

APPLICATION FOR CERTIFICATION
On Behalf of

G. tech Technology Ltd.

Bluetooth Stereo Receiver

Model Number: BS01R

Prepared for : G. tech Technology Ltd.
No.21, Jinding Industrial Park, West Jinfeng Road,
Tangjiawan Town, Xiangzhou District Zhuhai
Guangdong China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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Report Number : ACS-F07549
Date of Test : Dec.17~21, 2007
Date of Report : Dec.28, 2007

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TEST REPORT CERTIFICATION

Applicant : G. tech Technology Ltd.
 Manufacturer : G. tech Technology Ltd.
 EUT Description : Bluetooth Stereo Receiver
 (A) MODEL NO. : BS01R
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 3.7V
 (D) Test Voltage : DC 5V Input From PC; DC 3.7V From
 Adaptor Input AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test: Dec.17~21, 2007

Prepared by:

Edie Huang
 Edie Huang / Assistant

Reviewer:

Iceman Hu
 Iceman Hu / Supervisor



信華科技(深圳)有限公司

Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature:

Approved & Authorized Signer

Ken Lu
 Ken Lu / Deputy Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. 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: 2003 DA 00-705	PASS
Radiated Emission Test	FCC Part 15: 15.247(d) ANSI C63.4: 2003 DA 00-705	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
20 dB Bandwidth Test	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) DA 00-705	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Bluetooth Stereo Receiver
Model Number	:	BS01R
Operation frequency	:	2.402GHz-----2.480GHz
Operation Channel	:	79Channels
Radio Technology	:	Bluetooth
Antenna Assembly Gain	:	0dBi(maximum)
Power Supply	:	DC 3.7V
Test Voltage	:	DC 5V Input From PC (see note)
Applicant	:	G. tech Technology Ltd. No.21, Jinding Industrial Park, West Jinfeng Road, Tangjiawan Town, Xiangzhou District Zhuhai Guangdong China
Adaptor	:	Manufacture: Ktec, M/N: KSAFB0500070UIUS
USB Cable	:	Unshielded, Detachable, 1.5m
Date of Test	:	Dec.17~21, 2007
Date of Receipt	:	Dec.10, 2007
Sample Type	:	Series Production

Note: This EUT was normal powered by 3.7V lithium battery. But for this test, we need a test software to control it's hopping channel, and this software need 5V work voltage.

2.2.Tested Supporting System Details

2.2.1.MP3

Manufacturer : MEIZU
M/N : EZ

2.2.2.Notebook

Manufacturer : Compaq
M/N : EVON410C
Adaptor : Manufacturer: DELTA ELECTRONICS INC.
M/N: ADP-60JB
S/N: DND9937121108

2.2.3.Bluetooth Stereo Transmitter

Manufacturer : G.tech
M/N : BS01T
USB Cable : Unshielded, Detachable, 1.5m
Adaptor : Manufacture: Ktec,
M/N: KSAFB0500070UIUS

2.2.4.Headphone

EMC CODE : ACS-EMC-EP01
M/N : OV880V
Manufacturer : OVANN
Data Cable : Shielded, Undetachable, 4.0m

2.2.5. RS232 Cable : Unshieleed,Detachable,1.5m

2.3. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou, Shenzhen,
Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Jun. 13, 2006

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Jan. 31, 2007

EMC Lab. : Certificated by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2004

Certificated by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2006

Certificated by Nemko, Norway
Aut. No.: ELA135
April. 22, 2004

Certificated by Industry Canada
Registration Number: IC 5183A-1
Aug. 10, 2007

2.4. Measurement Uncertainty

No.	Item	Uncertainty	Remark
1.	Conducted Emission Test	1.22dB	
2.	Radiated Emission Test	3.14dB	3m Chamber
3.	Radiated Emission Test	3.18dB	10m Chamber
4.	RF frequency	$\pm 0.5 \times 10^{-7}$	
5.	RF power, conducted	± 3 dB	

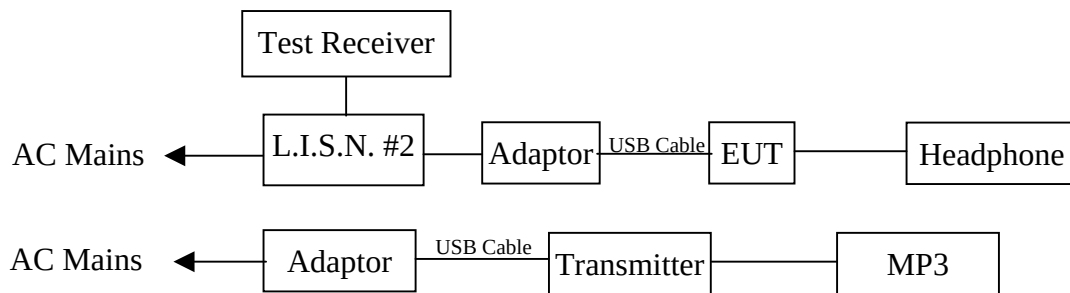
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	May 11, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 11, 07	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 11, 07	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 2	May 11, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	LISN Cable 1#	Aug.11, 07	1/2 Year
6.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May 11, 07	1 Year
7.	Coaxial Switch	Anritsu	MP59B	M55367	Aug.11, 07	1/2 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Aug.11, 07	1/2 Year

3.2.Block Diagram of Test Setup

3.2.1.Block diagram of connection between the EUT and simulators



(EUT: Bluetooth Stereo Receiver)

3.3.Power Line Conducted Emission Test Limits

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.

3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Bluetooth Stereo Receiver (EUT)

Model Number : BS01R

Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2..

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. Let the EUT worked in test mode (TX) and measured it.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Please refer the block diagram of the test setup and photographs. 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.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test results are reported on Section 3.7.

3.7. Power Line Conducted Emission Test Results

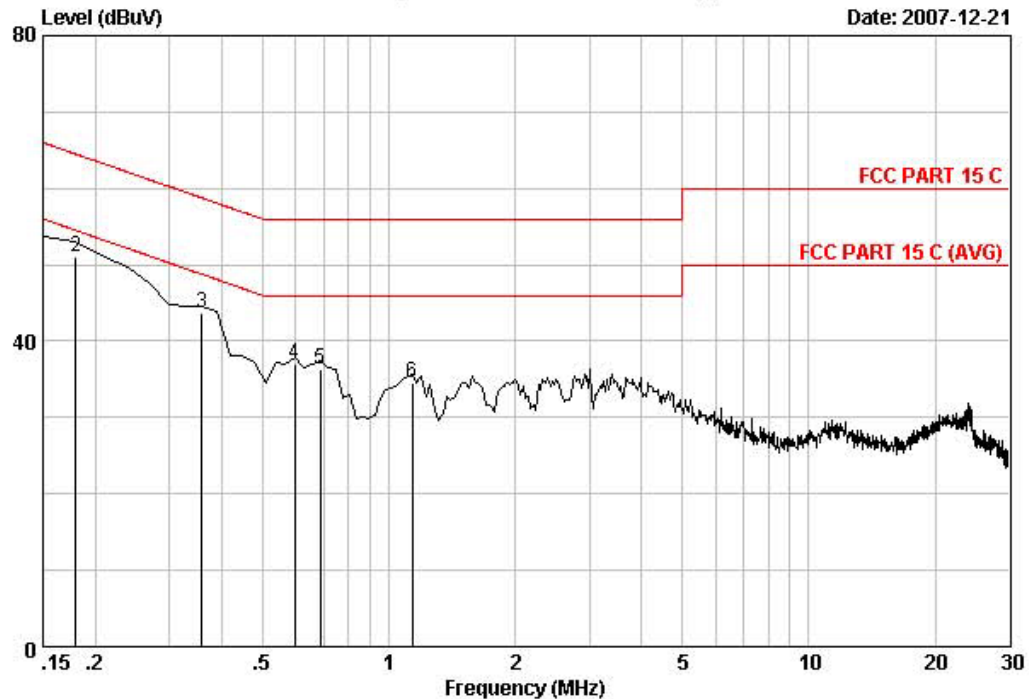
PASS.



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Data: 5 File: D:\DATA\2007 Report\G\G.tech\ACS7Q1553.EMI (6)

Date: 2007-12-21



Site no. : Audix No.1 Conduction Data no. : 5
Dis. / Ant. : -- KNW407 VA (1#) Ant. pol. :
Limit : FCC PART 15 C
Env. / Ins. : Temp:23' Humi:54% ESHS10 Engineer : Chinalee
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating : DC 5V From Adaptor Input AC 120V/60Hz
Test Mode : TX Mode
:

		LISN	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.15	0.22	10.15	41.34	51.71	66.00	14.29	QP
2	0.18	0.18	10.15	40.66	50.99	64.49	13.50	QP
3	0.36	0.10	10.14	33.35	43.59	58.75	15.16	QP
4	0.60	0.05	10.14	26.71	36.90	56.00	19.10	QP
5	0.69	0.05	10.14	26.17	36.36	56.00	19.64	QP
6	1.14	0.04	10.15	24.46	34.65	56.00	21.35	QP

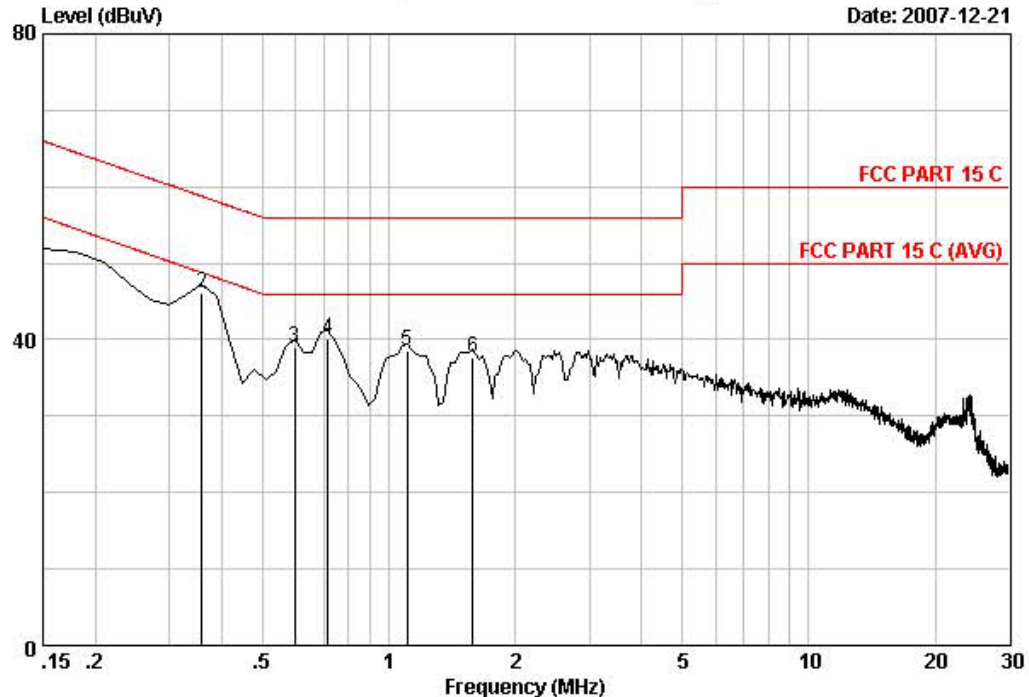
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary



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Data: 6 File: D:\DATA\2007 Report\G\G.tech\ACS7Q1553.EMI (6)

Date: 2007-12-21



Site no. : Audix No.1 Conduction Data no. : 6
Dis. / Ant. : -- KNW407 VB (1#) Ant. pol. :
Limit : FCC PART 15 C
Env. / Ins. : Temp:23° Humi:54% ESHS10 Engineer : Chinalee
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating : DC 5V From Adaptor Input AC 120V/60Hz
Test Mode : TX Mode
:

