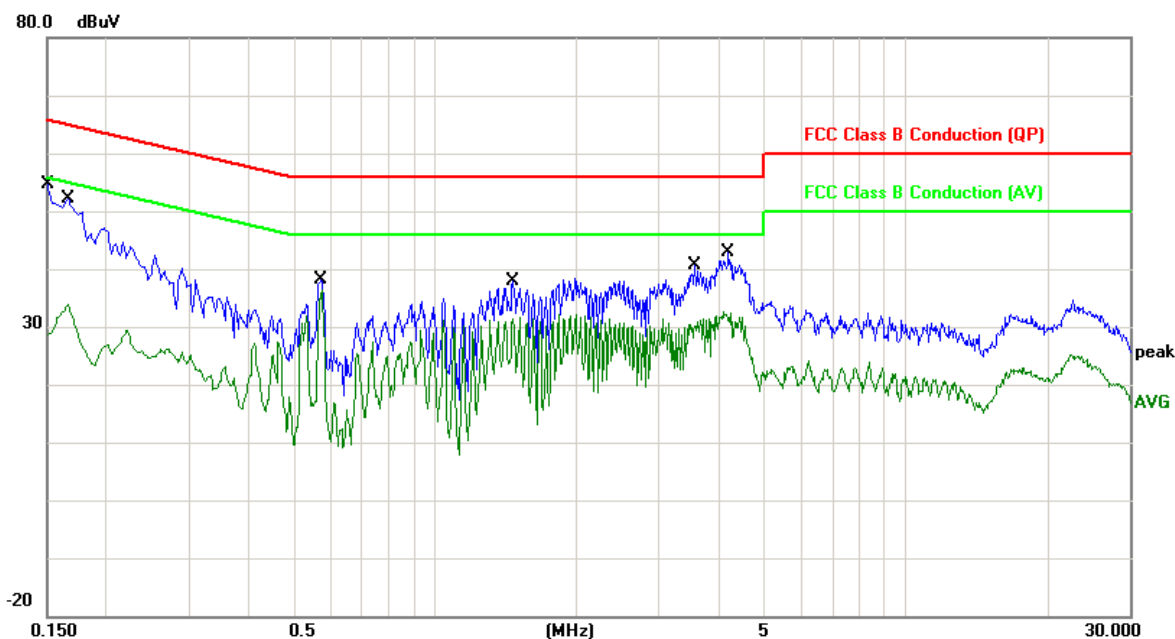
6.5. Power Line Conducted Emission Test Results

PASSED.

The frequency range from 150KHz~30MHz is investigated. Please see the following pages.

Test point:	L	Result:	☒ - passed
Frequency range:	0.15MHz~30MHz		☐ - not passed

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Charging
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-101



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1500	9.99	32.77	42.76	65.99	-23.23	QP
2	0.1500	9.99	20.44	30.43	55.99	-25.56	AVG
3	0.1660	9.99	30.33	40.32	65.15	-24.83	QP
4	0.1660	9.99	14.82	24.81	55.15	-30.34	AVG
5	0.5740	10.04	25.82	35.86	56.00	-20.14	QP
6	0.5740	10.04	23.33	33.37	46.00	-12.63	AVG
7	1.4660	10.10	19.99	30.09	56.00	-25.91	QP
8	1.4660	10.10	14.39	24.49	46.00	-21.51	AVG
9	3.5700	10.06	22.65	32.71	56.00	-23.29	QP
10	3.5700	10.06	16.94	27.00	46.00	-19.00	AVG
11	4.2140	10.08	23.99	34.07	56.00	-21.93	QP
12	4.2140	10.08	17.11	27.19	46.00	-18.81	AVG
Remark: Other frequency mini margin all >10 dB of Limit							

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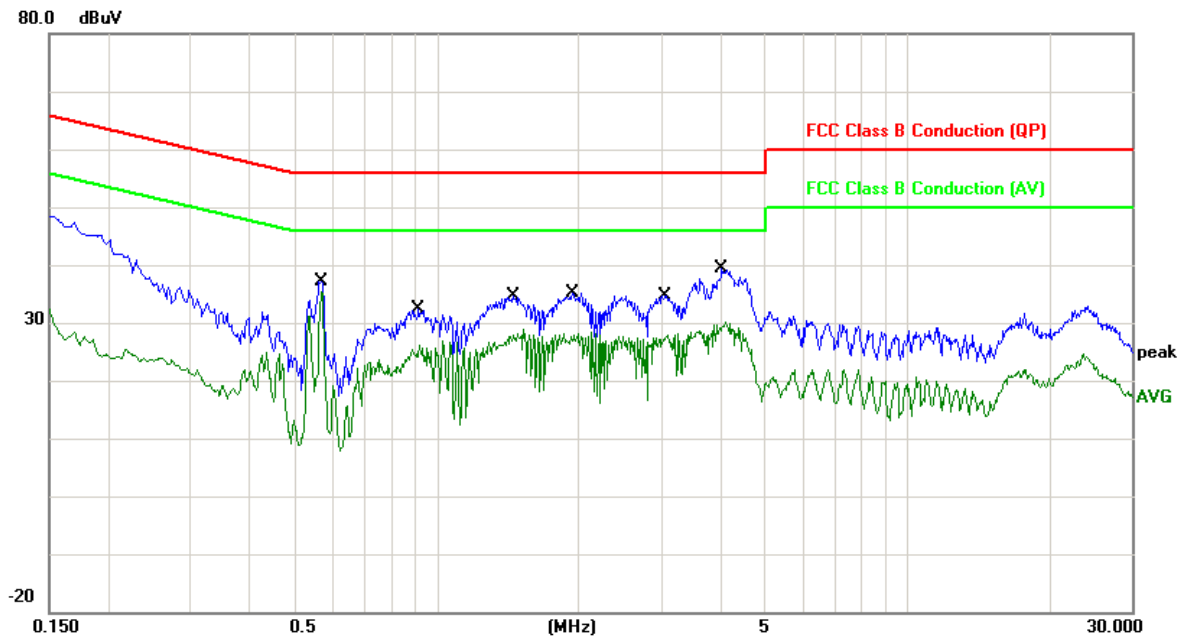
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Test point:	N	Result:	☒ - passed
Frequency range:	0.15MHz~30MHz		☐ - not passed



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.5700	10.04	26.06	36.10	56.00	-19.90	QP
2	0.5700	10.04	23.96	34.00	46.00	-12.00	AVG
3	0.9140	10.11	18.50	28.61	56.00	-27.39	QP
4	0.9140	10.11	14.60	24.71	46.00	-21.29	AVG
5	1.4500	10.10	21.36	31.46	56.00	-24.54	QP
6	1.4500	10.10	17.49	27.59	46.00	-18.41	AVG
7	1.9460	10.08	20.52	30.60	56.00	-25.40	QP
8	1.9460	10.08	15.40	25.48	46.00	-20.52	AVG
9	3.0660	10.03	21.04	31.07	56.00	-24.93	QP
10	3.0660	10.03	16.14	26.17	46.00	-19.83	AVG
11	4.0420	10.08	24.09	34.17	56.00	-21.83	QP
12	4.0420	10.08	18.06	28.14	46.00	-17.86	AVG

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

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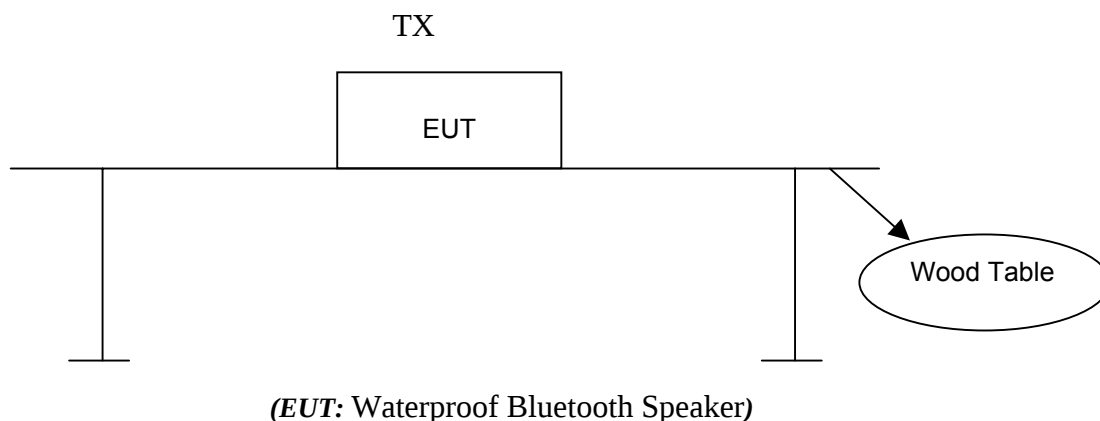
7. Radiated disturbance (electric field)

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	100868	2012/11
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/11
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11

