FCC ID TEST REPORT

for

bluetooth MINI-SPeaker

MODEL: C1BR, C1BR, C7BR

FCC ID: ZCT-C1BR

Test Report Number: WSCT110070220E Issued Date: March 16, 2011

Issued for

shenzhen akun electronic co;ltd.

Floor 3, Third Building, No.3, Fu'an Industrial Park, Dayangtian Development Zone, Fuyong, shenzhen

Issued By:

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Issued: March 16, 2011

Revised:None

Revision History Of Report

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	WSCT110070220E	Initial Issue	ALL	Kallen Wang

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TEST CERTIFICATION

Product: bluetooth MINI-SPeaker Model: C1BR, C1BR, C7BR

Applicant: shenzhen akun electronic co;ltd.

Floor 3, Third Building, No.3, Fu'an Industrial Park, Dayangtian Development

Zone, Fuyong, shenzhen

Factory: shenzhen akun electronic co;ltd.

Floor 3, Third Building, No.3, Fu'an Industrial Park, Dayangtian Development

Zone, Fuyong, shenzhen

Trade Mark: N/A

Tested: March 6~16, 2011

Test Voltage: PC 5.0 V

Applicable FCC Part 15:Subpart C Standards:

ANSI C63.4:2003

The above equipment has been tested by World Standardization Certification & Testing Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Dewis Shou	Date:	March 16, 2011
	(Davis zhou)		
	Sulpemo		
Check By:		Date:	March 16, 2011
	(Mike mo)		
	Calcarras		
Approved B	y:	Date:	March 16, 2011
	(Kallen Wang)		

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2 TEST RESULT SUMMARY

Standard	Item	Result
FCC Part 15 Subpart C:	Conducted emission Test	PASS
Clause 15.249	Radiation Emission Test	PASS
	Band Edge Test	PASS

Note: 1. The test result judgment is decided by the limit of test standard

2. The information of measurement uncertainty is available upon the customer's request.

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3 EUT DESCRIPTION

Product	bluetooth MINI-SPeaker		
Trade Mark	N/A		
Model	C1BR, C1BR, C7BR		
Applicant	shenzhen akun electronic co;ltd.		
Serial Number	N/A		
Antenna Type	SMD Antenna		
EUT Power Rating	PC 5.0 V		
Temperature Range(Operating)	+15 ~+ 35℃		
Operating Frequency	2402MHz to 2480MHz		
Number of Channels	79 Channels		

Note: N/A stand for no applicable.

Models difference

No.	Model No.
1	C1BR
2	C1BR
3	C7BR

Note: C1BR is tested model, other models are derivative models, The models are identical in circuit and PCB layout, only different on model name, appearance and color temperature, So the test data of C1BR can represent the remaining models

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TEST METHODOLOGY

4.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the below additional components, and configuration, which produced the worst emission levels, was selected and recorded in this report.

The measurement was performed at 3 axis for lie orientation, side orientation and stand orientation. The lie orientation is the worst mode, so only the worst mode test data was reported.

The following test mode was recorder in this report.

Test item	Test mode	
Conducted emission Test	OPERATING	
Radiation Emission Test	CH1, CH40, CH79	
Band Edge Test	CH1, CH79,	

4.2. EUT SYSTEM OPERATION

- 1. Set up EUT with the support equipments.
- 2. Make sure the EUT transmitting continously during the test.

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5 SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

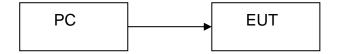
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Manufacturer	Description	Model	Serial Number	FCC
IBM	PC	ThinkCentre A50	99Y5681	DoC

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST



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6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at

Building A, Baoshi Road, Baoshi Science & Technology Park, Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC (The certificate registration number is 131628)		
	TIMCO (The certificate registration number is Q2001)		
Germany	TUV Rheinland		
Canada	INDUSTRY CANADA		
	(The certificated registration number is 46405-7700)		
China	CNAS (The certificated registration number is		
	L3732)		

Copies of granted accreditation certificates are available for downloading from our web site, http://www.wsct.org.cn

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency		Uncertainty
Conducted emissions	9kHz~30MHz		+/- 3.59dB
	l Horizontal	30MHz ~ 200MHz	+/- 4.77dB
Radiated emissions		200MHz ~1000MHz	+/- 4.93dB
	Vertical	30MHz ~ 200MHz	+/- 5.04dB
	vertical	200MHz ~1000MHz	+/- 4.93dB

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

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7 TEST REQUIREMENTS

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. LIMITS

FREQUENCY (MHz)	Class B (dBuV)		
PREQUENCT (MINZ)	Quasi-peak	Average	
0.15 - 0.5	66 - 56	56 - 46	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESCI	100005	06/23/2011	
LISN	AFJ	LS16	16010222119	09/29/2011	
LISN(EUT)	Mestec	AN3016	04/10040	09/28/2011	

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

7.1.3. TEST PROCEDURES

The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1 m separating the EUT from the AMN was folded back and forth parallel to the lead so as to form a bundle with a length of 0.3m to 0.4m. The EUT was kept 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

The bandwidth of the test receiver (ESCI) was set at 9KHz.