		LISN	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.15	0.25	10.15	40.62	51.02	66.00	14.98	QP
2	0.36	0.10	10.14	35.93	46.17	58.75	12.58	QP
3	0.60	0.05	10.14	28.91	39.10	56.00	16.90	QP
4	0.72	0.04	10.14	30.02	40.20	56.00	15.80	QP
5	1.11	0.04	10.15	28.31	38.50	56.00	17.50	QP
6	1.58	0.05	10.15	27.49	37.69	56.00	18.31	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary

4. RADIATED EMISSION TEST

4.1. Test Equipment

The following test equipments are used during the radiated emission test:

4.1.1. For Anechoic Chamber

Frequency rang: 30~1000MHz

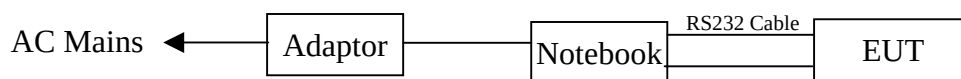
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Dec.20.07	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 11, 07	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 11, 07	1 Year
4.	Amplifier	HP	8447D	2944A07794	Sep.11, 07	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6111C	2598	Feb.22, 07	1 Year
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	July. 16,07	1/2 Year
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	July. 16,07	1/2 Year
8.	RF Cable	FUJIKURAw	RG-55/U	3# Chamber No.3	July. 16,07	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	July. 16,07	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	July. 16,07	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

4.2. Block Diagram of Test Setup

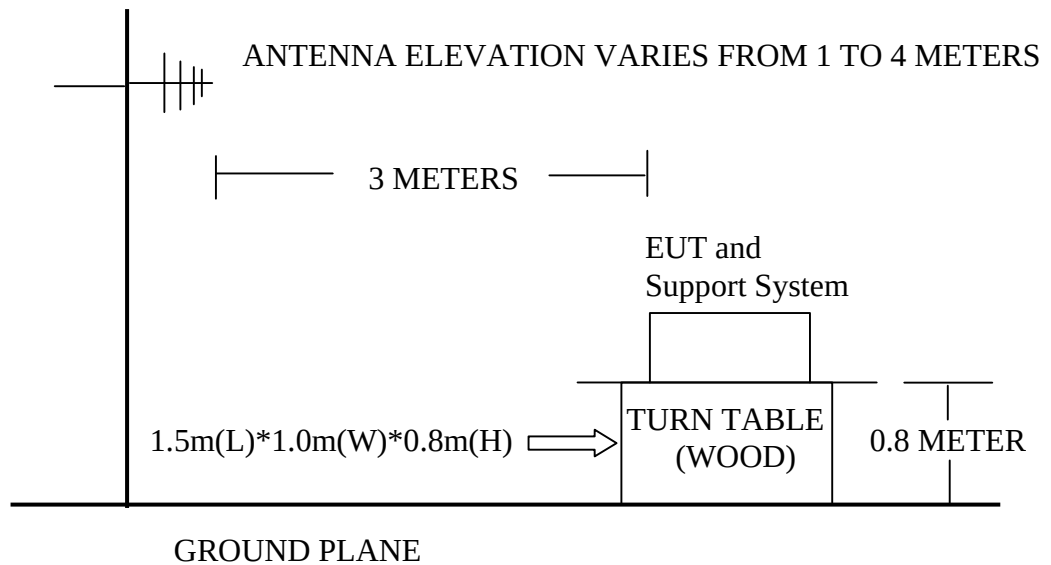
4.2.1. Block diagram of connection between the EUT and simulators



(EUT: Bluetooth Stereo Receiver)

4.2.2. In Anechoic Chamber

ANTENNA TOWER



4.3. Radiated Emission Limit

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
Above 1000	3	74.0 dB (μV)/m (Peak) 54.0 dB (μV)/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.

4.4. 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.

4.4.1. Bluetooth Stereo Receiver (EUT)

Model Number : BS01R
Serial Number : N/A

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

4.5.Operating Condition of EUT

4.5.1.Setup the EUT as shown in Section 4.2.

4.5.2.Turned on the power of all equipment.

4.5.3.Let the EUT worked in test mode (TX) and tested it.

4.6.Test Procedure

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. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. 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 are set on test.

This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz.

frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency ranges from 30MHz to 10th harmonic are checked.

The test modes (TX Mode) are tested in Anechoic Chamber and all the scanning waveforms are reported with antenna in horizontal and vertical polarization on Section 4.7.

4.7.Radiated Emission Test Results

PASS.

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,

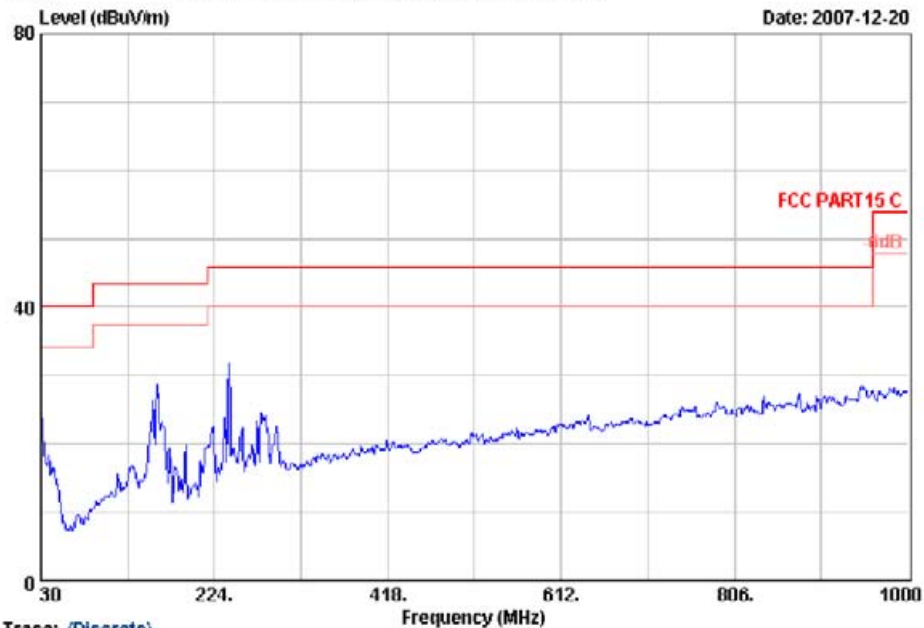
All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Radiated emission test for 18-24GHz is measured with peak detector, the RBW is 1MHz and VBW is 3MHz.The measure result complied average limit. So it also complied peak limit.



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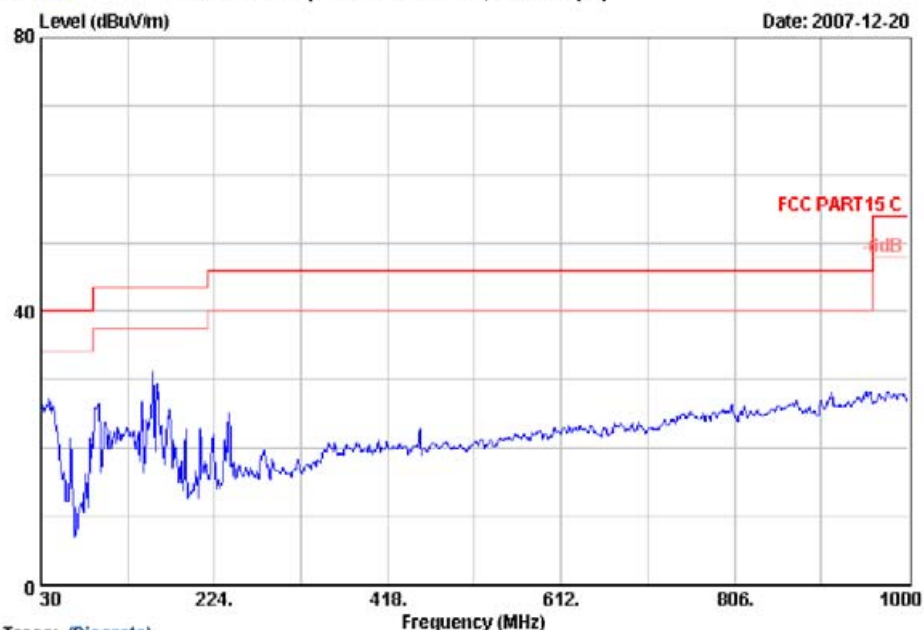
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Trace: (Discrete)

Site no. : 3# Chamber Radiation	Data no. : 9
Dis. / Ant. : 3m 2598	Ant. pol. : HORIZONTAL
Limit : FCC PART15 C	
Env. / Ins. : 24°C/56% ESVS20	Engineer : Skyle
EUT : Bluetooth Stereo Receiver	M/N:BS01R
Power Rating : DC 5V Input From PC	
Test Mode : Tx 2402MHz	

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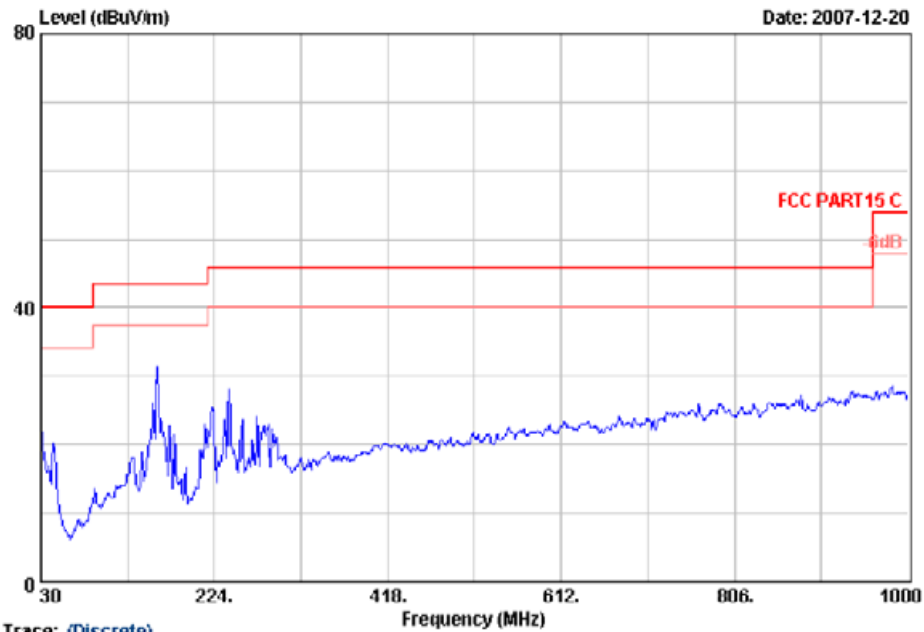
Trace: (Discrete)

Site no. : 3# Chamber Radiation	Data no. : 10
Dis. / Ant. : 3m 2598	Ant. pol. : VERTICAL
Limit : FCC PART15 C	
Env. / Ins. : 24°C/56% ESVS20	Engineer : Skyle
EUT : Bluetooth Stereo Receiver	M/N:BS01R
Power Rating : DC 5V Input From PC	
Test Mode : Tx 2402MHz	



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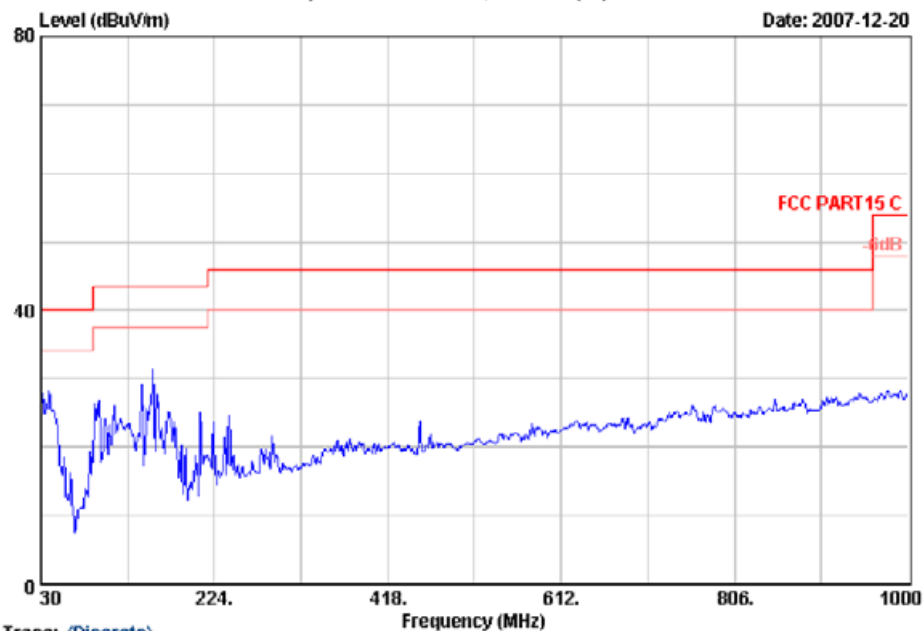
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Trace: (Discrete)