7.2. Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



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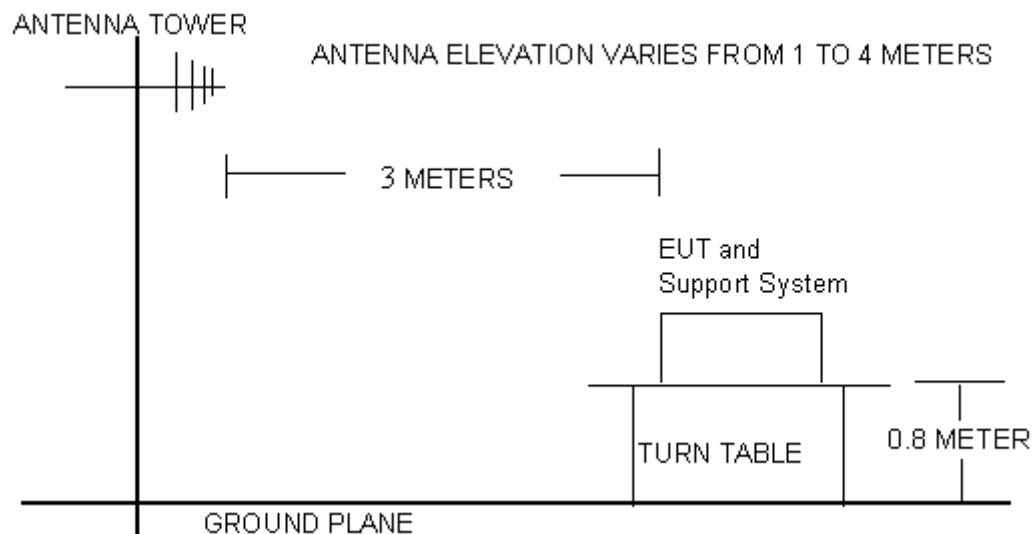
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7.2.2 Anechoic Chamber Setup Diagram



7.3.Radiated Emission Limit :

Standard:FCC 15.249 , 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	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
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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7.4. 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 2MHz 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 2MHz 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

7.5. 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	Result:	☒ - passed
Frequency range:	9KHz~30MHz		☐ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Remark: The test result reading value is to low, margin all > 10dB of the limit.							

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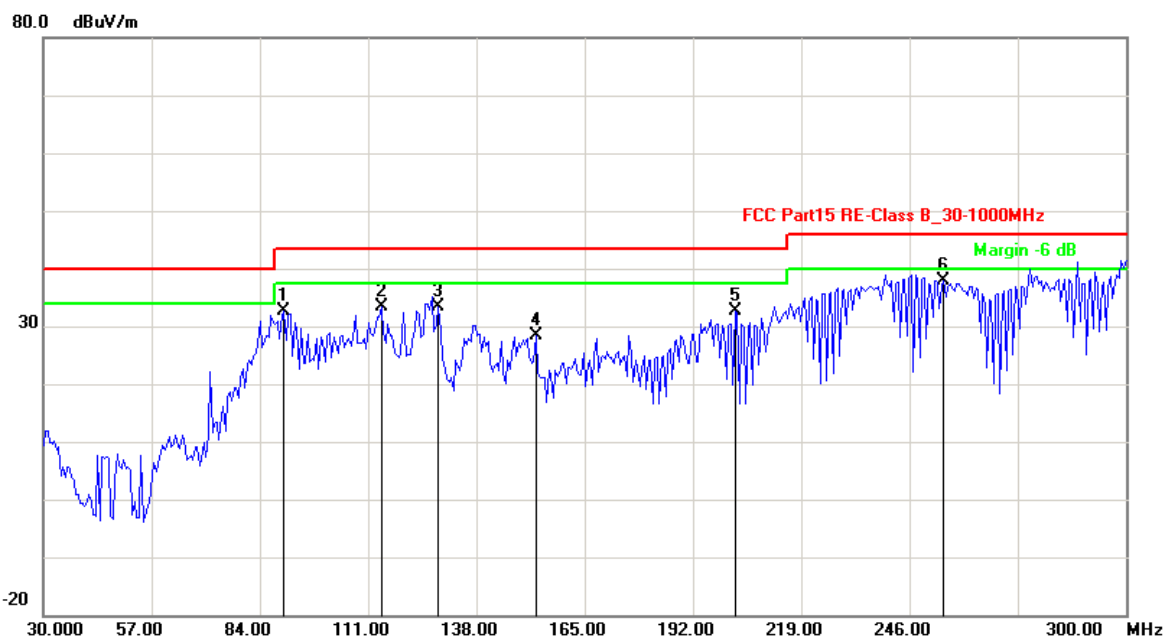
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Channel:	TX -X Position Mode Low 2402MHz	Result:	☒ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-101

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	2.81	88.86	91.67	114.00	-22.33	Peak
2	2402.00	2.81	85.94	88.75	94.00	-5.25	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	90.0601	-22.62	55.26	32.64	43.50	-10.86	QP
2	114.4088	-19.48	52.75	33.27	43.50	-10.23	QP
3	128.4769	-17.22	50.64	33.42	43.50	-10.08	QP
4	152.8256	-17.79	46.11	28.32	43.50	-15.18	QP
5	202.6052	-12.50	45.14	32.64	43.50	-10.86	QP
6	254.5490	-12.70	50.60	37.90	46.00	-8.10	QP

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

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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	319.6393	-18.03	60.30	42.27	46.00	-3.73	QP
2	335.0701	-14.31	55.72	41.41	46.00	-4.59	QP
3	496.3928	-10.08	43.74	33.66	46.00	-12.34	QP
4	600.2004	-10.94	46.65	35.71	46.00	-10.29	QP
5	671.7435	-12.40	45.04	32.64	46.00	-13.36	QP
6	768.5371	-5.69	38.38	32.69	46.00	-13.31	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1661.323	-1.31	47.32	46.01	74.00	-27.99	peak
2	1661.323	-1.31	33.36	32.05	54.00	-21.95	AVG
3	2983.968	6.51	43.70	50.21	74.00	-23.79	peak
4	2983.968	6.51	30.97	37.48	54.00	-16.52	AVG
5	3468.938	8.11	41.94	50.05	74.00	-23.95	peak
6	3468.938	8.11	29.43	37.54	54.00	-16.46	AVG
7	3931.864	9.59	40.14	49.73	74.00	-24.27	peak
8	3931.864	9.59	26.25	35.84	54.00	-18.16	AVG
9	4505.010	11.00	39.19	50.19	74.00	-23.81	peak
10	4505.010	11.00	26.15	37.15	54.00	-16.85	AVG
11	5519.038	13.83	40.10	53.93	74.00	-20.07	peak
12	5519.038	13.83	26.35	40.18	54.00	-13.82	AVG

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

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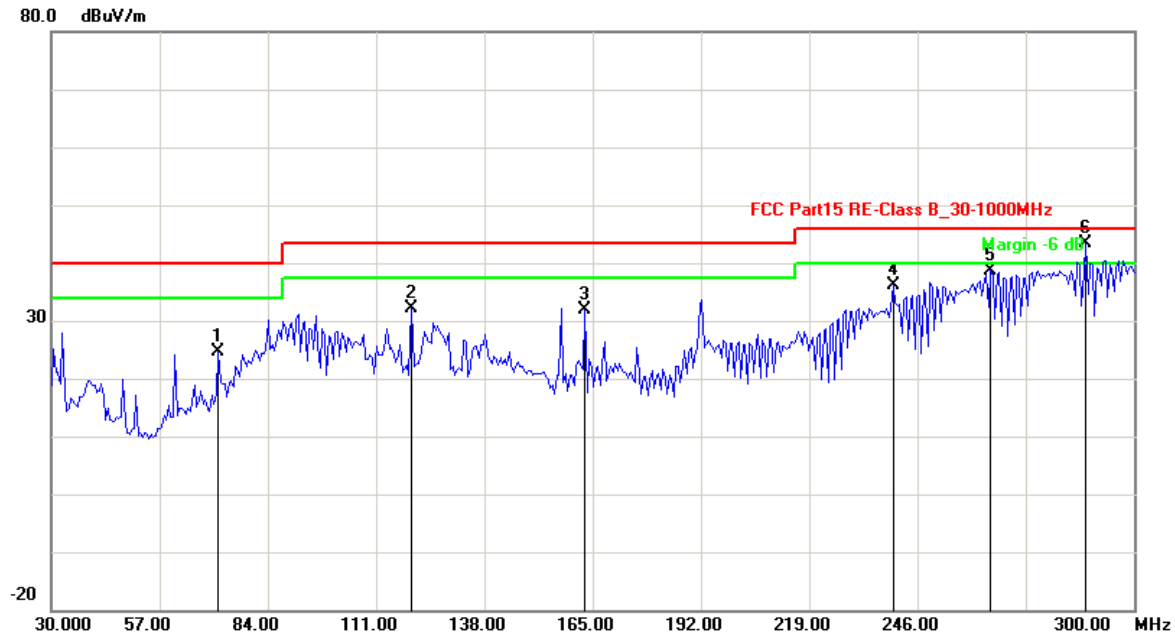
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E-mail: cts@cts-lab.com.cn