The frequency range from 150 KHz to 30 MHz was investigated.

The test data of the worst-case condition(s) was recorded.

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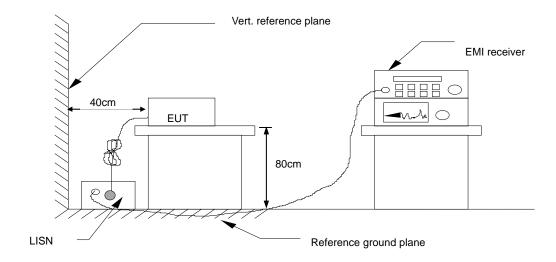
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^{2.} N.C.R = No Calibration Request.



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7.1.4. TEST SETUP



For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

7.1.5.Test Result

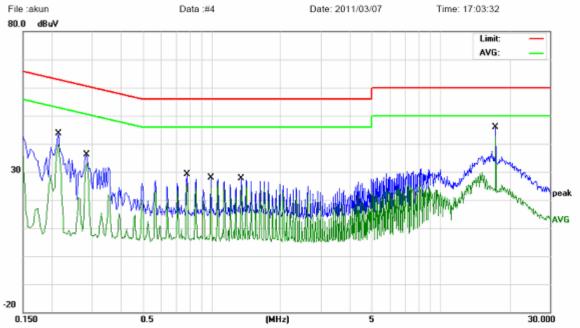
PASS



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Site 843 Shielded Room

Limit: FCC Part15 B Conduction(QP)

EUT: MINI-Speaker

Phase: Power: Ν

Temperature:

Humidity: 55 %

M/N: C1BR

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1	0.2140	30.47	10.35	40.82	63.04	-22.22	QP	
2	0.2140	29.13	10.35	39.48	53.04	-13.56	AVG	
3	0.2860	22.71	10.60	33.31	60.64	-27.33	QP	
4	0.2860	21.97	10.60	32.57	50.64	-18.07	AVG	
5	0.7820	15.80	10.57	26.37	56.00	-29.63	QP	
6	0.7820	15.22	10.57	25.79	46.00	-20.21	AVG	
7	0.9940	14.40	10.53	24.93	56.00	-31.07	QP	
8	0.9940	13.41	10.53	23.94	46.00	-22.06	AVG	
9	1.3500	13.59	10.51	24.10	56.00	-31.90	QP	
10	1.3500	13.14	10.51	23.65	46.00	-22.35	AVG	
11	17.4420	34.54	10.47	45.01	60.00	-14.99	QP	
12 *	17.4420	29.34	10.47	39.81	50.00	-10.19	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only

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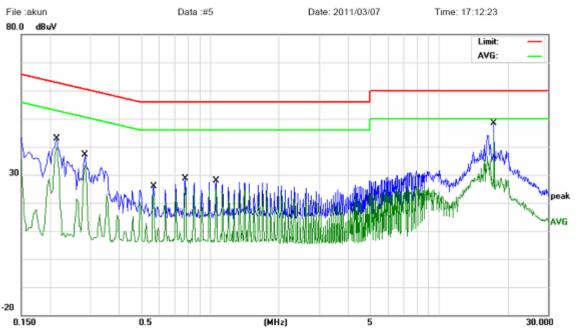
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Site 843 Shielded Room

Limit: EN55022 Class B Conduction(QP)

EUT: MINI-Speaker

M/N: C1BR

Phase: L Temperature: 26

Power: Humidity: 60 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2140	30.42	10.35	40.77	63.04	-22.27	QP	
2	0.2140	29.11	10.35	39.46	53.04	-13.58	AVG	
3	0.2860	22.50	10.60	33.10	60.64	-27.54	QP	
4	0.2860	21.84	10.60	32.44	50.64	-18.20	AVG	
5	0.5700	12.26	10.61	22.87	56.00	-33.13	QP	
6	0.5700	11.38	10.61	21.99	46.00	-24.01	AVG	
7	0.7820	15.77	10.57	26.34	56.00	-29.66	QP	
8	0.7820	15.17	10.57	25.74	46.00	-20.26	AVG	
9	1.0660	15.13	10.50	25.63	56.00	-30.37	QP	
10	1.0660	14.82	10.50	25.32	46.00	-20.68	AVG	
11	17.4460	35.66	10.47	46.13	60.00	-13.87	QP	
12 *	17.4460	33.12	10.47	43.59	50.00	-6.41	AVG	