Site no. : 3# Chamber Radiation	Data no. : 12
Dis. / Ant. : 3m 2598	Ant. pol. : HORIZONTAL
Limit : FCC PART15 C	
Env. / Ins. : 24°C/56% ESVS20	Engineer : Skyle
EUT : Bluetooth Stereo Receiver	M/N:BS01R
Power Rating : DC 5V Input From PC	
Test Mode : Tx 2441MHz	

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Trace: (Discrete)

Site no. : 3# Chamber Radiation	Data no. : 11
Dis. / Ant. : 3m 2598	Ant. pol. : VERTICAL
Limit : FCC PART15 C	
Env. / Ins. : 24°C/56% ESVS20	Engineer : Skyle
EUT : Bluetooth Stereo Receiver	M/N:BS01R
Power Rating : DC 5V Input From PC	
Test Mode : Tx 2441MHz	

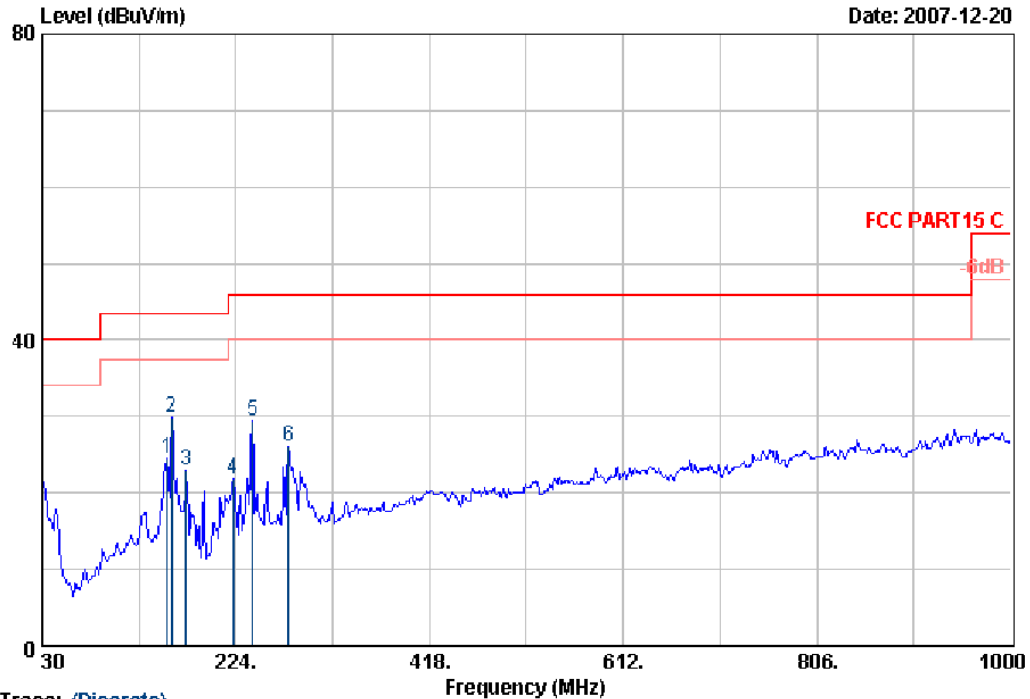


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Date: 2007-12-20



Trace: (Discrete)

Site no. :	3# Chamber Radiation	Data no. :	13
Dis. / Ant. :	3m 2598	Ant. pol. :	HORIZONTAL
Limit :	FCC PART15 C		
Env. / Ins. :	24*C/56% ESVS20	Engineer :	Skyle
EUT :	Bluetooth Stereo Receiver	M/N:	BS01R
Power Rating :	DC 5V Input From PC		
Test Mode :	Tx 2480MHz		
Memo :			

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	155.13	11.30	1.20	11.92	24.42	43.50	19.08	QP
2	159.98	10.90	1.30	17.57	29.77	43.50	13.73	QP
3	174.53	9.60	1.27	12.01	22.88	43.50	20.62	QP
4	221.09	10.38	1.42	10.05	21.85	46.00	24.15	QP
5	240.49	11.88	1.46	16.12	29.46	46.00	16.54	QP
6	276.38	13.30	1.50	11.18	25.98	46.00	20.02	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

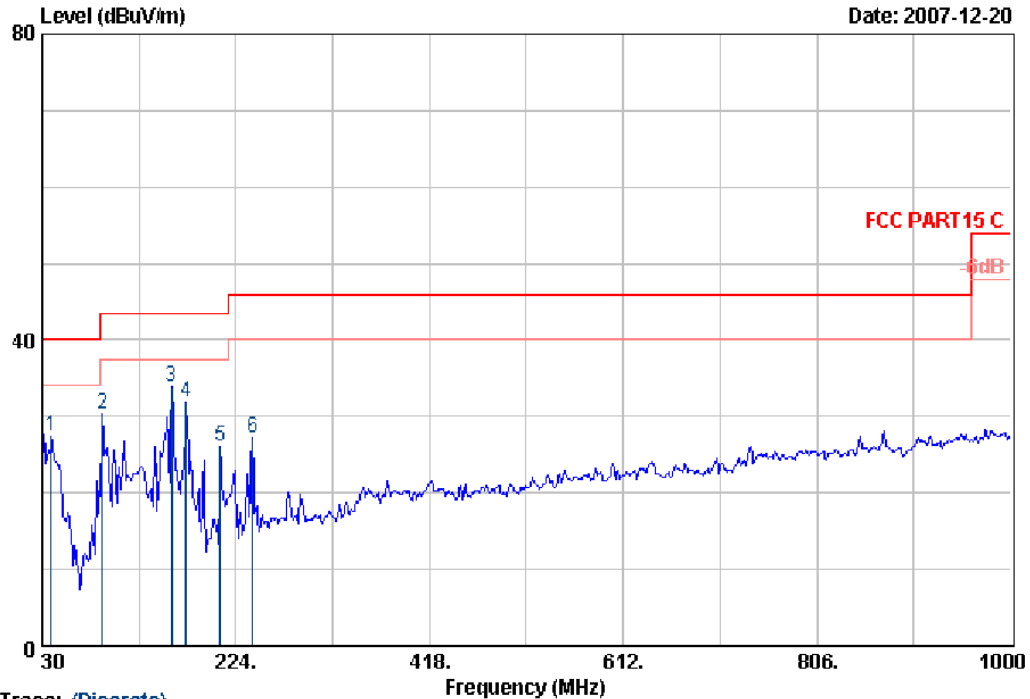


No.6 Ke Feng Road,Block 52,
Nan shan Science&Industry
shen zhen Guangdong
<http://www.audix.com.cn>

Data: 14

File: D:\2007 Report Data\G\GACS7Q1553.EMI (14)

Date: 2007-12-20



Trace: (Discrete)

Site no. :	3# Chamber Radiation	Data no. :	14
Dis. / Ant. :	3m 2598	Ant. pol. :	VERTICAL
Limit :	FCC PART15 C		
Env. / Ins. :	24°C/56% ESVS20	Engineer :	Skyle
EUT :	Bluetooth Stereo Receiver	M/N:	BS01R
Power Rating :	DC 5V Input From PC		
Test Mode :	Tx 2480MHz		
Memo :			

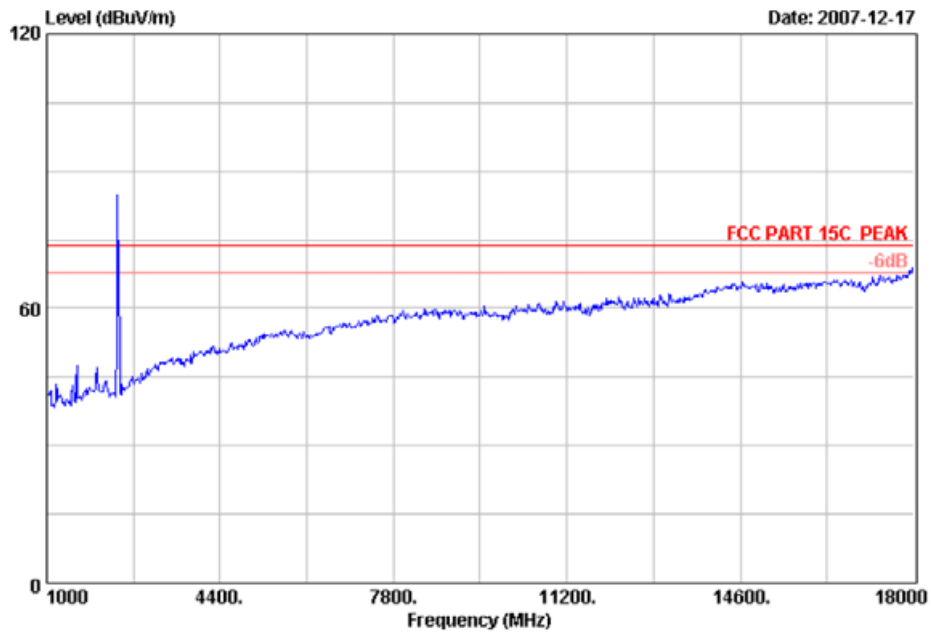
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	38.73	14.82	0.73	11.94	27.49	40.00	12.51	QP
2	90.14	9.00	1.03	20.26	30.29	43.50	13.21	QP
3	159.98	10.90	1.30	21.65	33.85	43.50	9.65	QP
4	174.53	9.60	1.27	20.97	31.84	43.50	11.66	QP
5	208.48	10.37	1.39	14.27	26.03	43.50	17.47	QP
6	240.49	11.88	1.46	13.81	27.15	46.00	18.85	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



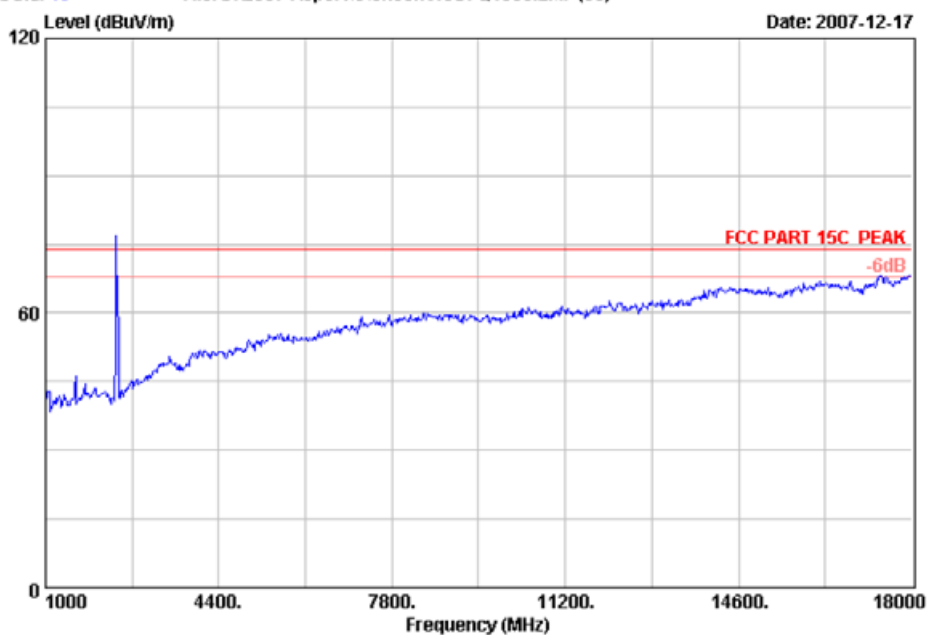
No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 49 File: D:\2007 Report\GIG.tech\ACS7Q1553.EMI (55)