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Channel:	TX -X Position Mode Low 2402MHz	Result:	☒ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	2.81	93.13	96.32	114.00	-17.68	Peak
2	2402.00	2.81	88.33	91.52	94.00	-2.48	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	71.6633	-22.57	47.23	24.66	40.00	-15.34	QP
2	119.8196	-18.17	50.40	32.23	43.50	-11.27	QP
3	163.1062	-18.22	50.07	31.85	43.50	-11.65	QP
4	239.9398	-13.13	49.23	36.10	46.00	-9.90	QP
5	264.2885	-12.25	51.00	38.75	46.00	-7.25	QP
6	288.0961	-7.50	50.89	43.39	46.00	-2.61	QP

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

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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	302.8056	-20.55	57.79	37.24	46.00	-8.76	QP
2	365.9319	-14.18	48.97	34.79	46.00	-11.21	QP
3	493.5872	-10.02	44.97	34.95	46.00	-11.05	QP
4	622.6453	-7.14	46.83	39.69	46.00	-6.31	QP
5	747.4950	-6.54	40.83	34.29	46.00	-11.71	QP
6	901.8036	-3.97	36.97	33.00	46.00	-13.00	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1484.970	-1.51	48.02	46.51	74.00	-27.49	peak
2	1484.970	-1.51	33.96	32.45	54.00	-21.55	AVG
3	3226.453	7.33	42.22	49.55	74.00	-24.45	peak
4	3226.453	7.33	29.15	36.48	54.00	-17.52	AVG
5	3953.908	9.66	39.56	49.22	74.00	-24.78	peak
6	3953.908	9.66	26.86	36.52	54.00	-17.48	AVG
7	4637.275	11.31	37.50	48.81	74.00	-25.19	peak
8	4637.275	11.31	24.09	35.40	54.00	-18.60	AVG
9	5430.862	13.55	39.13	52.68	74.00	-21.32	peak
10	5430.862	13.55	26.01	39.56	54.00	-14.44	AVG
11	6114.228	15.66	40.40	56.06	74.00	-17.94	peak
12	6114.228	15.66	26.84	42.50	54.00	-11.50	AVG

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

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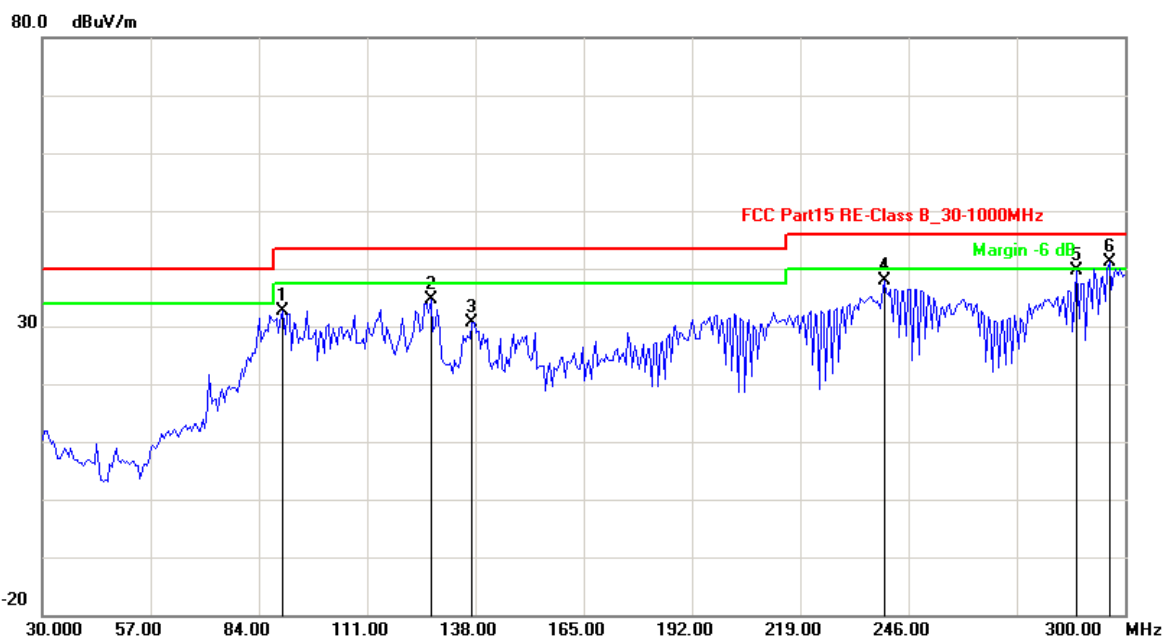
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Channel:	TX-X Position Mode Middle 2441MHz	Result:	☒ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-101

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2441	3.19	88.35	91.84	114	-22.16	peak
2	2441	3.19	85.60	88.79	94	-5.21	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	90.0601	-22.62	55.26	32.64	43.50	-10.86	QP
2	126.8537	-17.40	52.06	34.66	43.50	-8.84	QP
3	137.1342	-16.57	47.32	30.75	43.50	-12.75	QP
4	239.9398	-13.13	50.92	37.79	46.00	-8.21	QP
5	288.0961	-7.50	47.14	39.64	46.00	-6.36	QP
6	296.2124	-6.13	47.23	41.10	46.00	-4.90	QP

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

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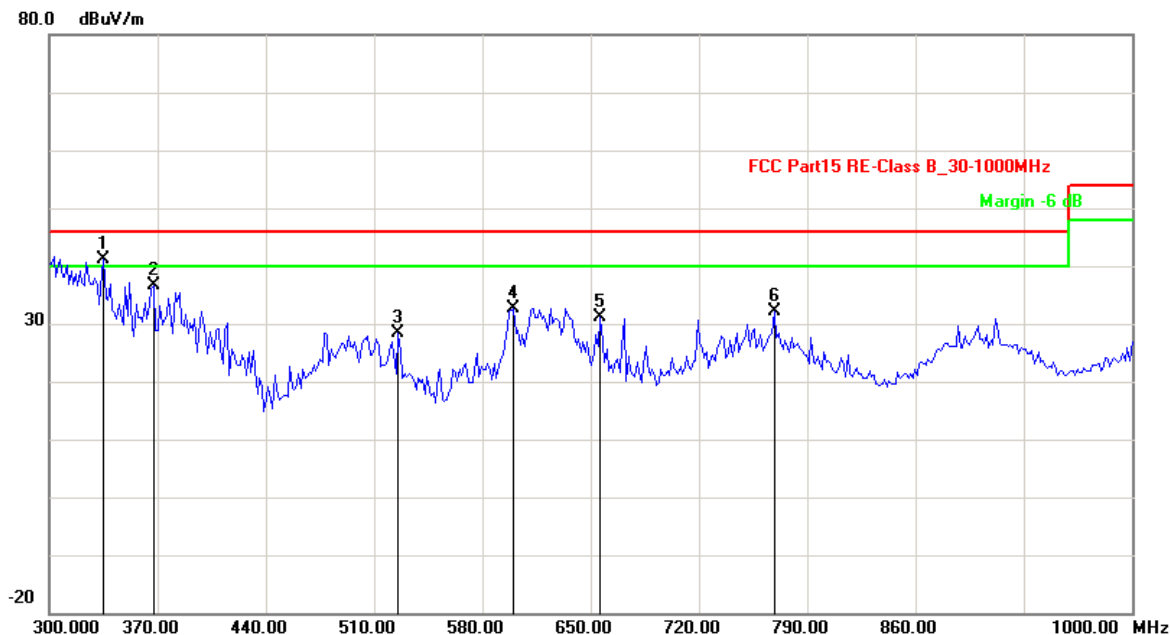
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	335.0701	-14.31	55.36	41.05	46.00	-4.95	QP
2	367.3347	-14.25	50.98	36.73	46.00	-9.27	QP
3	525.8517	-13.55	41.99	28.44	46.00	-17.56	QP
4	600.2004	-10.94	43.63	32.69	46.00	-13.31	QP
5	656.3126	-10.25	41.33	31.08	46.00	-14.92	QP
6	768.5371	-5.69	37.91	32.22	46.00	-13.78	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1595.190	-1.34	48.06	46.72	74.00	-27.28	peak
2	1595.190	-1.34	34.79	33.45	54.00	-20.55	AVG
3	2983.968	6.51	44.75	51.26	74.00	-22.74	peak
4	2983.968	6.51	32.16	38.67	54.00	-15.33	AVG
5	3292.585	7.54	42.84	50.38	74.00	-23.62	peak
6	3292.585	7.54	29.91	37.45	54.00	-16.55	AVG
7	4284.569	10.48	38.88	49.36	74.00	-24.64	peak
8	4284.569	10.48	25.87	36.35	54.00	-17.65	AVG
9	5056.112	12.34	38.46	50.80	74.00	-23.20	peak
10	5056.112	12.34	25.84	38.18	54.00	-15.82	AVG
11	5717.435	14.47	39.15	53.62	74.00	-20.38	peak
12	5717.435	14.47	25.77	40.24	54.00	-13.76	AVG