^{*:}Maximum data x:Over limit !:over margin

(Reference Only

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7.2. Radiation Emission Test

7.2.1. Limits

According to 15.249 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental	Field St	rength of	Field Strength of Spurious	
Frequency	Fundamental		Their Strength of Spunous	
	mV/meter	dBuV/meter	uV/meter	dBuV/meter
902-928MHz	50	94	500	54
2400-2483.5MHz	50	94	500	54
5725-5875MHz	50	94	500	54
24.0-24.25GHz	250	108	2500	68

The above field strength limits are specified at a distance of 3 meters. Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies	Field strength	Measurement distance
(MHz)	uV/meter	(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

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Frequency Range of Radiated Measurement

According to 15.33(a), the intentional radiator operates below 10GHz, must be meausred up to the tenth harmonic of the highest fundamental frequency or 40GHz, whichever is lower

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7.2.2. TEST INSTRUMENT

	966 Chamber							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100005	06/23/2011				
Spectrum Analyzer	R&S	FSU	100114	04/14/2011				
Pre Amplifier	H.P.	HP8447E	2945A02715	06/23/2011				
Pre-Amplifier	Compliance	PAM0118	1360976	06/04/2011				
Bilog Antenna	SUNOL Sciences	JB3	A021907	06/10/2011				
Horn Antenna	Compliance	CE18000	001	06/10/2011				
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	06/09/2011				
Cable	TIME MICROWAVE			06/09/2011				
System-Controller	CCS	N/A	N/A	N.C.R				
Turn Table	CCS	N/A	N/A	N.C.R				
Antenna Tower	ccs	N/A	N/A	N.C.R				



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7.2.3. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 3MHz for Peak emssion mesurement above 1GHz.

For Average emssion above 1GHz, the resolution bandwidth and video bandwidth of the test receiver was 1MHz and 10Hz.

The EUT was tested in Chamber Site.

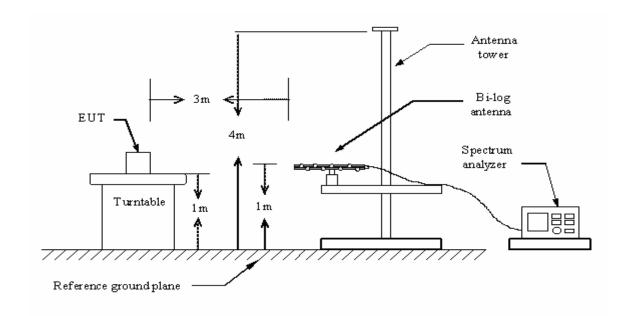
The test data of the worst case condition(s) was reported on the following pages.



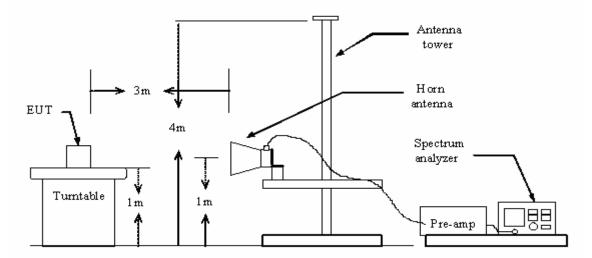
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7.2.4 Test setup diagram

Below 1GHz



Abover 1GHz



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7.2.5.Test Result

A.Fundamental Radiated Emission Data

Product: bluetooth MINI-SPeaker Test mode: CH Low~CH High

Test Item: Fundamental Radiated Emission Data Temperature: 25°C

Test Voltage: PC 5.0V Humidity: 56%RH

Test Result: PASS

CH Low

Freq.	Emission(dBµV/m)	HORIZ/	Limits(dBµV/m)	Margin
(MHz)	Peak Detector/ AV	VERT	Peak/Average	(dB)
2402.00	91.6/73.2	HORIZ	114/94	22.4/20.8
2402.00	94.6 / 76.7	VERT	114/94	19.4/17.3

CH Middle

Freq.	Emission(dBµV/m)	HORIZ/	Limits(dBµV/m)	Margin
(MHz)	Peak Detector/ AV	VERT	Peak/ Average	(dB)
2441.00	92.4/73.8	HORIZ	114/94	21.6/20.2
2441.00	93.6/74.2	VERT	114/94	20.4/19.8