Site no. : Data no. : 49
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2402MHz

Data: 48 File: D:\2007 Report\GIG.tech\ACS7Q1553.EMI (55)

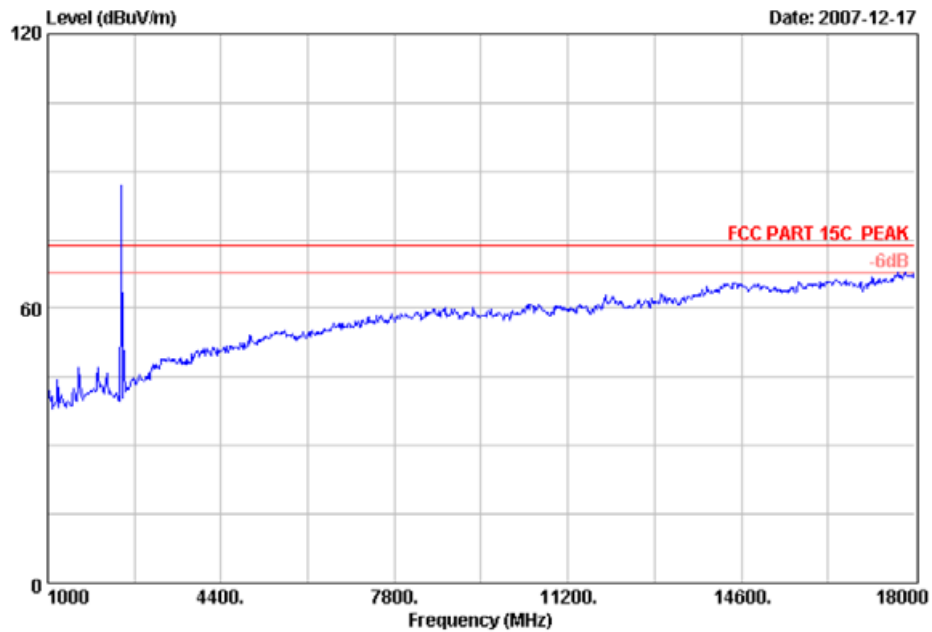


Site no. : Data no. : 48
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2402MHz



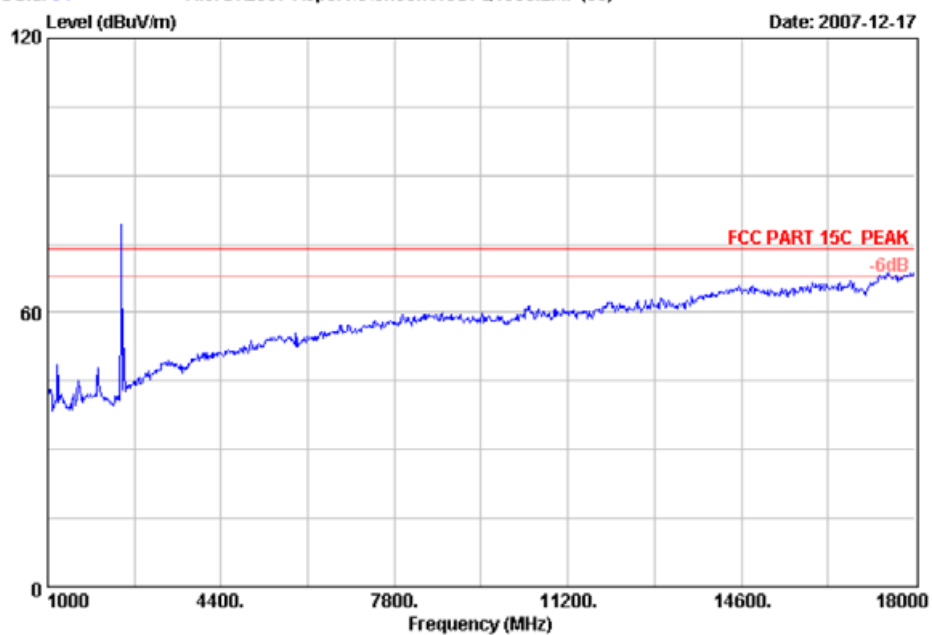
No.6 Ke Feng Road,B1:ck 52,
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Noutou,ShenZhen,GuangDong,China
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Fax:+86-755-26632877
Postcode:518057

Data: 50 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (55)



Site no. : Data no. : 50
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2441MHz

Data: 51 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (55)



Site no. : Data no. : 51
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2441MHz

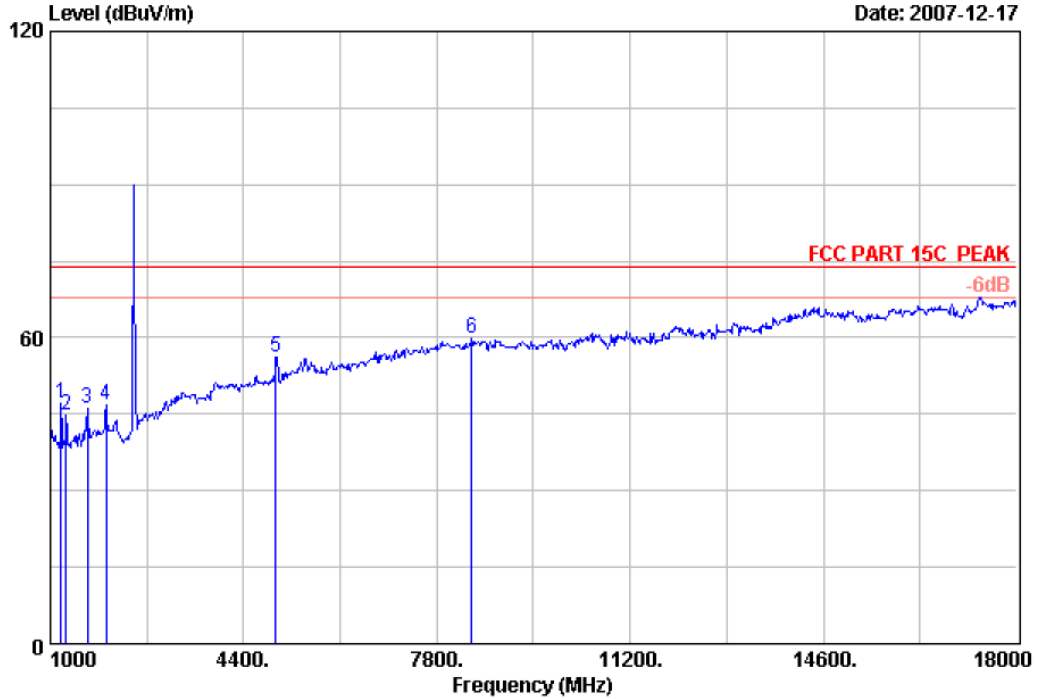


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Postcode:518057

Data: 54

File: D:\2007 Report\GIG.tech\ACS7Q1553.EMI (55)

Date: 2007-12-17



Site no. : Data no. : 54
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1187.00	24.77	4.74	36.04	53.66	47.13	74.00	26.87	Peak
2	1272.00	24.94	4.88	35.95	50.80	44.67	74.00	29.33	Peak
3	1646.00	26.18	5.53	35.61	50.13	46.23	74.00	27.77	Peak
4	1986.00	27.97	6.16	35.32	48.09	46.90	74.00	27.10	Peak
5	4961.00	34.38	10.59	34.46	45.65	56.16	74.00	17.84	Peak
6	8412.00	38.50	13.41	34.92	42.79	59.78	74.00	14.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

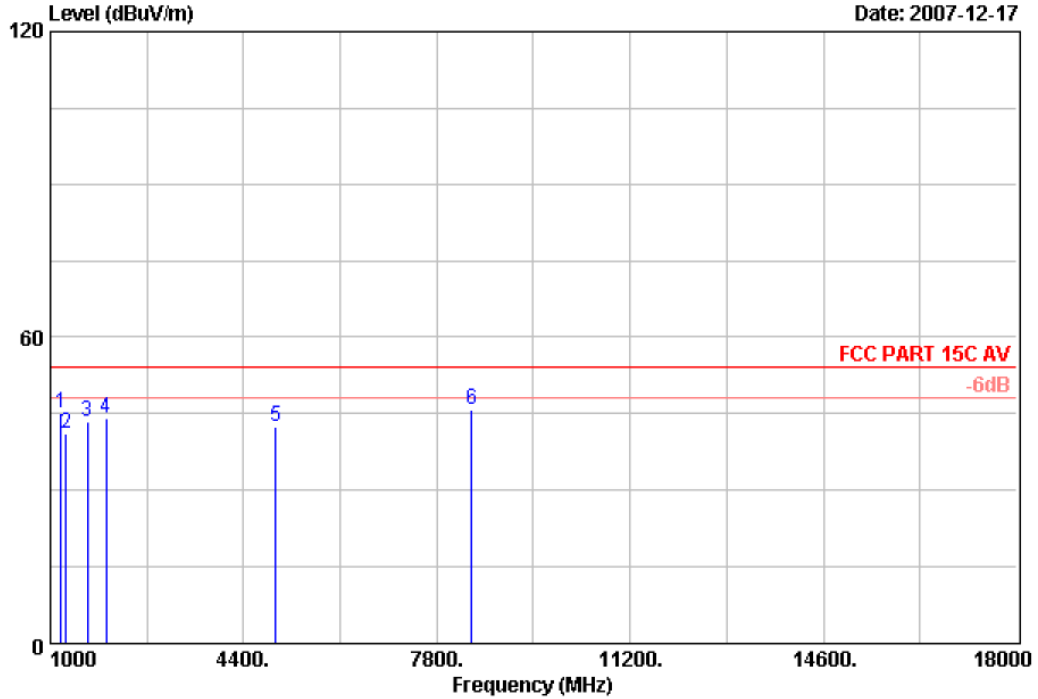


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Postcode:518057

Data: 55

File: D:\2007 Report\GIG.tech\ACS7Q1553.EMI (55)

Date: 2007-12-17



Site no. : Data no. : 55
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading	Level	Limits	Margin	
					(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1187.00	24.77	4.74	36.04	51.74	45.21	54.00	8.79	Average
2	1272.00	24.94	4.88	35.95	47.36	41.23	54.00	12.77	Average
3	1646.00	26.18	5.53	35.61	47.34	43.44	54.00	10.56	Average
4	1986.00	27.97	6.16	35.32	45.29	44.10	54.00	9.90	Average
5	4961.00	34.38	10.59	34.46	32.05	42.56	54.00	11.44	Average
6	8412.00	38.50	13.41	34.92	28.81	45.80	54.00	8.20	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