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

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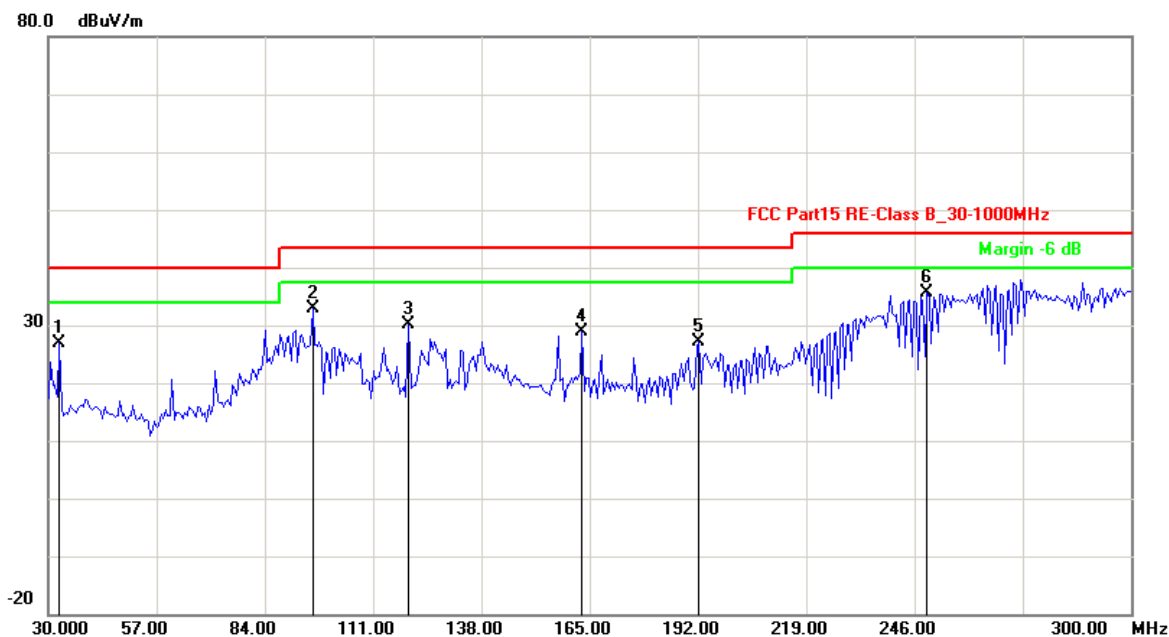
Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Channel:	TX -X Position Mode Middle 2441MHz	Result:	☒ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2441	3.19	92.57	96.14	114	-17.86	peak
2	2441	3.19	87.86	91.43	94	-2.57	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.7054	-23.95	50.86	26.91	40.00	-13.09	QP
2	96.0120	-23.23	56.06	32.83	43.50	-10.67	QP
3	119.8196	-18.17	48.40	30.23	43.50	-13.27	QP
4	163.1062	-18.22	47.07	28.85	43.50	-14.65	QP
5	192.3246	-12.16	39.25	27.09	43.50	-16.41	QP
6	249.1382	-12.80	48.32	35.52	46.00	-10.48	QP

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

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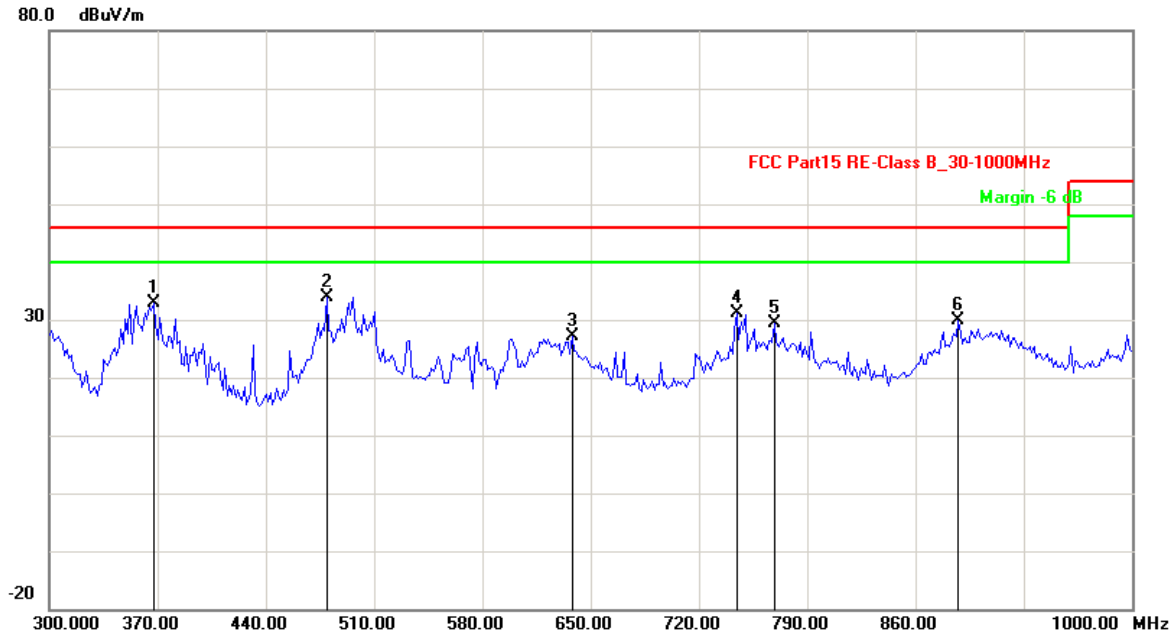
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	367.3347	-14.25	47.07	32.82	46.00	-13.18	QP
2	479.5591	-9.77	43.58	33.81	46.00	-12.19	QP
3	638.0762	-7.56	34.58	27.02	46.00	-18.98	QP
4	744.6894	-6.78	37.86	31.08	46.00	-14.92	QP
5	768.5371	-5.69	35.10	29.41	46.00	-16.59	QP
6	887.7756	-4.55	34.36	29.81	46.00	-16.19	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1484.970	-1.51	47.25	45.74	74.00	-28.26	peak
2	1484.970	-1.51	33.77	32.26	54.00	-21.74	AVG
3	2829.659	5.64	43.45	49.09	74.00	-24.91	peak
4	2829.659	5.64	30.01	35.65	54.00	-18.35	AVG
5	3072.144	6.83	42.81	49.64	74.00	-24.36	peak
6	3072.144	6.83	29.40	36.23	54.00	-17.77	AVG
7	3667.335	8.74	40.88	49.62	74.00	-24.38	peak
8	3667.335	8.74	27.73	36.47	54.00	-17.53	AVG
9	4306.613	10.53	38.91	49.44	74.00	-24.56	peak
10	4306.613	10.53	25.75	36.28	54.00	-17.72	AVG
11	4923.848	11.98	38.67	50.65	74.00	-23.35	peak
12	4923.848	11.98	25.61	37.59	54.00	-16.41	AVG

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

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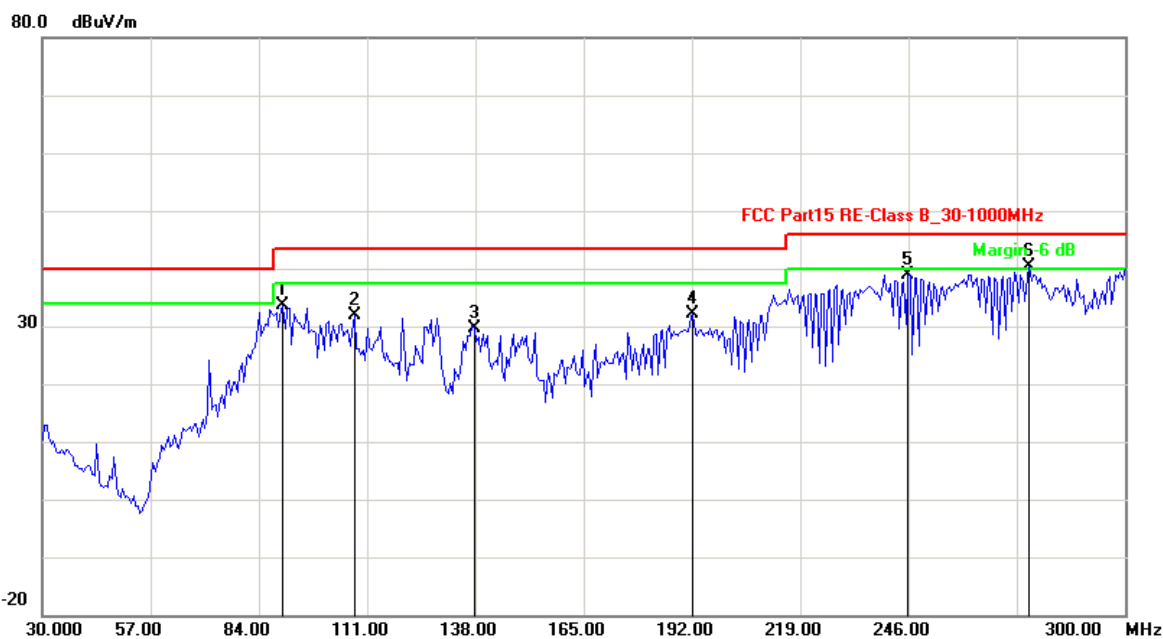
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Channel:	TX -X Position Mode High 2480MHz	Result:	☒ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-101