CH High

_					
	Freq.	$Emission(dB\mu V/m)$	HORIZ/	$Limits(dB\mu V/m)$	Margin
	(MHz)	Peak Detector/ AV	VERT	Peak/ Average	(dB)
	2480.0	92.9/75.5	HORIZ	114/94	21.1/18.5
	2480.0	94.3/77.0	VERT	114/94	19.7/17.0

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Issued: March 16, 2011 Revised:None

B.Harmonics Radiated Emission Data

Product: bluetooth MINI-SPeaker Test mode: CH Low~CH High

Test Item: Radiated Emission Data Temperature: 25°C

Test Voltage: PC 5.0V Humidity: 56%RH

Test Result: PASS

CH Low

Freq.	Emission(dBuV/m)	HORIZ/	Limits(dBµV/m)	Margin
(MHz)	Peak Detector	VERT	Peak/ Average	(dB)
4804.12	-	H/V	74.0/54.0	-
7206.18	-	H/V	74.0/54.0	-
9608.24	-	H/V	74.0/54.0	-
12010.3	-	H/V	74.0/54.0	-
14412.36	-	H/V	74.0/54.0	-
16814.42	-	H/V	74.0/54.0	-
19216.48	-	H/V	74.0/54.0	-
21618.54	-	H/V	74.0/54.0	-
24020.6	-	H/V	74.0/54.0	-

CH Midde

Freq.	Emission(dBµV/m)	HORIZ/	Limits(dBµV/m)	Margin
(MHz)	Peak Detector	VERT	Peak/ Average	(dB)
4882.18	-	H/V	74.0/54.0	-
7323.27	-	H/V	74.0/54.0	-
9764.36	-	H/V	74.0/54.0	-
12205.45	-	H/V	74.0/54.0	-
14646.54	-	H/V	74.0/54.0	-
17087.63	-	H/V	74.0/54.0	-
19528.72	-	H/V	74.0/54.0	-
21969.81	-	H/V	74.0/54.0	-
24410.9	-	H/V	74.0/54.0	-



Issued: March 16, 2011 Revised:None

CH High

Freq.	Emission(dBµV/m)	HORIZ/	Limits(dBµV/m)	Margin
(MHz)	Peak Detector	VERT	Peak/ Average	(dB)
4960.26	-	H/V	74.0/54.0	-
7440.39	-	H/V	74.0/54.0	-
9920.52	-	H/V	74.0/54.0	-
12400.65	-	H/V	74.0/54.0	-
14880.78	-	H/V	74.0/54.0	-
17360.91	-	H/V	74.0/54.0	-
19841.04	-	H/V	74.0/54.0	-
22321.17	-	H/V	74.0/54.0	-
24801.3	-	H/V	74.0/54.0	-

Note: - means the emission is too low at least 20dB to the limit.

C. General Radiated Emission Data

Product: bluetooth MINI-SPeaker Test mode: transmitting

Test Item: Radiated Emission Data Temperature: 25°C

Test Voltage: PC 5.0V Humidity: 56%RH

Test Result: PASS

Freq.	Emission(dBµV/m)	HORIZ/	Limits(dBµV/m)	Margin
(MHz)	Peak Detector	VERT	Peak/ Average	(dB)
96.82	30.3	HORIZ	43.5	13.2
96.82	32.6	VERT	43.5	10.9
195.53	27.5	HORIZ	43.5	16.0
195.53	30.7	VERT	43.5	12.8
432.43	29.8	HORIZ	46	16.2
432.43	32.6	VERT	46	13.4



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7.3. Band edge test

7.3.1. Limits

According 15.249(d), Emsision radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in section 15.209, whichever is the lesser attenuation.

7.3.2. TEST INSTRUMENT

Same as 7.2.2

7.3.3. Test procedure

- 1. The EUT was placed on a turntable which is 0.8m above ground plane.
- 2. Set EUT as continuous transmitting mode.
- 3. Set the EUT work on the CH1, CH79individually.
- 4. Set SPA Frequency = Operation frequency, for PK: RBW =1MHz, VBW=3MHz
- 5. Set SPA trace max hold, then view.

