

Produkte  
Products

**Prüfbericht - Nr.: 17025498 001**

Test Report No.:

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**Auftraggeber:** Shenzhen Horn Audio Co., Ltd.  
**Client:** Block 5, Tongfuyu Ind. Zone, Longhua, Baoan, Shenzhen, P.R. China

**Gegenstand der Prüfung:** 2.4GHz Digital Wireless Stereo Headphone  
**Test item:**

**Bezeichnung:** RF-WHP212      **Serien-Nr.:** n.a.  
**Identification:**

**Wareneingangs-Nr.:** 163089236      **Eingangsdatum:** 2012-03-05  
**Receipt No.:**

*Date of receipt:*

**Zustand des Prüfgegenstandes bei Anlieferung:** Test samples received are sufficient for testing  
**Condition of test item at delivery:** and not damaged.

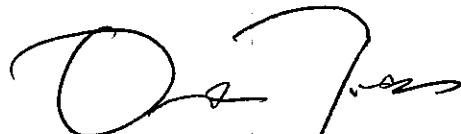
**Prüfort:** Accurate Technology Co., Ltd.  
**Testing location:** F1, Bldg. A, Changyuan New Material Port  
Keyuan Rd., Science & Industry Park, Nanshan  
Shenzhen, P.R. China  
FCC Registration No.: 752051  
Test site Industry Canada No.: 5077A-2

**Prüfgrundlage:** FCC CFR47 Part 15: Subpart C Section 15.247  
**Test specification:** FCC CFR47 Part 15: Subpart C Section 15.207  
FCC CFR47 Part 15: Subpart C Section 15.209  
FCC CFR47 Part 15: Subpart B Section 15.107  
FCC CFR47 Part 15: Subpart B Section 15.109  
RSS-210 Issue 8 December 2010  
RSS-Gen Issue 3 December 2010  
RSS-102 Issue 4 March 2010

**Prüfergebnis:** Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).  
**Test Result:** The test item passed the test specification(s).

**Prüflaboratorium:** TÜV Rheinland (Shenzhen) Co., Ltd.  
**Testing Laboratory:**

**geprüft/ tested by:** kontrolliert/ reviewed by:



2012-05-22      Owen Tian/Project Manager

Datum Date	Name/Stellung Name/Position	Unterschrift Signature
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2012-05-22      Shawn Peng/Technical Certifier

Datum Date	Name/Stellung Name/Position	Unterschrift Signature
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**Sonstiges/ Other Aspects:**

This test report is for approval of base station (transmitter) only.

**Abkürzungen:** P(pass) = entspricht Prüfgrundlage  
F(all) = entspricht nicht Prüfgrundlage  
N/A = nicht anwendbar  
N/T = nicht getestet

**Abbreviations:** P(pass) = passed  
F(all) = failed  
N/A = not applicable  
N/T = not tested

**Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.**

*This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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## TEST SUMMARY

### 5.1.1 ANTENNA REQUIREMENT

*RESULT:* Pass

### 5.1.2 PEAK OUTPUT POWER

*RESULT:* Pass

### 5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH

*RESULT:* Pass

### 5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100kHz BANDWIDTH

*RESULT:* Pass

### 5.1.5 SPURIOUS EMISSION

*RESULT:* Pass

### 5.1.6 FREQUENCY SEPARATION

*RESULT:* Pass

### 5.1.7 NUMBER OF HOPPING FREQUENCY

*RESULT:* Pass

### 5.1.8 TIME OF OCCUPANCY

*RESULT:* Pass

### 5.1.9 RADIATED EMISSIONS

*RESULT:* Pass

### 5.1.10 CONDUCTED EMISSIONS

*RESULT:* Pass

### 6.1.1 ELECTROMAGNETIC FIELDS

*RESULT:* Pass

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## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

## 2. Test Sites

### 2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

(Test site Industry Canada No.: 5077A-2)

F1, Bldg. A, Changyuan New Material Port  
Keyuan Rd., Science & Industry Park, Nanshan  
Shenzhen, P.R. China