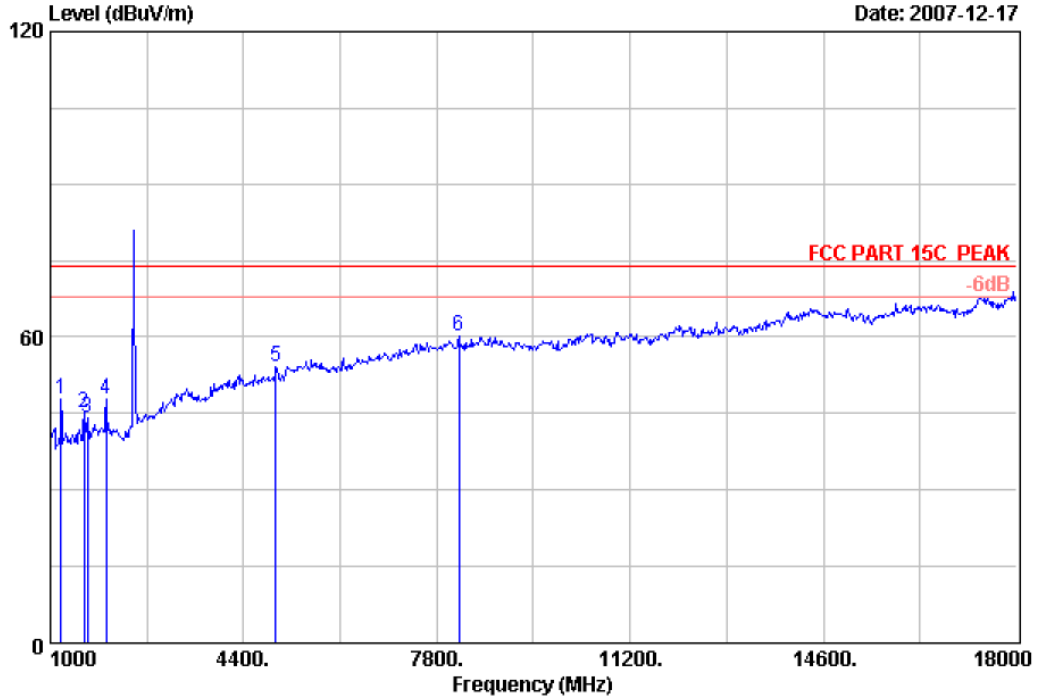


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Data: 52

File: D:\2007 Report\GIG.tech\ACS7Q1553.EMI (55)

Date: 2007-12-17



Site no. : Data no. : 52
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	1187.00	24.77	4.74	36.04	54.39	47.86	74.00	26.14	Peak
2	1595.00	25.91	5.43	35.66	49.49	45.17	74.00	28.83	Peak
3	1646.00	26.18	5.53	35.61	48.15	44.25	74.00	29.75	Peak
4	1986.00	27.97	6.16	35.32	48.84	47.65	74.00	26.35	Peak
5	4961.00	34.38	10.59	34.46	43.67	54.18	74.00	19.82	Peak
6	8191.00	38.23	13.24	34.76	43.30	60.01	74.00	13.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

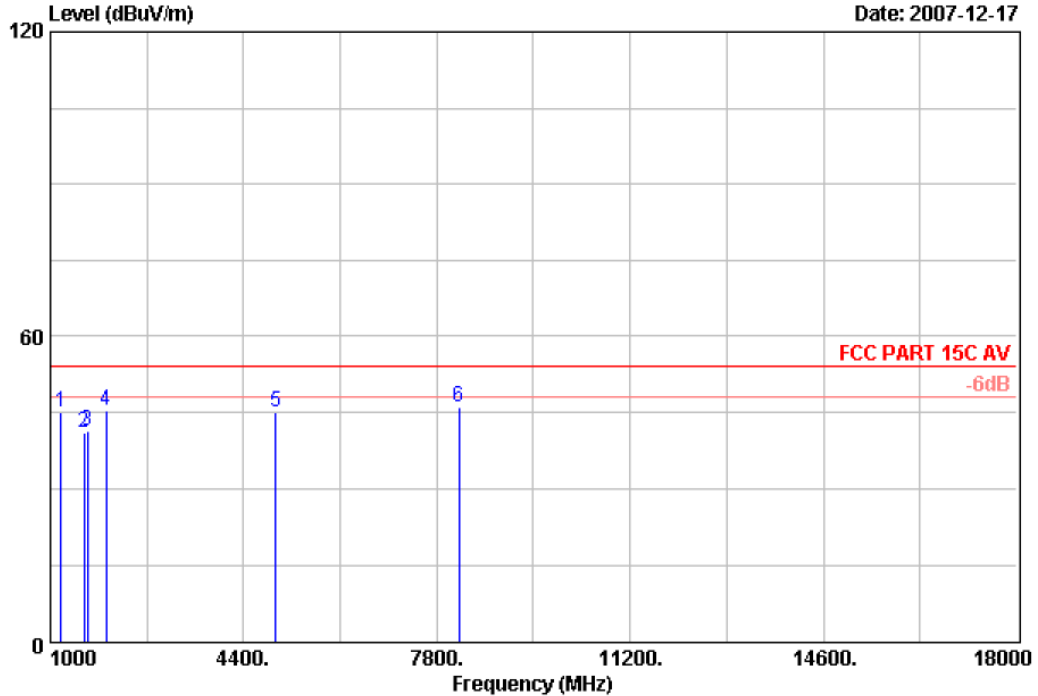


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Data: 53

File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (55)

Date: 2007-12-17



Site no. : Data no. : 53
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz

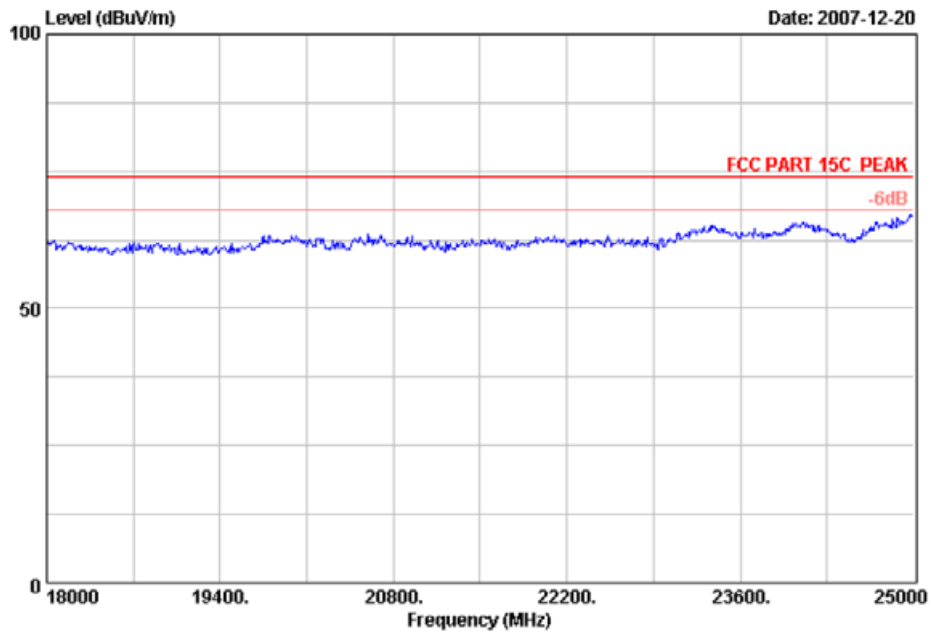
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1187.00	24.77	4.74	36.04	51.74	45.21	54.00	8.79	Average
2	1595.00	25.91	5.43	35.66	45.52	41.20	54.00	12.80	Average
3	1646.00	26.18	5.53	35.61	45.26	41.36	54.00	12.64	Average
4	1986.00	27.97	6.16	35.32	46.79	45.60	54.00	8.40	Average
5	4961.00	34.38	10.59	34.46	34.60	45.11	54.00	8.89	Average
6	8191.00	38.23	13.24	34.76	29.49	46.20	54.00	7.80	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



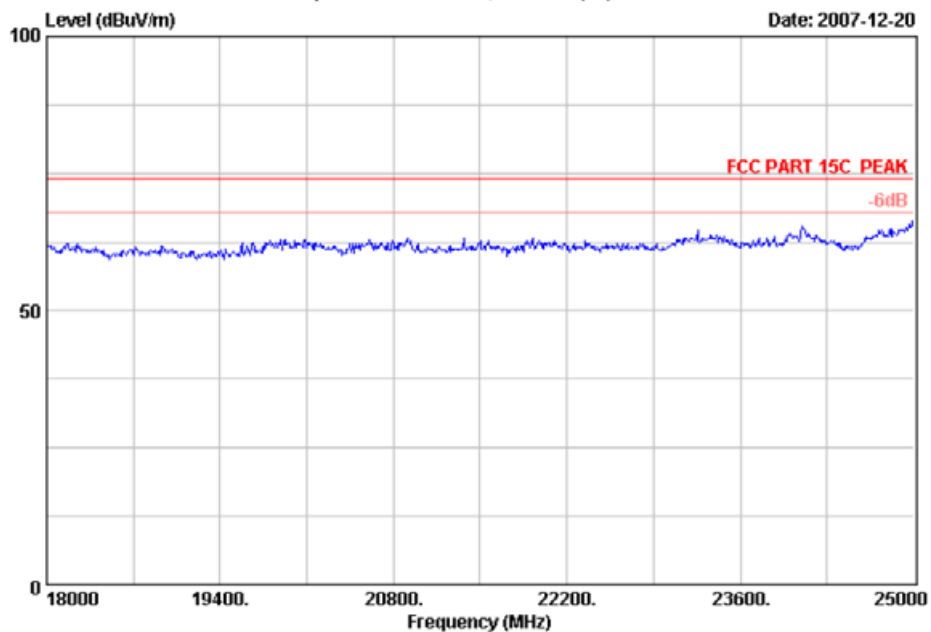
No.6 Ke Feng Road,B1:ck 52,
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Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 56 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)



Site no. : Data no. : 56
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2402MHz

Data: 57 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)

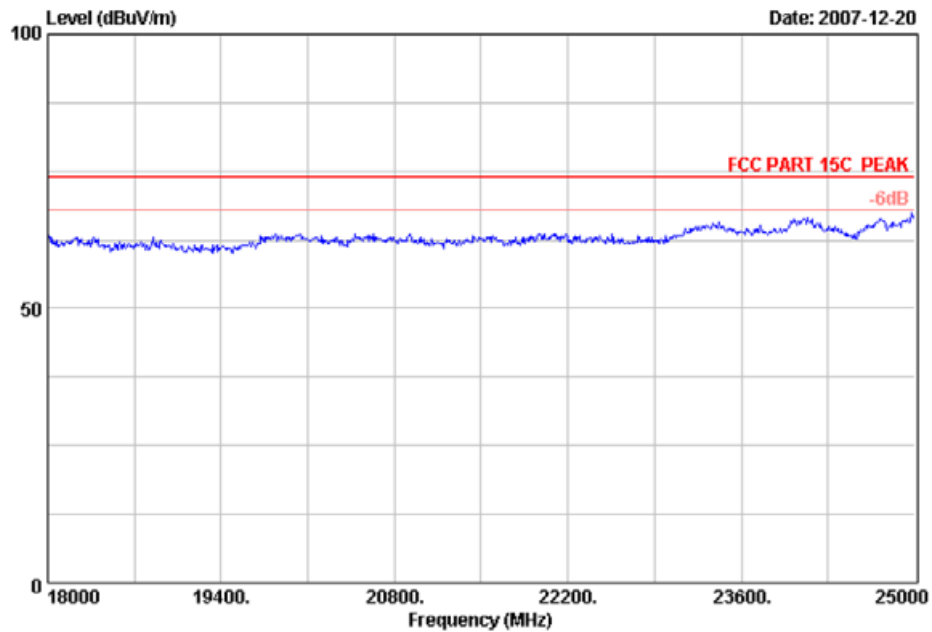


Site no. : Data no. : 57
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2402MHz