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480	3.57	88.93	92.50	114	-23.50	peak
2	2480	3.57	85.44	89.01	94	-4.99	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	90.0601	-22.62	56.26	33.64	43.50	-9.86	QP
2	107.9158	-21.09	52.98	31.89	43.50	-11.61	QP
3	137.6753	-16.54	46.06	29.52	43.50	-13.98	QP
4	192.3246	-12.16	44.40	32.24	43.50	-11.26	QP
5	245.8917	-12.92	51.83	38.91	46.00	-7.09	QP
6	276.1923	-10.26	50.76	40.50	46.00	-5.50	QP

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

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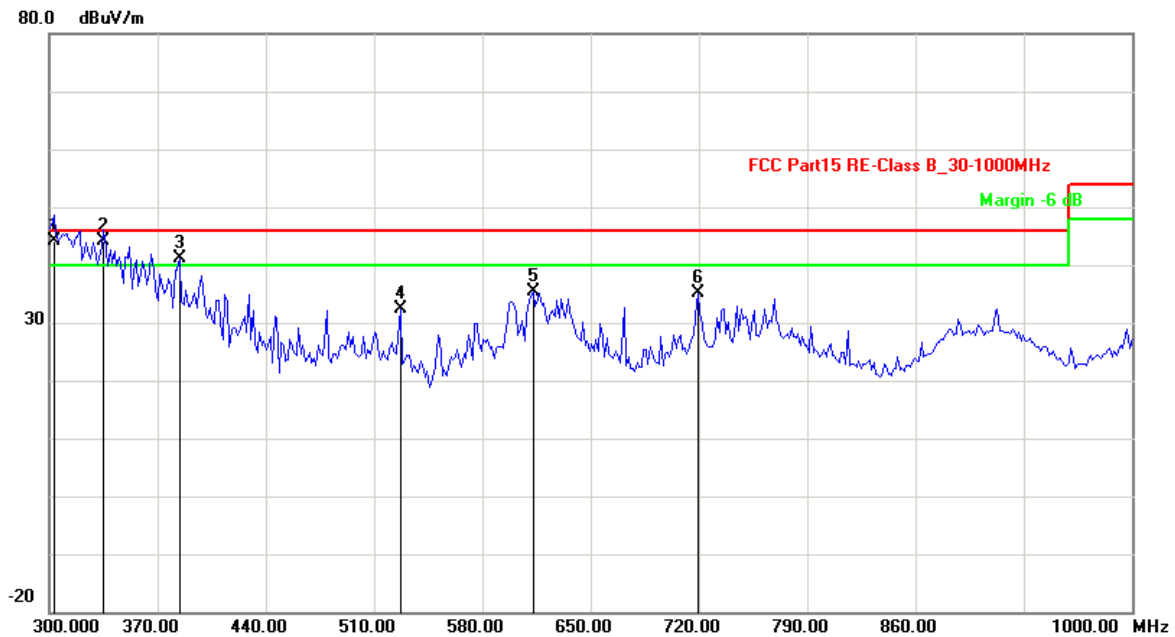
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	302.8056	-20.55	63.69	43.14	46.00	-2.86	QP
2	335.0701	-14.31	57.55	43.24	46.00	-2.76	QP
3	384.1683	-14.90	56.05	41.15	46.00	-4.85	QP
4	527.2545	-13.65	46.03	32.38	46.00	-13.62	QP
5	612.8257	-8.47	43.86	35.39	46.00	-10.61	QP
6	719.4389	-11.18	46.34	35.16	46.00	-10.84	QP
Remark: Other frequency mini margin all >10 dB of Limit							

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1595.190	-1.34	49.19	47.85	74.00	-26.15	peak
2	1595.190	-1.34	37.02	35.68	54.00	-18.32	AVG
3	2983.968	6.51	43.23	49.74	74.00	-24.26	peak
4	2983.968	6.51	29.96	36.47	54.00	-17.53	AVG
5	3336.673	7.68	42.27	49.95	74.00	-24.05	peak
6	3336.673	7.68	29.15	36.83	54.00	-17.17	AVG
7	3931.864	9.59	39.92	49.51	74.00	-24.49	peak
8	3931.864	9.59	25.70	35.29	54.00	-18.71	AVG
9	4879.760	11.88	37.88	49.76	74.00	-24.24	peak
10	4879.760	11.88	23.80	35.68	54.00	-18.32	AVG
11	5563.126	13.97	39.25	53.22	74.00	-20.78	peak
12	5563.126	13.97	26.42	40.39	54.00	-13.61	AVG
Remark: Other frequency mini margin all >10 dB of Limit							

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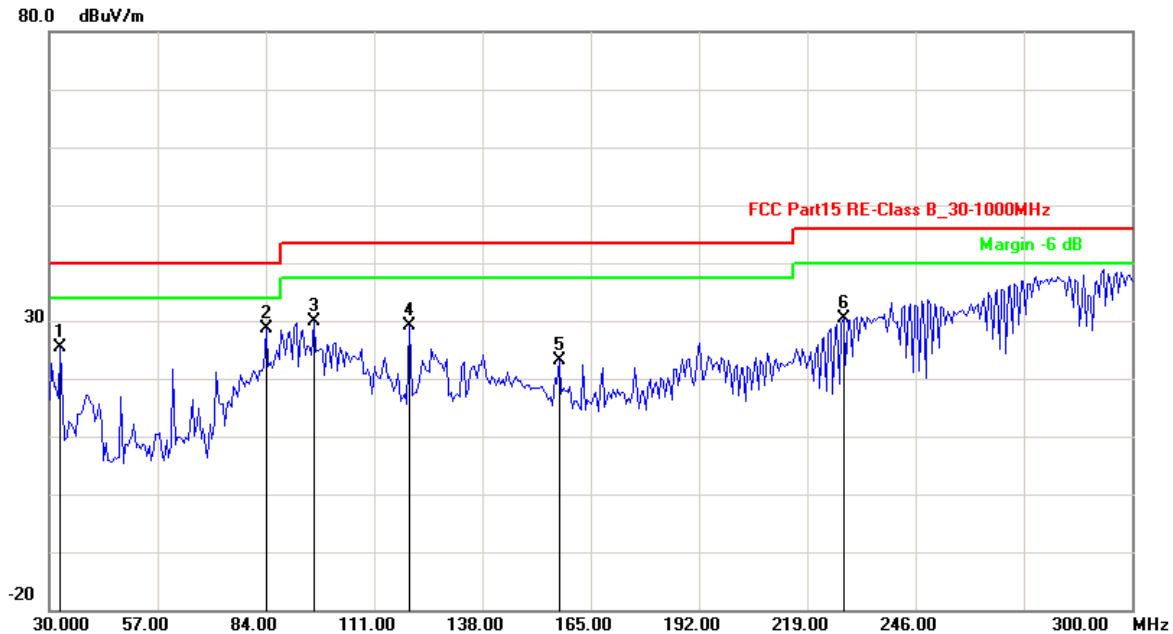
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E-mail: cts@cts-lab.com.cn

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Channel:	TX -X Position Mode High 2480MHz	Result:	☒ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480	3.57	96.14	96.14	114	-17.86	peak
2	2480	3.57	91.02	91.63	94	-2.37	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.7054	-23.95	49.36	25.41	40.00	-14.59	QP
2	84.1082	-22.31	50.88	28.57	40.00	-11.43	QP
3	96.0120	-23.23	53.06	29.83	43.50	-13.67	QP
4	119.8196	-18.17	47.40	29.23	43.50	-14.27	QP
5	157.1543	-18.48	41.55	23.07	43.50	-20.43	QP
6	228.0360	-12.36	42.83	30.47	46.00	-15.53	QP