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
<b>Transmitter spurious emissions &amp; Receiver spurious emissions</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2013-01-06
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2013-01-06
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2013-01-06
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2013-01-06
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2013-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2013-01-06
RF Coaxial Cable	SUHNER	N-3m	No.8	2013-01-06
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2013-01-06
RF Coaxial Cable	SUHNER	N-6m	No.10	2013-01-06
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2013-01-06
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2013-01-06
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2013-01-06
<b>Radio Spectrum Test</b>				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2013-01-06
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2013-01-06
<b>Conducted Emission</b>				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-06
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2013-01-06
L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	2013-01-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2013-01-06
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2013-01-06
RF Coaxial Cable	SUHNER	N-2m	No.3	2013-01-06
<b>Radiated Emission</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2013-01-06
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2013-01-06
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2013-01-06
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2013-01-06
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2013-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2013-01-06
RF Coaxial Cable	SUHNER	N-3m	No.8	2013-01-06
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2013-01-06
RF Coaxial Cable	SUHNER	N-6m	No.10	2013-01-06
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2013-01-06
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2013-01-06
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2013-01-06

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty
Radio Spectrum	< ± 0.60 dB
Radiated emission of transmitter, valid up to 12.75 GHz	< ± 4.42 dB
Radiated emission of receiver, valid up to 12.75 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 4.42 dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a wireless base station (transmitter) used with a headset (receiver) for audio entertainment in house or similar environment. It operates at 2.4GHz ISM frequency band.

There are two alternative AC/DC adapter.

For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

Technical Specification	Value
Kind of Equipment	2.4G Wireless Headset with Base Station
Type Designation	RF-WHP212
FCC ID	ZXCWL199
IC ID	9854A-WL199
Operating Frequency band	2406MHz ~ 2472MHz
Channel separation	2MHz
Extreme Temperature Range	0~+55°C
Operation Voltage	DC 5V
Modulation	GFSK
Antenna Gain	2dBi

**Table 4: Frequency hopping information**

Technical Specification	Description
Hopping Sequence	Channel frequency: 2406, 2420, 2422, 2424, 2426, 2428, 2444, 2446, 2448, 2450, 2452, 2456, 2468, 2470, 2472MHz; Sequence exsample 1: 2406, 2422, 2420, 2426, 2428, 2444, 2424, 2446, 2450, 2452, 2448, 2472, 2456, 2468, 2470 MHz; Sequence exsample 2: 2420, 2422, 2406, 2426, 2428, 2444, 2450, 2424, 2446, 2452, 2472, 2448, 2456, 2470, 2468 MHz; Sequence exsample 3: 2422, 2420, 2426, 2406, 2424, 2428, 2444, 2450, 2448, 2452, 2446, 2472, 2468, 2470, 2456 MHz;

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting
- B. Audio input & output
- C. Charging for receiver
- D. Standby
- E. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- |                    |                      |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram    |
| - PCB Layout       | - Instruction Manual |
| - Photo Document   | - Rating Label       |

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

### 4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC Adapter	DBK	DS0500500W	Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5V, 500mA
AC/DC Adapter	SIL	SSA-6P-09 US 050050	Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5V, 500mA

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Mains of adapter	2 cores, non-shielded port, 3m	AC Power Input
DC power port of EUT	2 cores, non-shielded port, 3m	DC Power Input
Audio input	2 cores, non-shielded port, 3m	Audio Input
Audio output	2 cores, non-shielded port, 3m	Audio Output