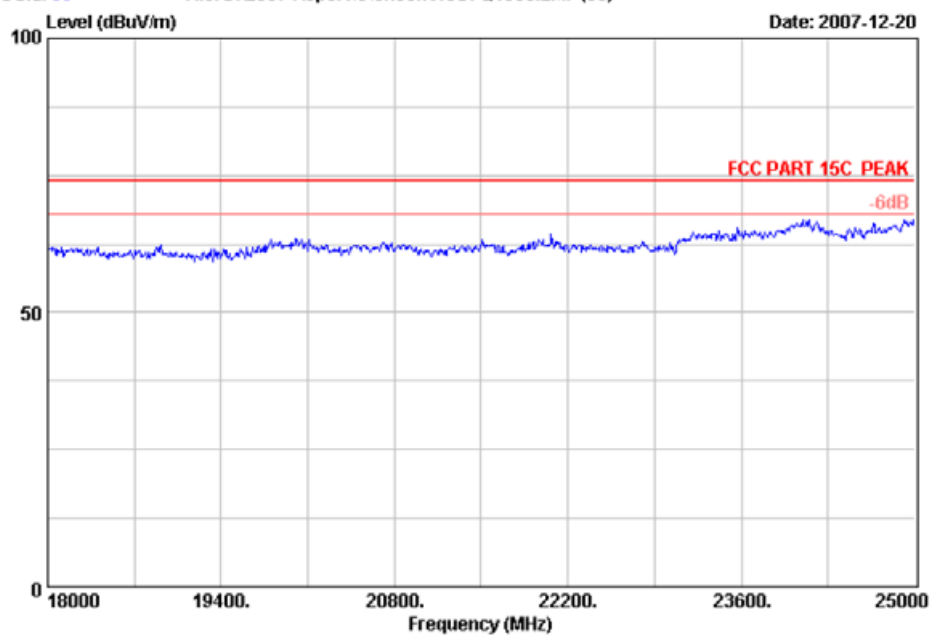
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Fax:+86-755-26632877
Postcode:518057

Data: 59 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)



Site no. : Data no. : 59
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2441MHz

Data: 58 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)

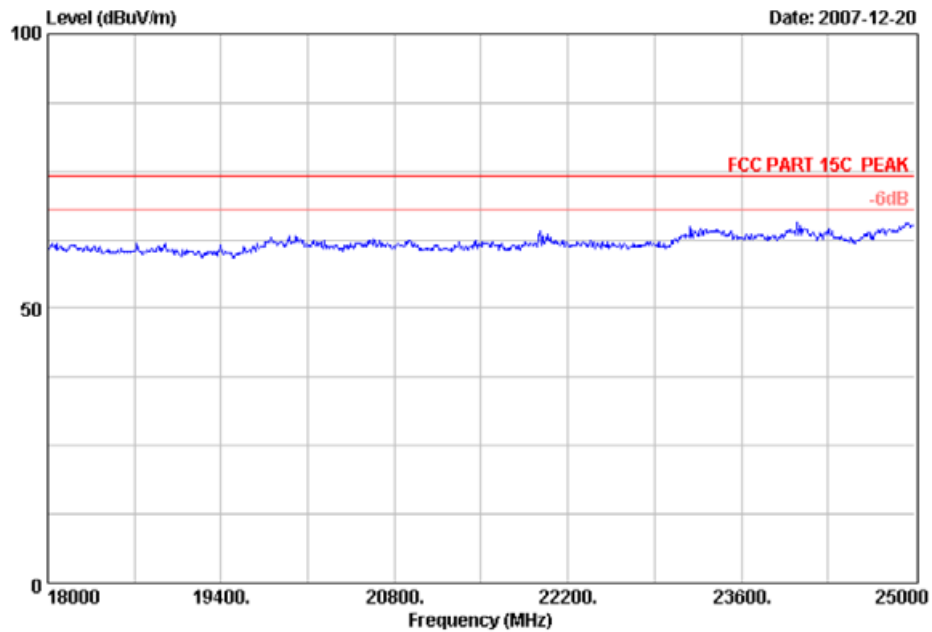


Site no. : Data no. : 58
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2441MHz



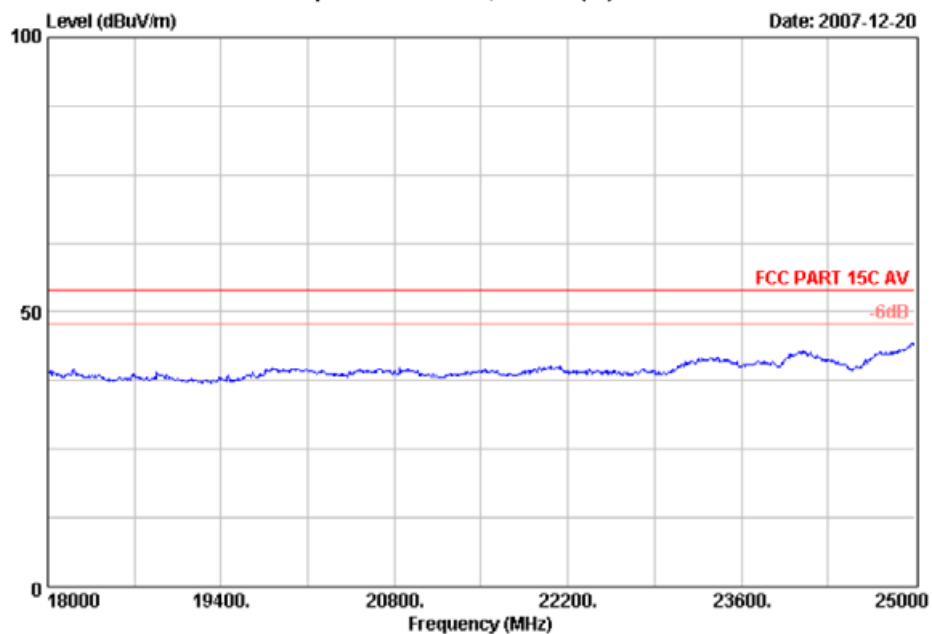
No.6 Ke Feng Road,B1:ck 52,
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Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 60 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)



Site no. : Data no. : 60
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz

Data: 61 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)

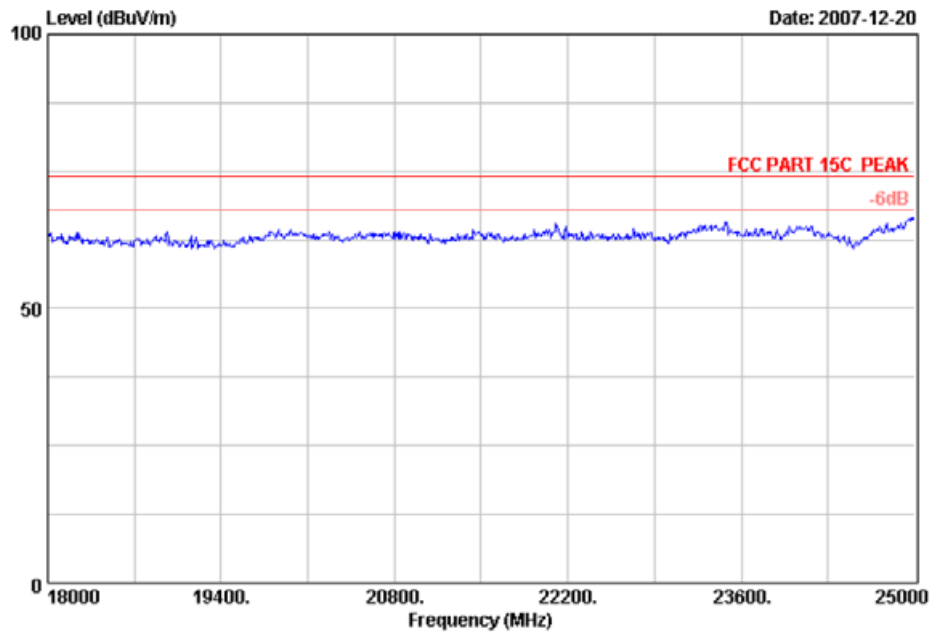


Site no. : Data no. : 61
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz



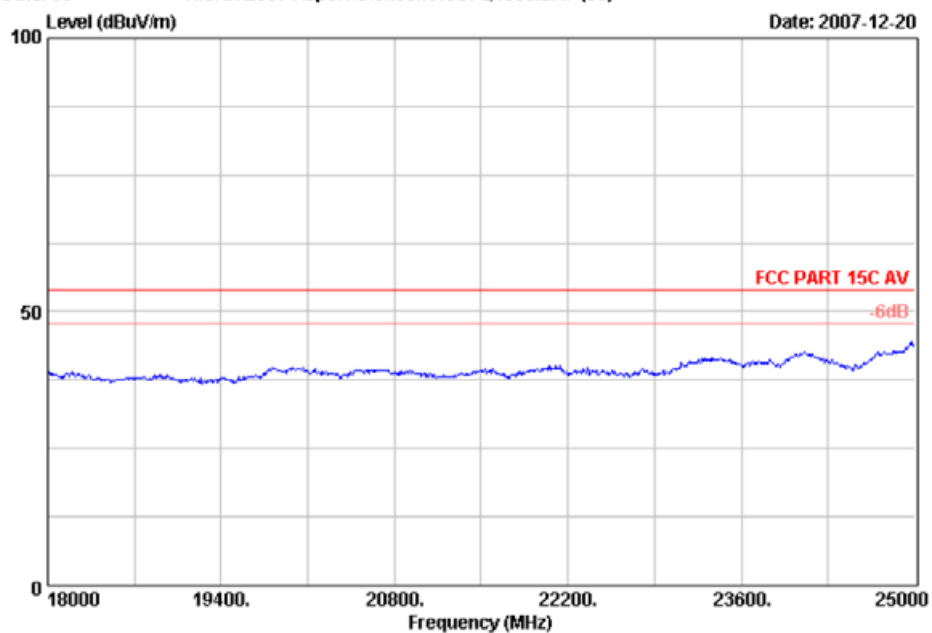
No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 62 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)



Site no. : Data no. : 62
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz

Data: 63 File: D:\2007 Report\G\G.tech\ACS7Q1553.EMI (63)



Site no. : Data no. : 63
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Skyle
EUT : Bluetooth Stereo Receiver M/N:BS01R
Power Rating: DC 5V Input From PC
Test Mode : TX 2480MHz

5. CARRIER FREQUENCY SEPARATION TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

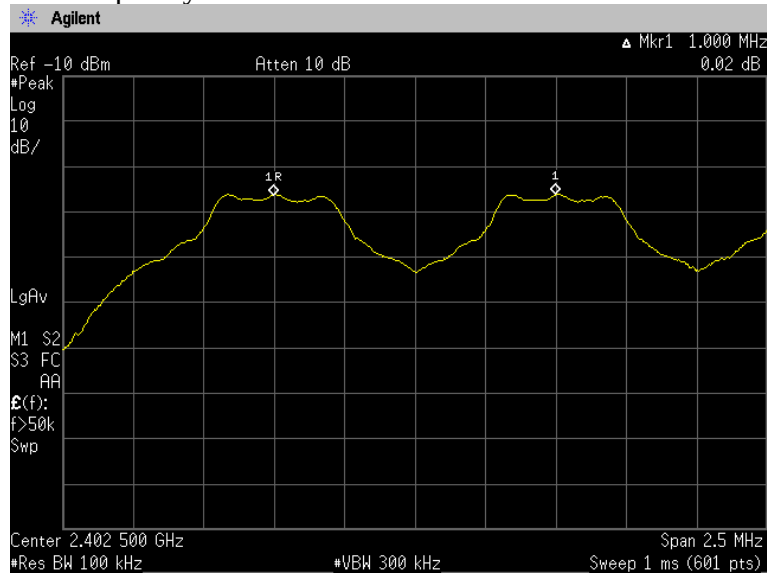
5.2. Test Information

EUT:	Bluetooth Stereo Receiver
M/N:	BS01R
Test Date:	Dec.20, 2007
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)
Test mode:	TX (Hopping on)
Test Frequency:	Low: 2402MHz Mid: 2441MHz High: 2480MHz
Test By:	Skyle