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

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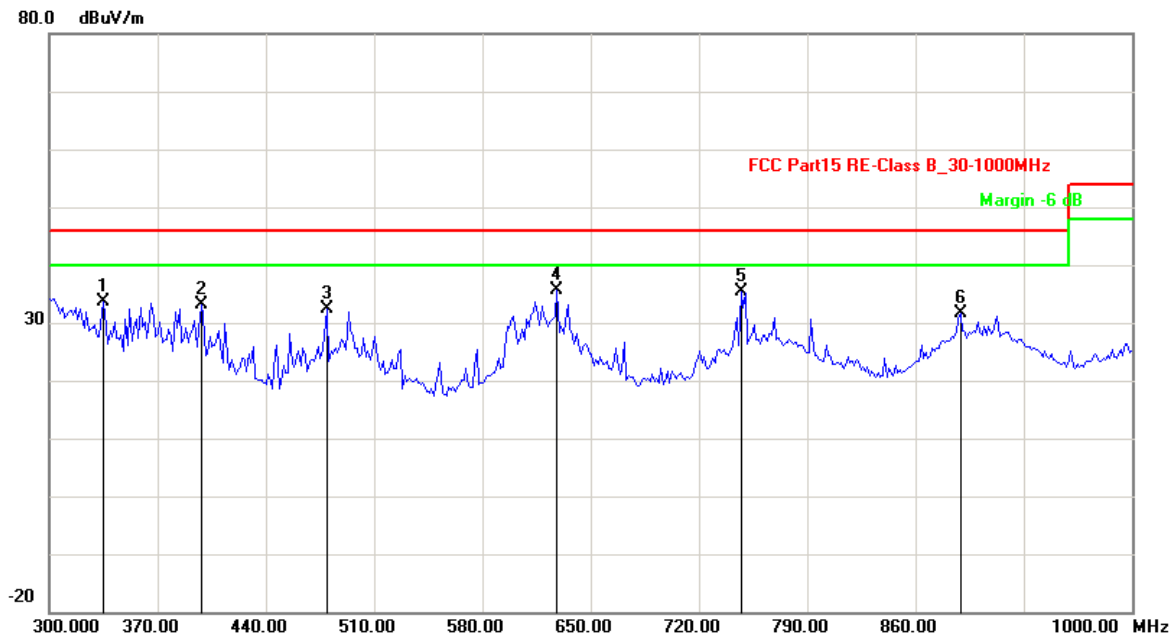
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	335.0701	-14.31	47.86	33.55	46.00	-12.45	QP
2	398.1964	-15.01	48.23	33.22	46.00	-12.78	QP
3	479.5591	-9.77	42.23	32.46	46.00	-13.54	QP
4	628.2565	-7.29	42.89	35.60	46.00	-10.40	QP
5	747.4950	-6.54	41.82	35.28	46.00	-10.72	QP
6	889.1784	-4.47	36.10	31.63	46.00	-14.37	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1484.970	-1.51	47.74	46.23	74.00	-27.77	peak
2	1484.970	-1.51	33.78	32.27	54.00	-21.73	AVG
3	2939.880	6.26	43.15	49.41	74.00	-24.59	peak
4	2939.880	6.26	29.22	35.48	54.00	-18.52	AVG
5	3204.409	7.26	42.40	49.66	74.00	-24.34	peak
6	3204.409	7.26	27.30	34.56	54.00	-19.44	AVG
7	3865.731	9.38	40.31	49.69	74.00	-24.31	peak
8	3865.731	9.38	27.11	36.49	54.00	-17.51	AVG
9	4615.230	11.26	38.41	49.67	74.00	-24.33	peak
10	4615.230	11.26	24.02	35.28	54.00	-18.72	AVG
11	5364.729	13.33	38.58	51.91	74.00	-22.09	peak
12	5364.729	13.33	25.43	38.76	54.00	-15.24	AVG

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

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9. Band Edge Compliance test

9.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2012/11
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11

9.2. Test Information

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-101

9.3. Test procedure

- 1、 The EUT operates at hopping-off test mode. The lowest or highest channels 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 hopping-on test mode to verify the largest spurious emissions power.

9.4. Test Results

PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

Test Mode	Channel Marked Frequency	Test Result Highest Emission (dBuv/m)			
		Horizontal		Vertical	
		Peak	Average	Peak	Average
Low Channel	2390MHz	39.33	28.05	39.64	28.56
	2400MHz	67.02	62.32	70.37	65.20
High Channel	2483.5MHz	52.13	49.01	55.45	50.98
	2500MHz	37.75	27.62	38.99	27.69

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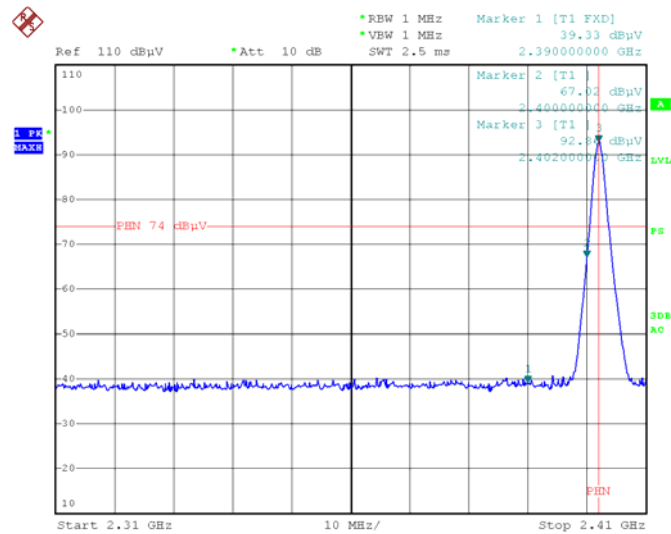
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Band Edges(CH Low)
Detector mode:Peak

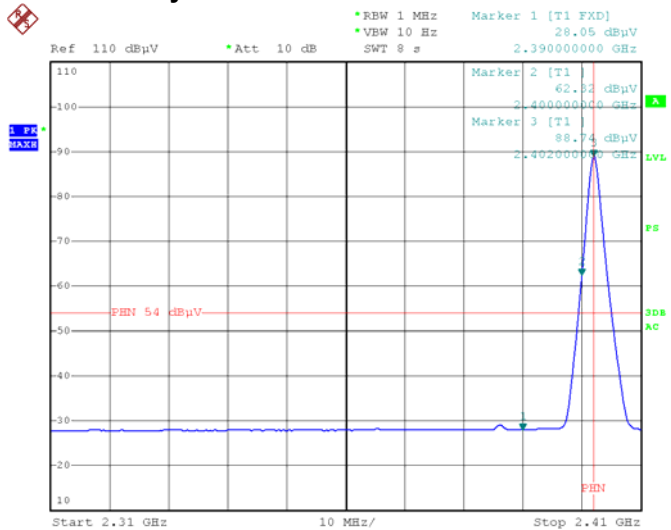
Polarity:Horizontal



Date: 20.MAR.2013 13:05:05

Band Edges(CH Low)
Detector mode: Average

Polarity: Horizontal



Date: 20.MAR.2013 13:01:45

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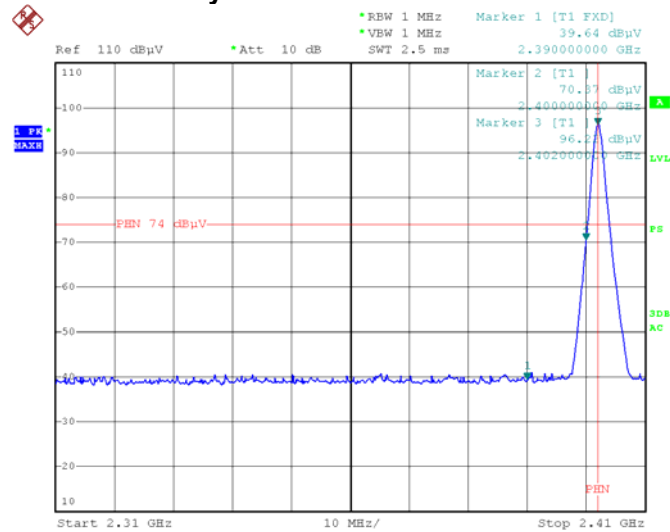
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Band Edges(CH Low)
Detector mode:Peak