### 4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

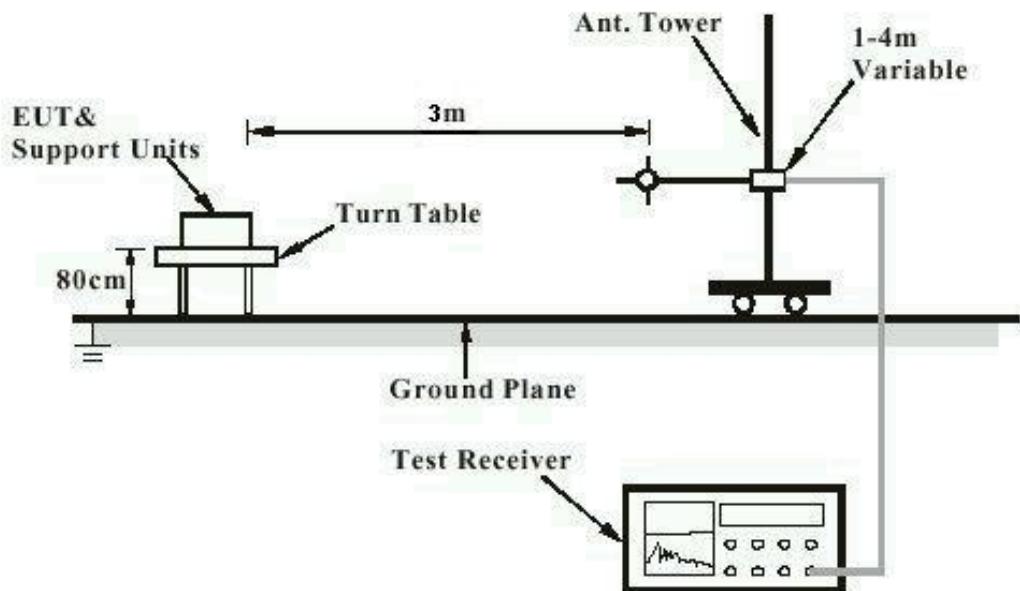
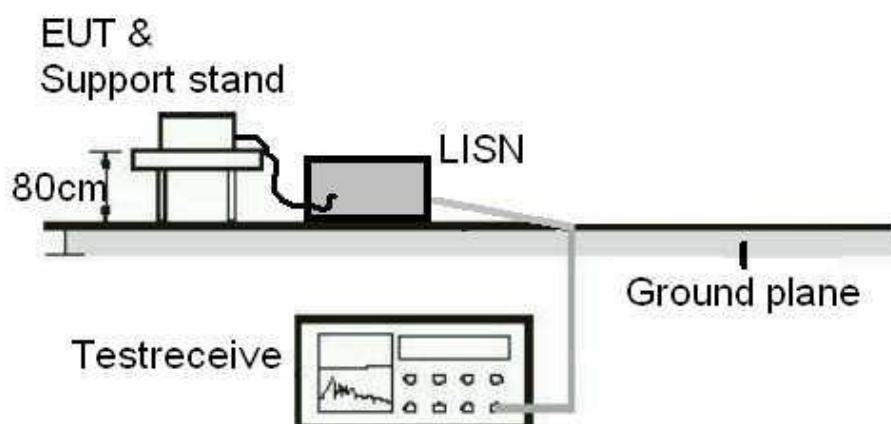


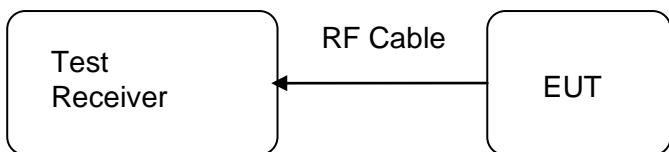
Diagram of Measurement Equipment Configuration for Conduction Measurement



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**Diagram of Measurement Equipment Configuration for Transmitter Measurement**



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:** Pass

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 7.1.4
Limit	:	the use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

**Prüfbericht - Nr.:** 17025498 001  
*Test Report No.*Seite 14 von 100  
Page 14 of 100**5.1.2 Peak Output Power****RESULT:****Pass**