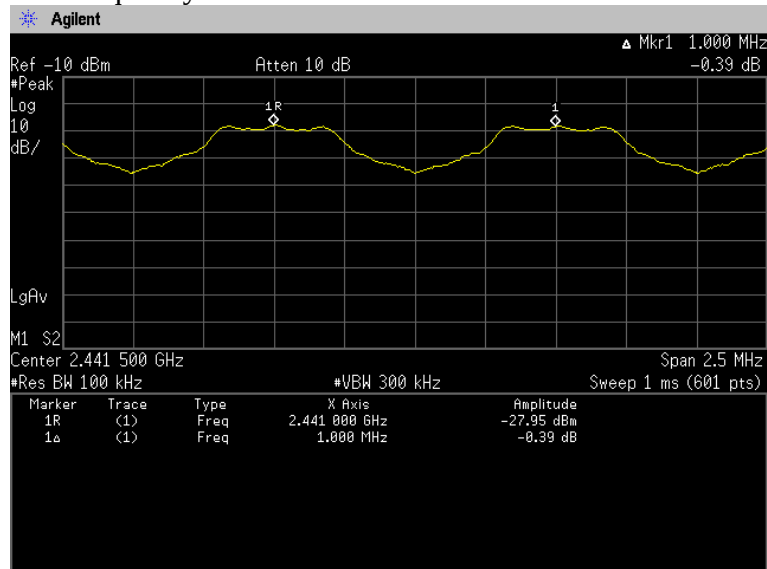
5.3. Test Results

CH	Channel separation	Limit	Conclusion
Low	1MHz	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASS
Mid	1MHz	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASS
High	1MHz	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASS

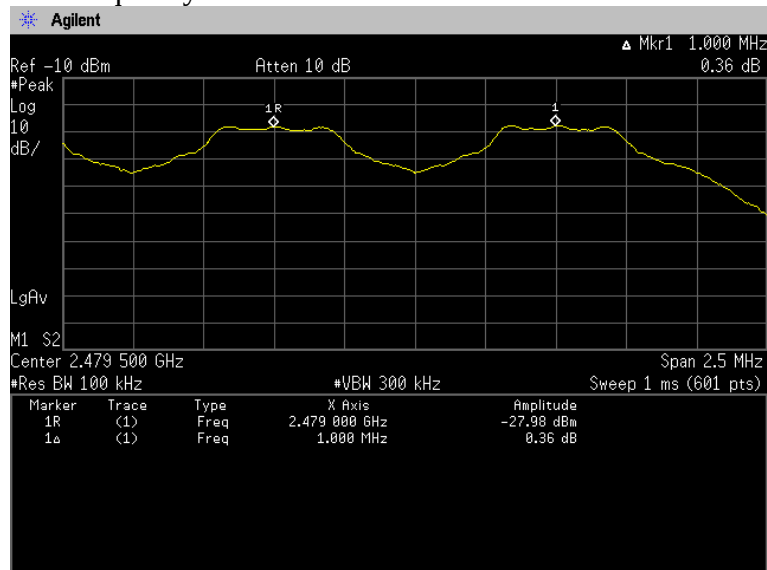
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



6. 20 DB BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

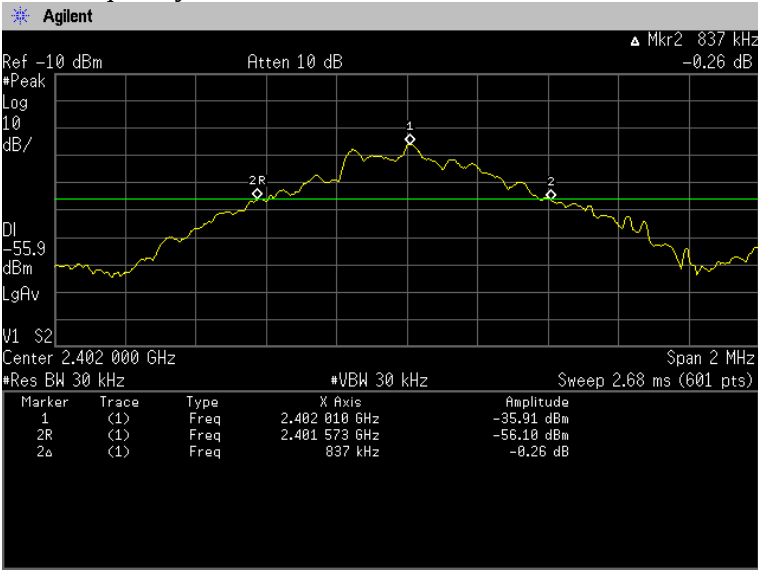
6.2. Test Information

EUT:	Bluetooth Stereo Receiver
M/N:	BS01R
Test Date:	Dec.20, 2007
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)
Test mode:	TX (Hopping off)
Test Frequency:	Low: 2402MHz Mid: 2441MHz High: 2480MHz
Test By:	Skyle

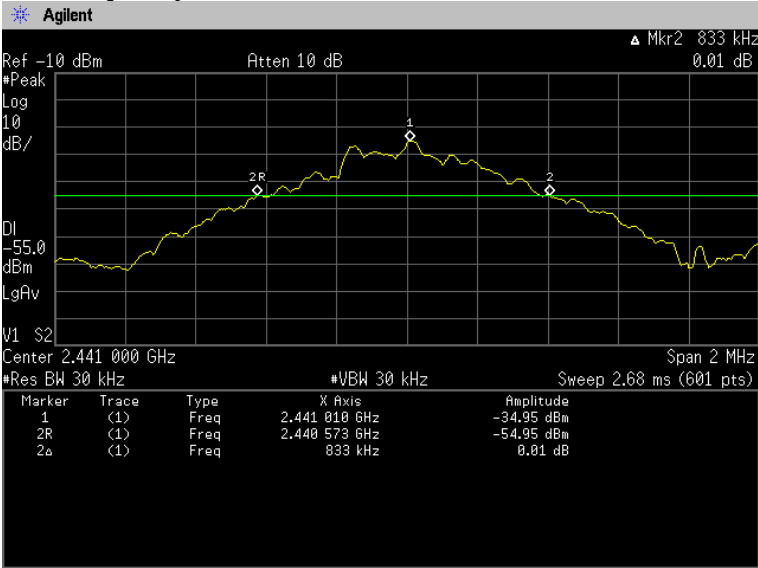
6.3. Test Results

CH	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	837	---	PASS
(Mid)	833	---	PASS
(High)	843	---	PASS

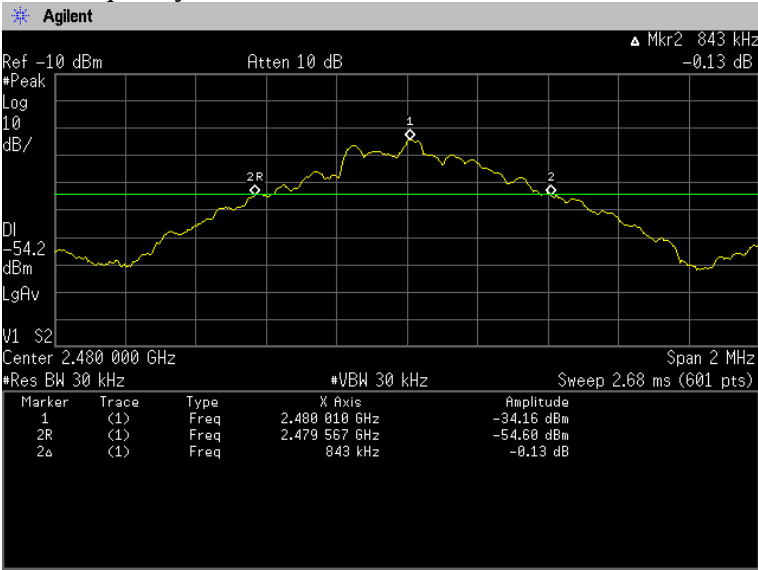
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Test Equipment

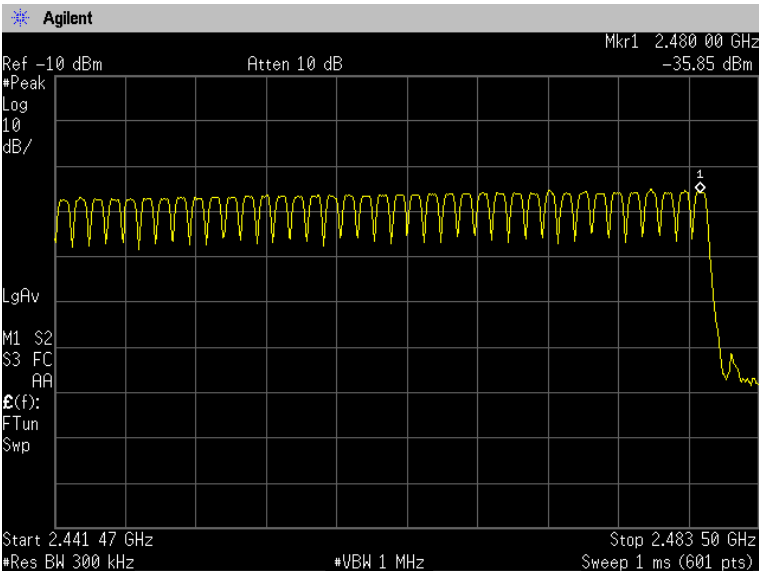
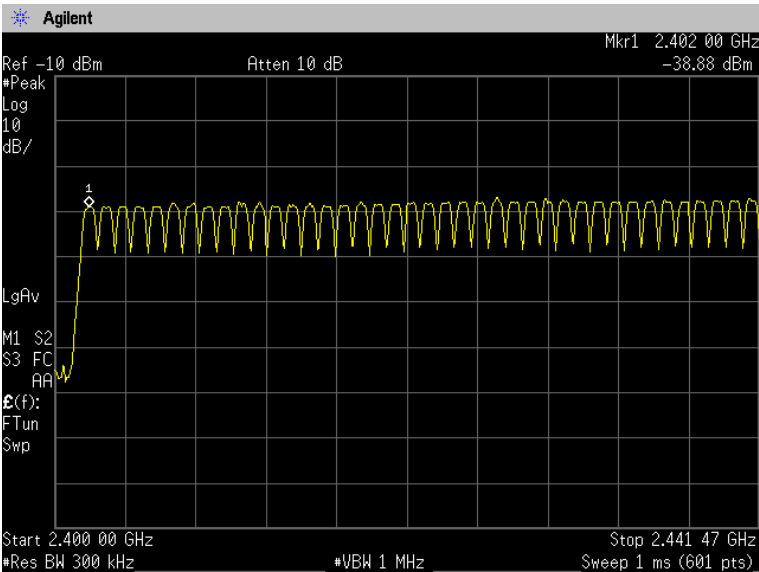
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

7.2. Test Information

EUT:	Bluetooth Stereo Receiver
M/N:	BS01R
Test Date:	Dec.20, 2007
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	TX (Hopping on)
Test Frequency:	From 2402MHz to 2480MHz
Test By:	Skyle

7.3. Test Results

Number of channel	Limit	Conclusion
79	>=15	PASS



8. DWELL TIME TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

8.2. Test Information

EUT:	Bluetooth Stereo Receiver
M/N:	BS01R
Test Date:	Dec.20, 2007
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	Transmitting, Hopping off
Test Frequency:	Normal
Test By:	Skyle

8.3. Test Results

This system hopping 50,25,17 hops in any 5s, and for each hop it transmit 2 pulses, the pulse dwell are 448.4μs, 1.171ms, 2.967ms, so the dwell times are:

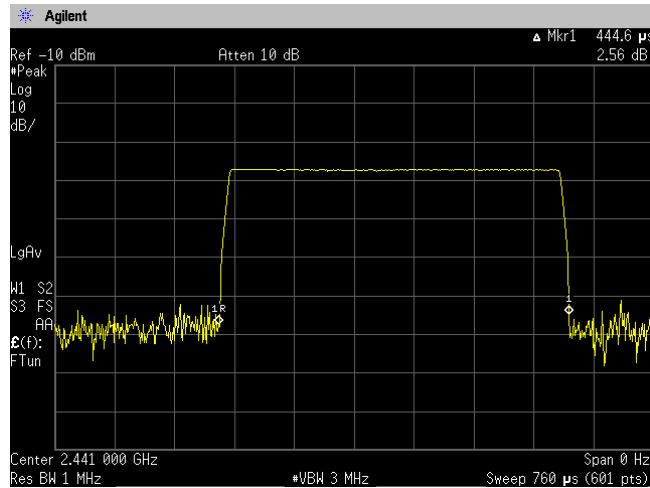
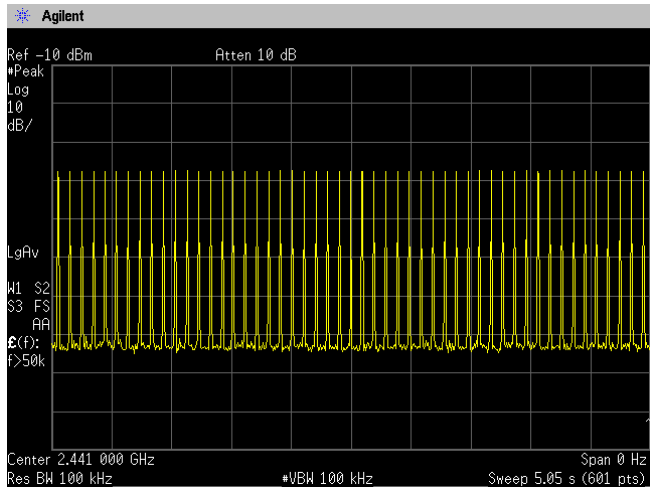
$$50/5*31.6*0.4446=140.50\text{ms}$$

$$25/5*31.6*1.71=270.18\text{ms}$$

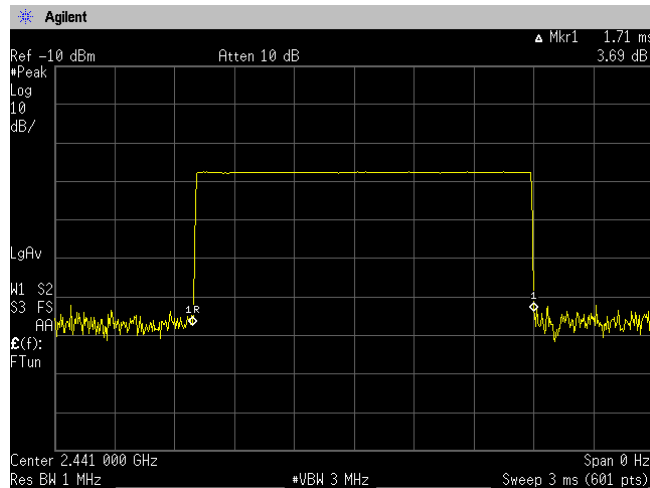
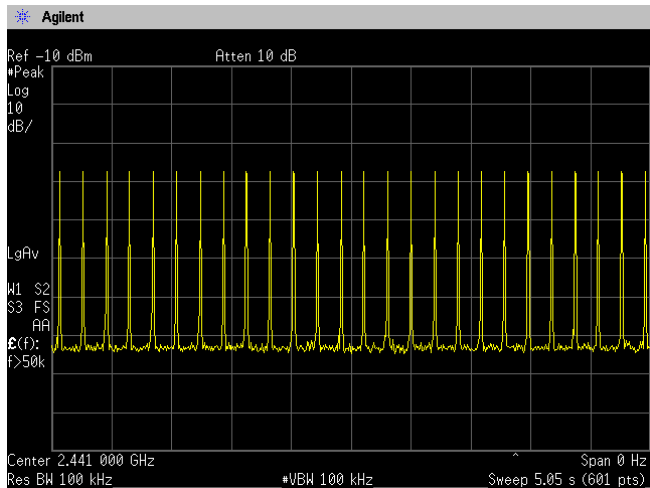
$$17/5*31.6*2.967=318.78\text{ms}$$

dwell time	Limit	Conclusion
140.50ms	<400ms	PASS
270.18ms	<400ms	PASS
318.78ms	<400ms	PASS

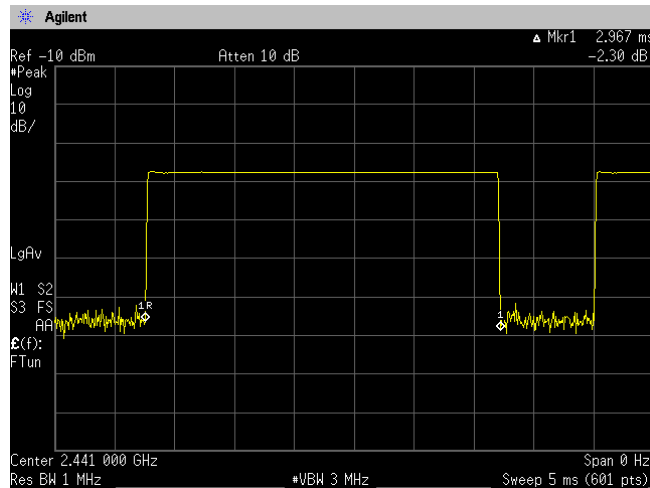
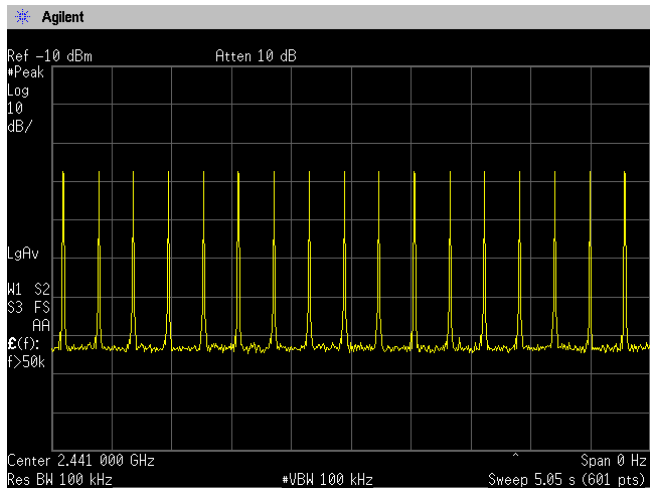
DH1



DH3



DH5



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,11, 07	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,11, 07	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May,11, 07	1Year
4	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,11, 07	1Year

9.2. Test Information

EUT:	Bluetooth Stereo Receiver
M/N:	BS01R
Test Date:	Dec.20, 2007
Ambient Temperature:	24°C
Relative Humidity:	58%
Test standard:	FCC PART 15C: 15.247(b)(1)
Test mode:	TX (Hopping off)
Test Frequency:	Low: 2402MHz Mid: 2441MHz High: 2480MHz
Test By:	Skyle

9.3. Test Results

CH	Frequency (MHz)	P/M Reading (dBm)	Cable loss (dB)	Result (dBm)	Limit		Margin
					(dBm)	(mW)	
Low	2402.00	-4.68	0.63	-4.05	20.97	125	25.02
Mid	2441.00	-1.05	0.57	-0.48	20.97	125	21.45
High	2480.00	-3.90	0.68	-3.22	20.97	125	24.19

Calculation Result = Reading + Cable loss

10.BAND EDGE COMPLIANCE TEST

10.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

10.2.Test Information

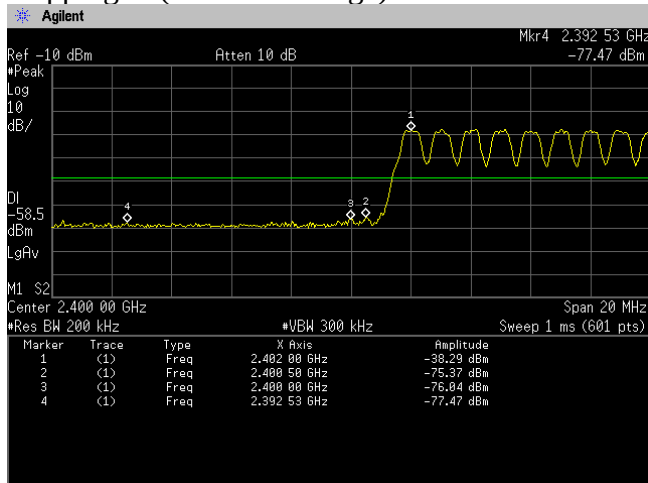
EUT:	Bluetooth Stereo Receiver
M/N:	BS01R
Test Date:	Dec.20, 2007
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(d)
Test mode:	TX (Hopping on and Hopping off)
Test Frequency:	Low: 2402MHz High: 2480MHz
Test By:	Skyle

10.3.Test Results

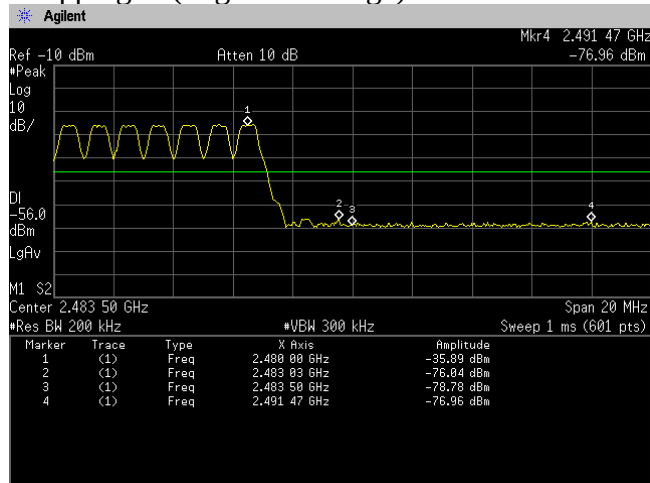
PASS.

The testing data was attached in the next pages.

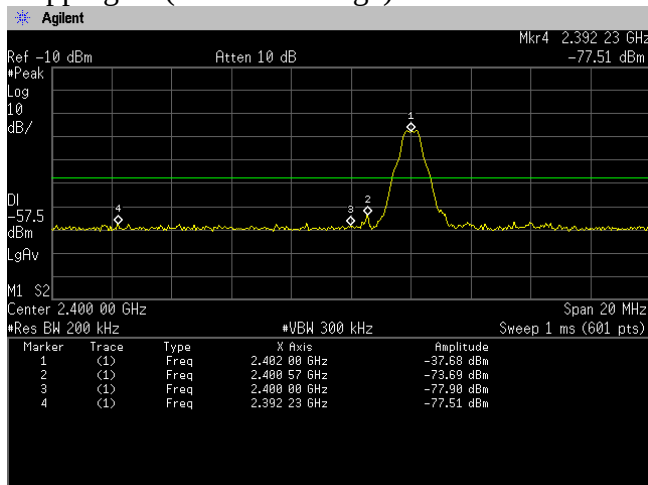
Hopping on(Low Band Edge)



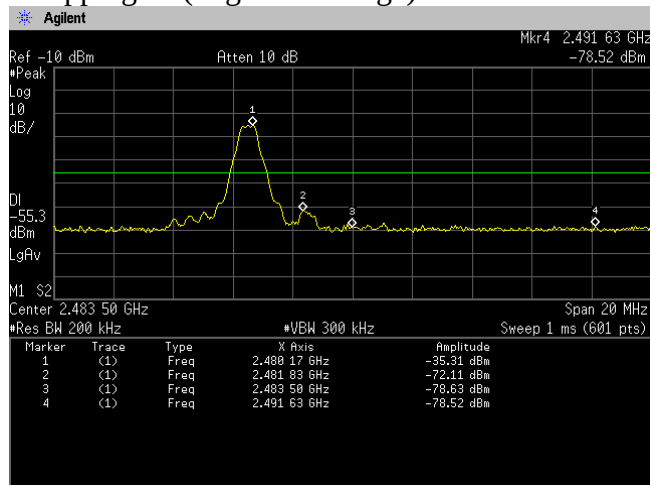
Hopping on(High Band Edge)



Hopping off(Low Band Edge)



Hopping off(High Band Edge)



11.DEVIATION TO TEST SPECIFICATIONS

[NONE]