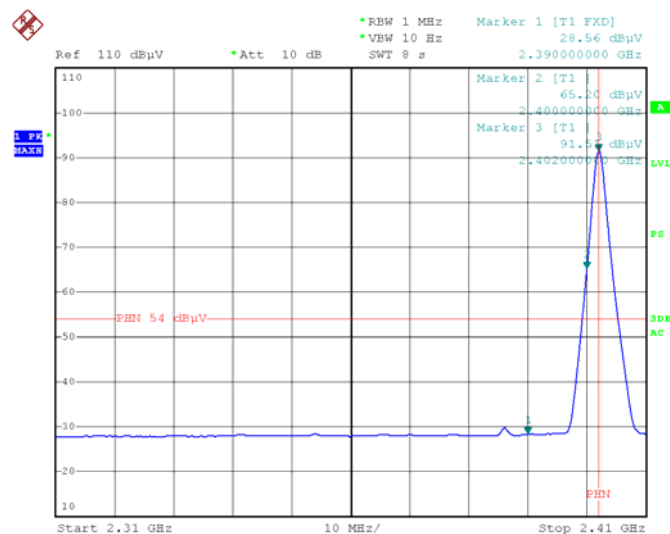
Polarity:Vertical



Date: 20.MAR.2013 13:05:31

Band Edges(CH Low)
Detector mode:Average

Polarity:Vertical



Date: 20.MAR.2013 13:04:28

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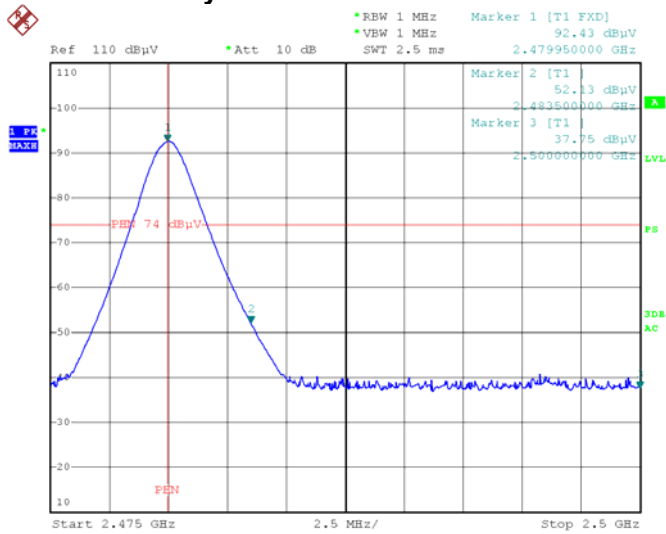
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Band Edges(CH High)
Detector mode:Peak

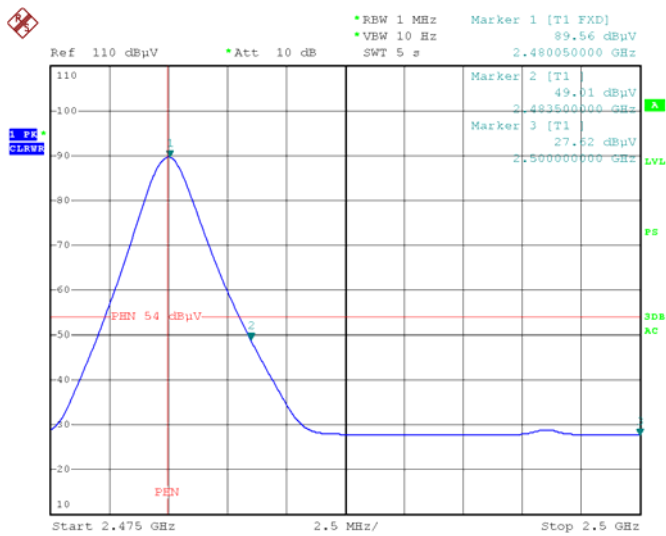
Polarity:Horizontal



Date: 20.MAR.2013 11:33:16

Band Edges(CH High)
Detector mode:Average

Polarity:Horizontal



Date: 20.MAR.2013 11:40:25

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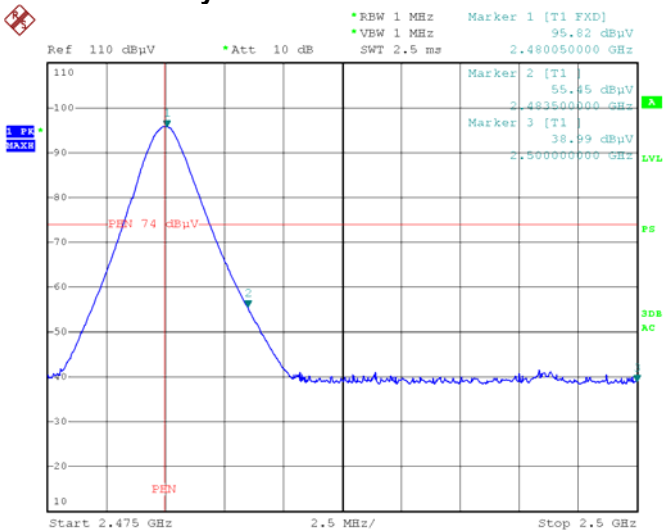
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Band Edges(CH High)
Detector mode:Peak

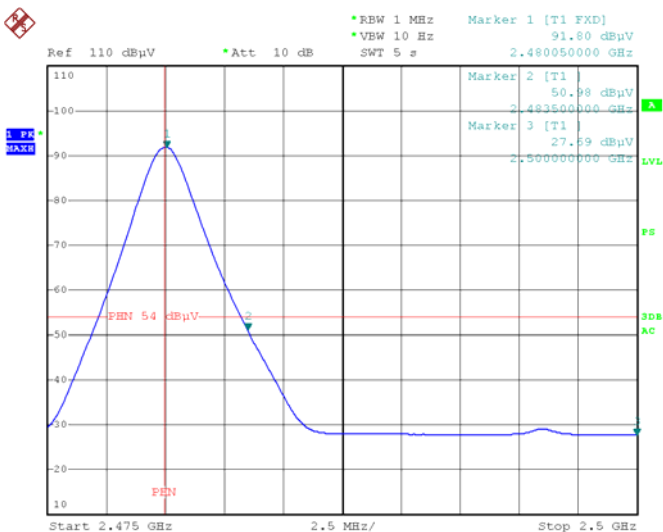
Polarity:Vertical



Date: 20.MAR.2013 11:34:28

Band Edges(CH High)
Detector mode:Average

Polarity:Vertical



Date: 20.MAR.2013 11:38:26

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10. 20 dB Bandwidth test

10.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2011/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2011/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12

10.2. Test Information

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-101

10.3. Test Results

PASSED.

The testing data was attached in the next pages.

Channel		Frequency (MHz)	20dB Bandwidth (MHz)
Low	GFSK 1M	2402	0.846
Middle		2441	0.840
High		2480	0.840
Low	$\pi/4$ -DQPSK 2M	2402	1.236
Middle		2441	1.236
High		2480	1.236
Low	8DPSK 3M	2402	1.266
Middle		2441	1.266
High		2480	1.266

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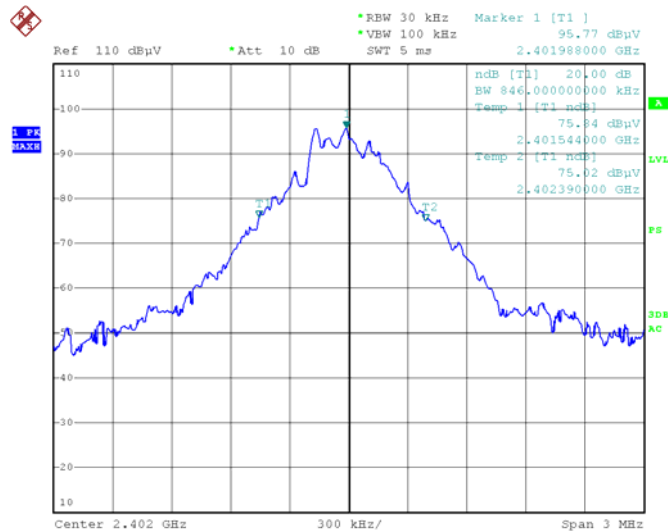
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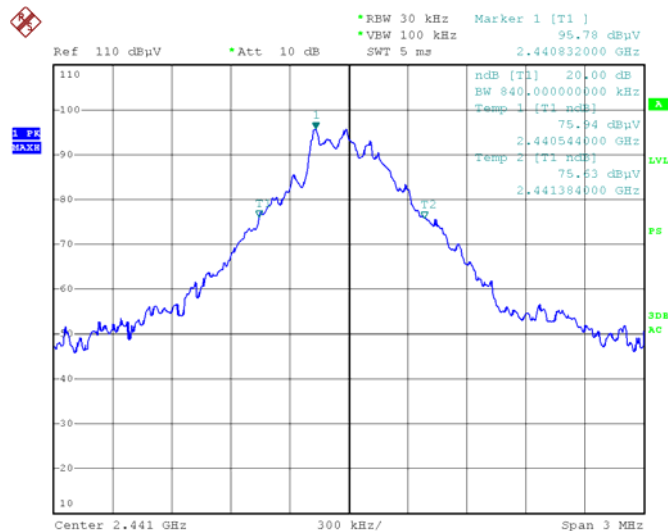
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20 dB Bandwidth (2402 MHz GFSK 1M)

Date: 27.MAR.2013 11:48:13

20 dB Bandwidth (2441MHz GFSK 1M)