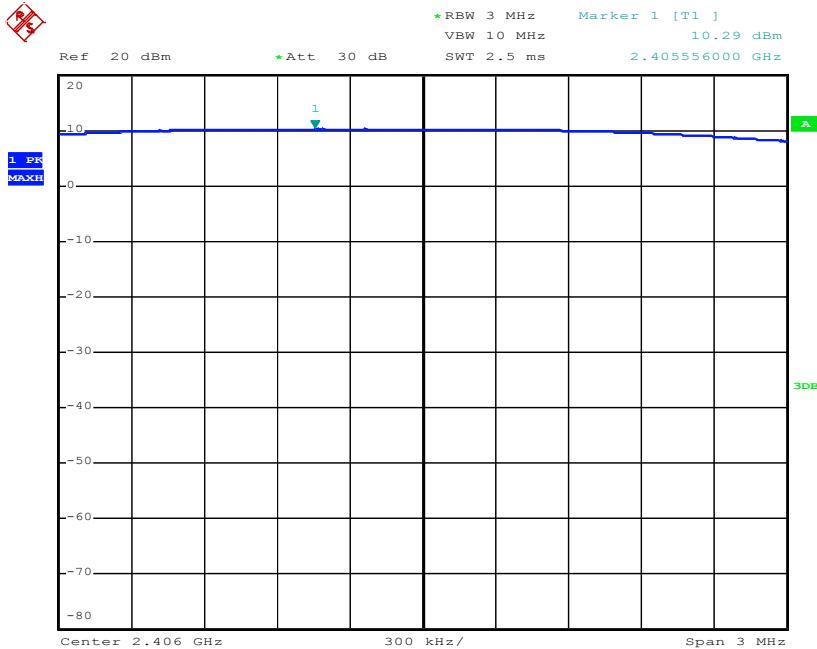
Test date : 2012-05-18  
Test standard : FCC Part 15.247(b)(1)  
RSS-210 A8.4(2)  
Basic standard : ANSI C63.4: 2003  
Limit : 125mW  
Kind of test site : Shielded room

**Test setup**

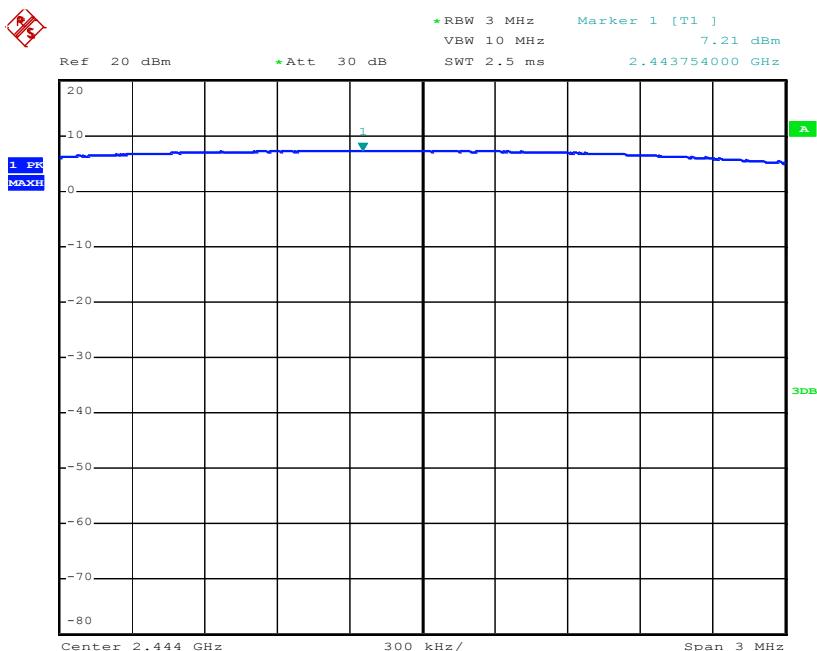
Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

**Table 5: Test result of Peak Output Power**

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm/W)
Low Channel	2406	12.43	21
Middle Channel	2444	9.35	21
High Channel	2472	9.41	21

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**Test Plot of Peak Output Power**  
**Low Channel**