7.3.4. Test setup diagram

Same as 7.2.4

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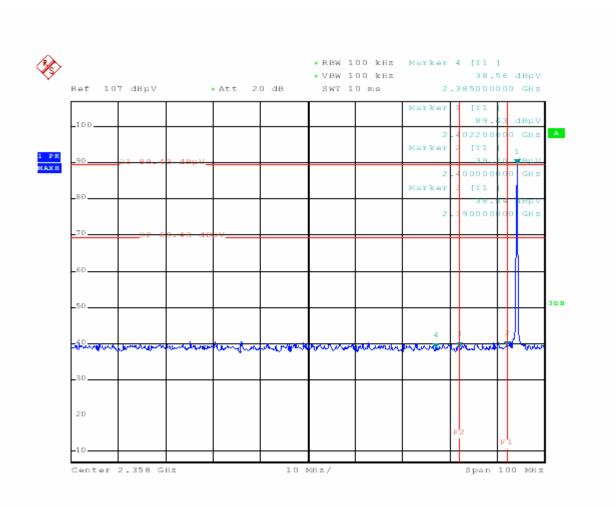
7.3.5. Test result

Product: bluetooth MINI-SPeaker Test mode: CH Low,CH High

Test Item: bandedge Temperature: 25°C

Test Voltage: PC 5.0V Humidity: 56%RH

Test Result: PASS



Emission in the Restricted Bands

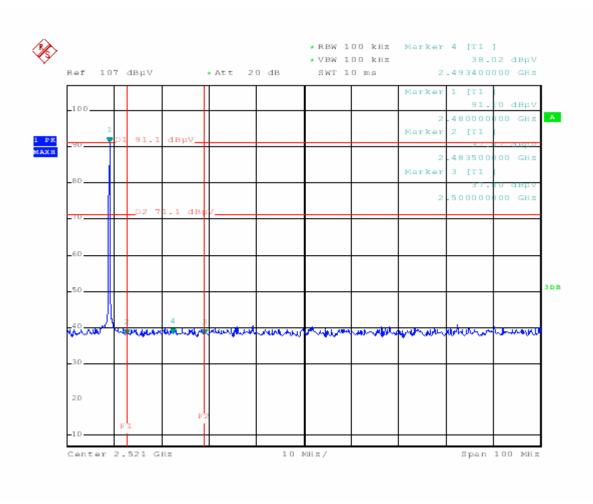
Frequency	dBc	AV	Polarity	AV limit
[MHz]	[dB]	$[dB\mu V/m]$	(H/V)	$[dB\mu V/m]$
2310	-	34.6	V	54
2385	-	34.7	V	54
2390	-	34.8	V	54

The above field strength levels were measured in Vertical polarity which is the worst case.



Report reference No.: WSCT110070220E Issued: March 16, 2011

Revised:None



Emission in the Restricted Bands

Frequency	dBc	AV	Polarity	AV limit
[MHz]	[dB]	$[dB\mu V/m]$	(H/V)	[dBµV/m]
2483.5	-	32.87	V	54
2493.4	-	33.08	V	54
2500	-	33.83	V	54

The above field strength levels were measured in Vertical polarity which is the worst case.



Issued: March 16, 2011 Revised:None

8. Antenna requirement

8.1. Standard applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

8.2. Antenna connected construction

The antenna used in this product is SMD antenna and no consideration of replacement.

TRF No.:FCC PART 15C-15.249/A0



Issued: March 16, 2011 Revised:None

9 PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST





TRF No.:FCC PART 15C-15.249/A0



Issued: March 16, 2011

Revised:None

CONDUCTED EMISSION TEST



TRF No.:FCC PART 15C-15.249/A0



Issued: March 16, 2011 Revised:None

10 PHOTOGRAPHS OF EUT

Exterior photograph of EUT



Exterior photograph of EUT



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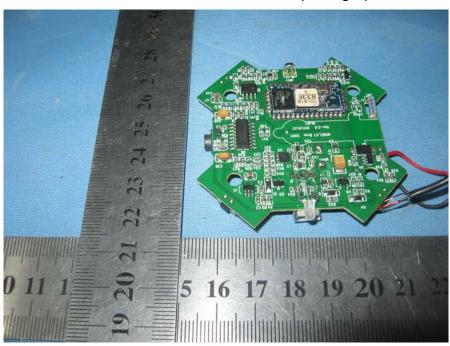


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Interior photograph of EUT



PCB photograph of EUT



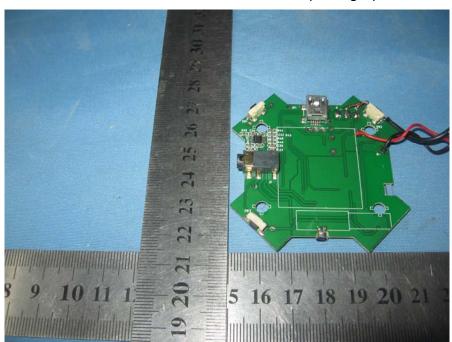
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PCB photograph of EUT



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