Date: 27.MAR.2013 11:52:10

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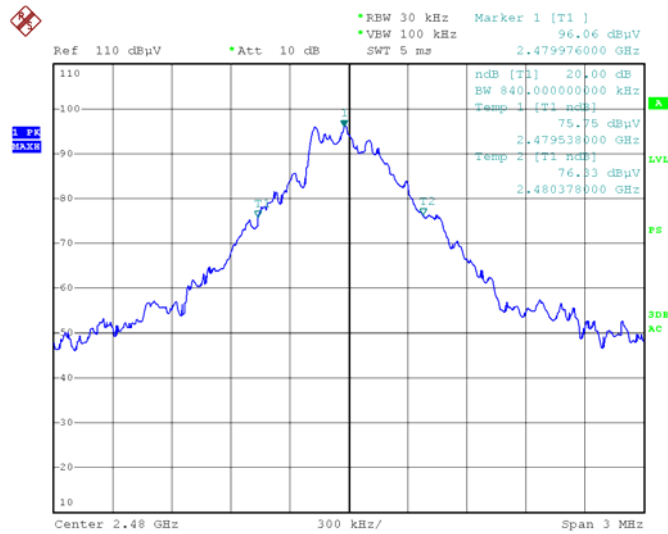
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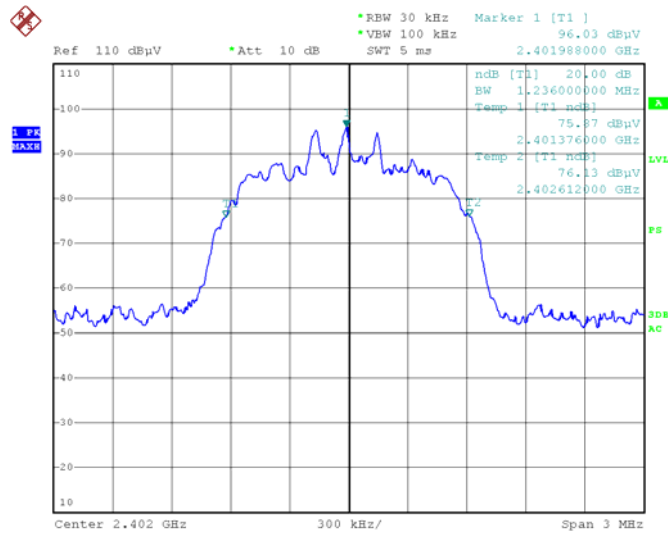
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20 dB Bandwidth (2480MHz GFSK 1M)

Date: 27.MAR.2013 11:57:01

20 dB Bandwidth (2402 MHz, $\pi/4$ -DQPSK 2M)

Date: 27.MAR.2013 11:49:43

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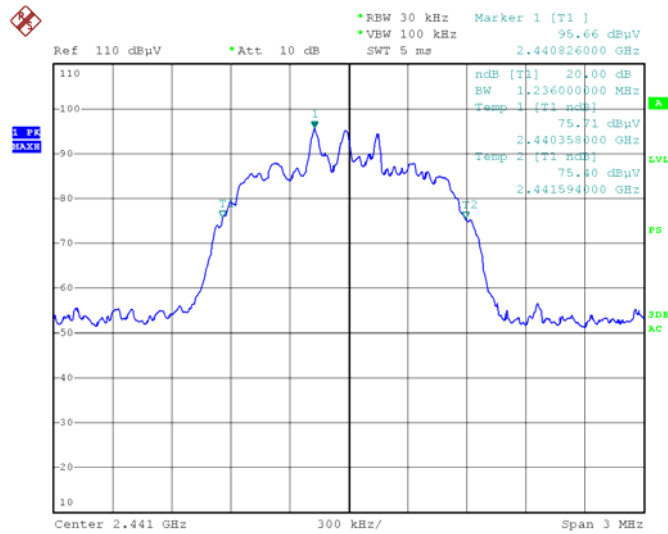
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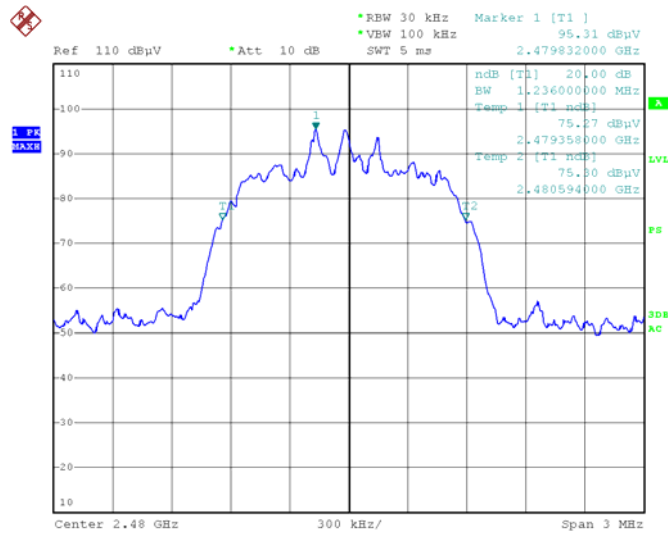
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20 dB Bandwidth (2441 MHz, $\pi/4$ -DQPSK 2M)

Date: 27.MAR.2013 11:54:02

20 dB Bandwidth (2480 MHz, $\pi/4$ -DQPSK 2M)

Date: 27.MAR.2013 11:58:15

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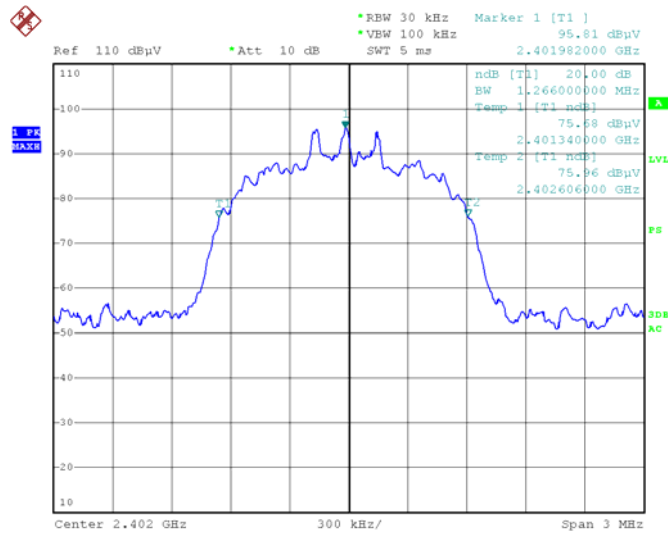
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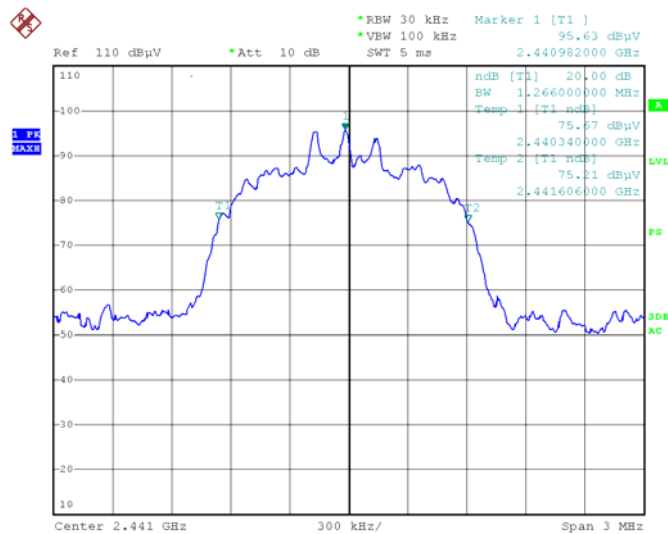
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20 dB Bandwidth (2402 MHz, 8DPSK 3M)

Date: 27.MAR.2013 11:50:47

20 dB Bandwidth (2441 MHz, 8DPSK 3M)

Date: 27.MAR.2013 11:54:59

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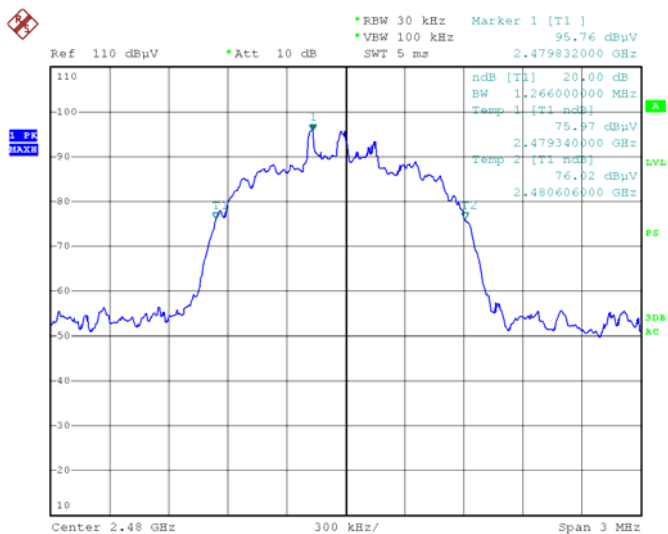
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20 dB Bandwidth (2480 MHz, 8DPSK 3M)



Date: 27.MAR.2013 12:00:10

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11.Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: **Waterproof Bluetooth Speaker**
Model name: **BW-101**

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