Date: 18.MAY.2012 21:06:35

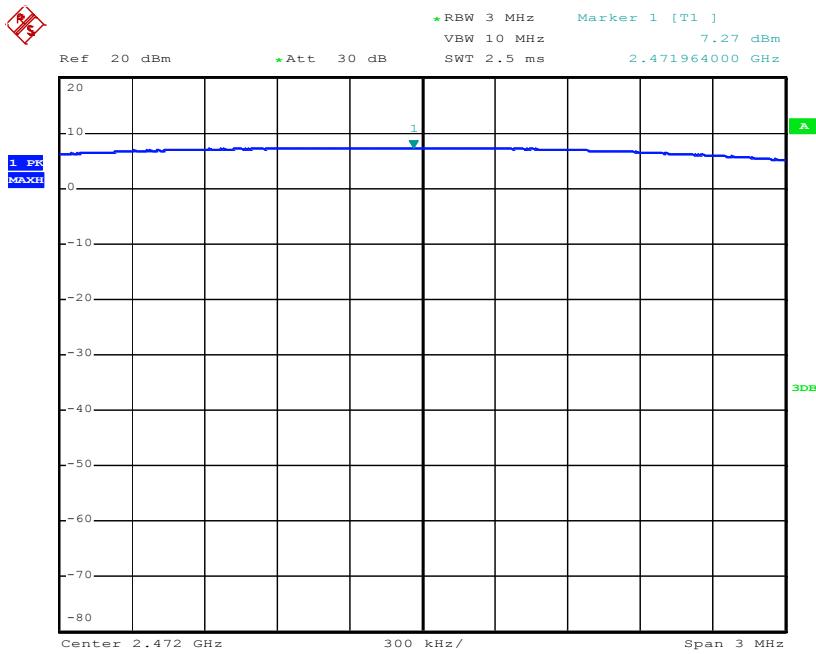
**Middle Channel**


Date: 18.MAY.2012 21:22:38

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**High Channel**



Date: 18.MAY.2012 21:05:05

**Prüfbericht - Nr.:** 17025498 001  
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Page 17 of 100**5.1.3 20dB Bandwidth and 99% Bandwidth****RESULT:****Pass**

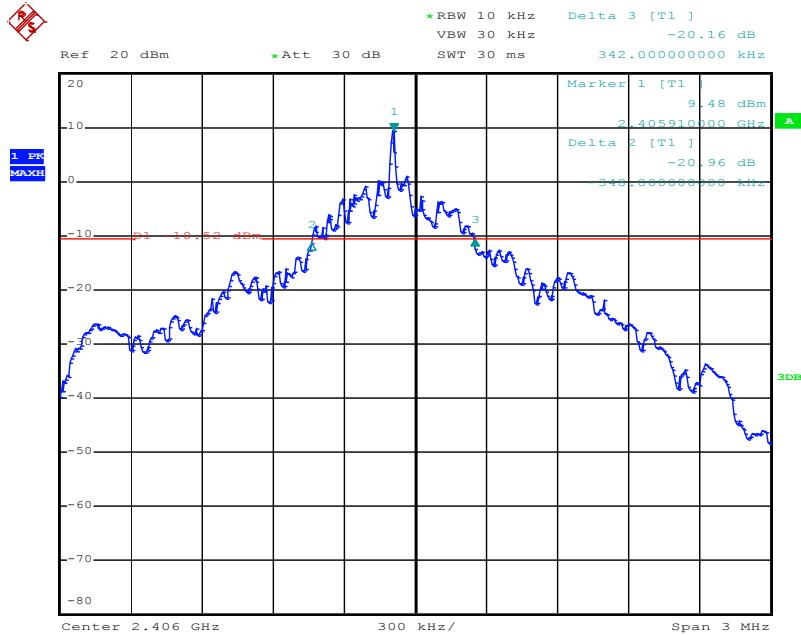
Date of testing : 2012-05-18  
Test standard : FCC Part 15.247(a)(1)  
Basic standard : RSS-210 A8.1(a)  
Kind of test site : ANSI C63.4: 2003  
                  : Shielded room

**Test setup**

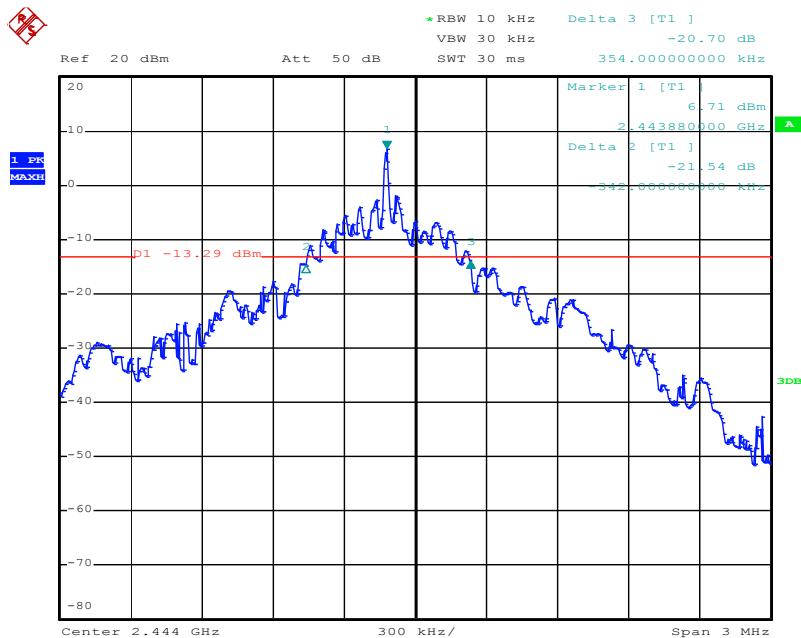
Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

**Table 6: Test result of 20dB & 99% Bandwidth**

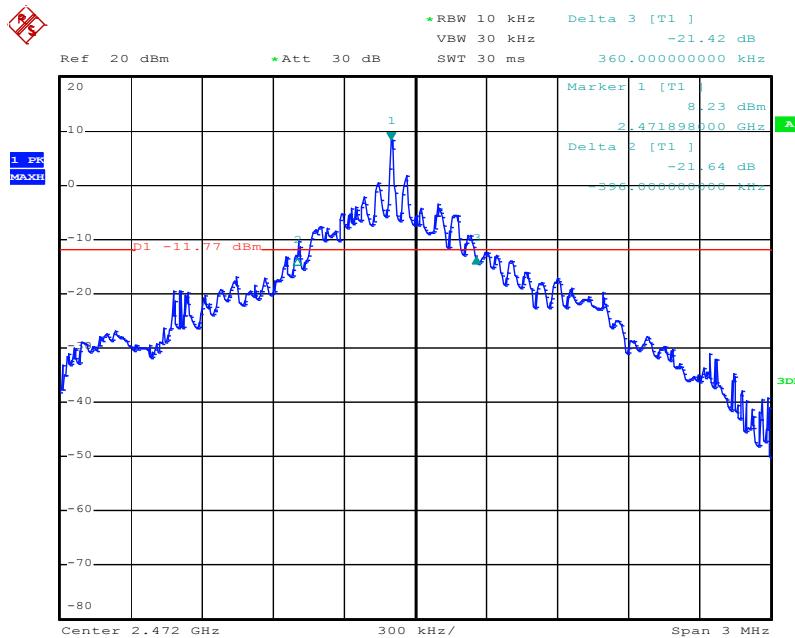
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2406	0.682	1.78
Mid Channel	2444	0.696	1.79
High Channel	2472	0.756	1.92

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**Test Plot of 20dB Bandwidth**  
**Low Channel**


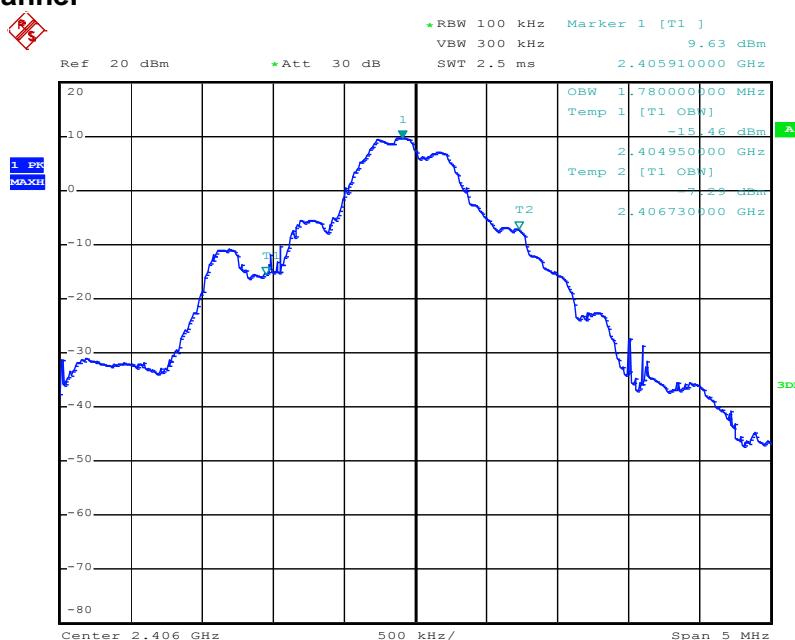
Date: 12.APR.2012 18:56:38

**Middle Channel**


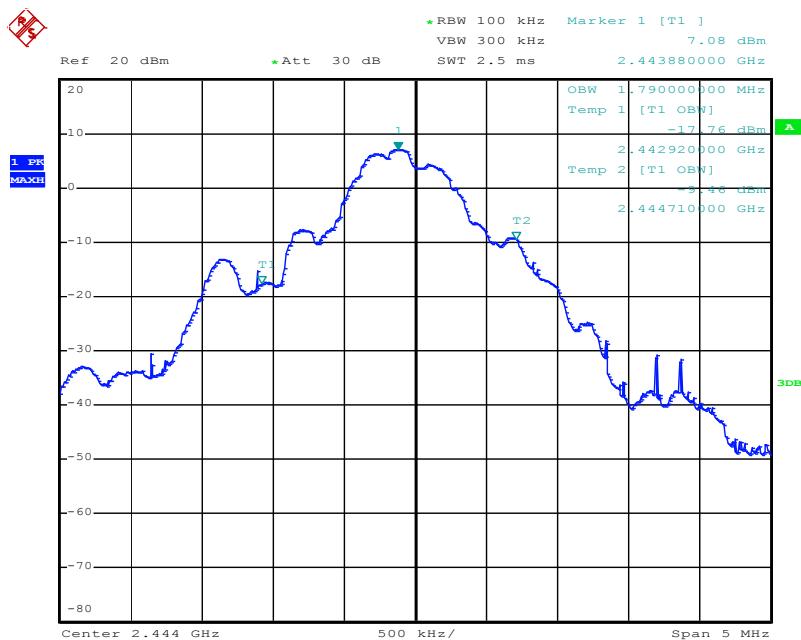
Date: 18.MAY.2012 19:50:32

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**High Channel**


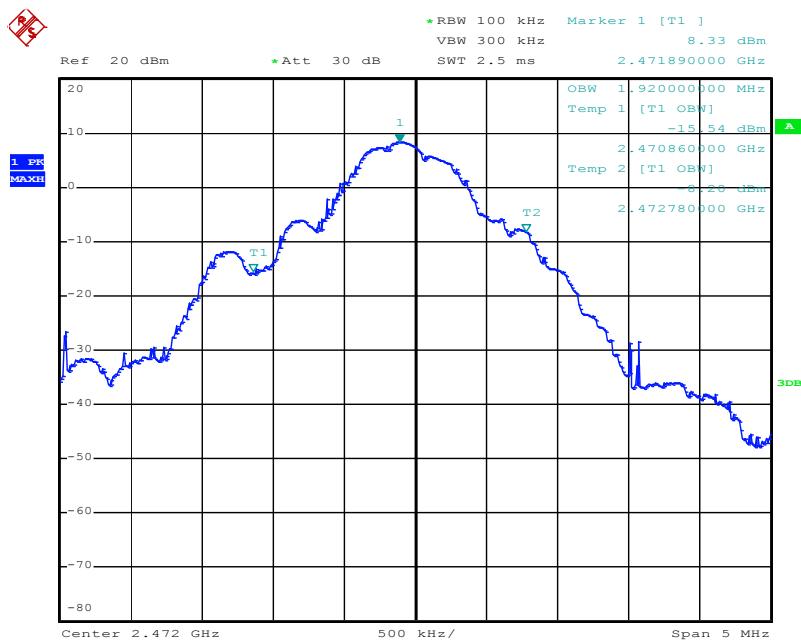
Date: 12.APR.2012 19:07:32

**Test Plot of 99% Bandwidth**  
**Low Channel**


Date: 12.APR.2012 18:59:48

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**Middle Channel**


Date: 18.MAY.2012 21:29:14

**High Channel**


Date: 12.APR.2012 19:10:13

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### 5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth

#### RESULT:

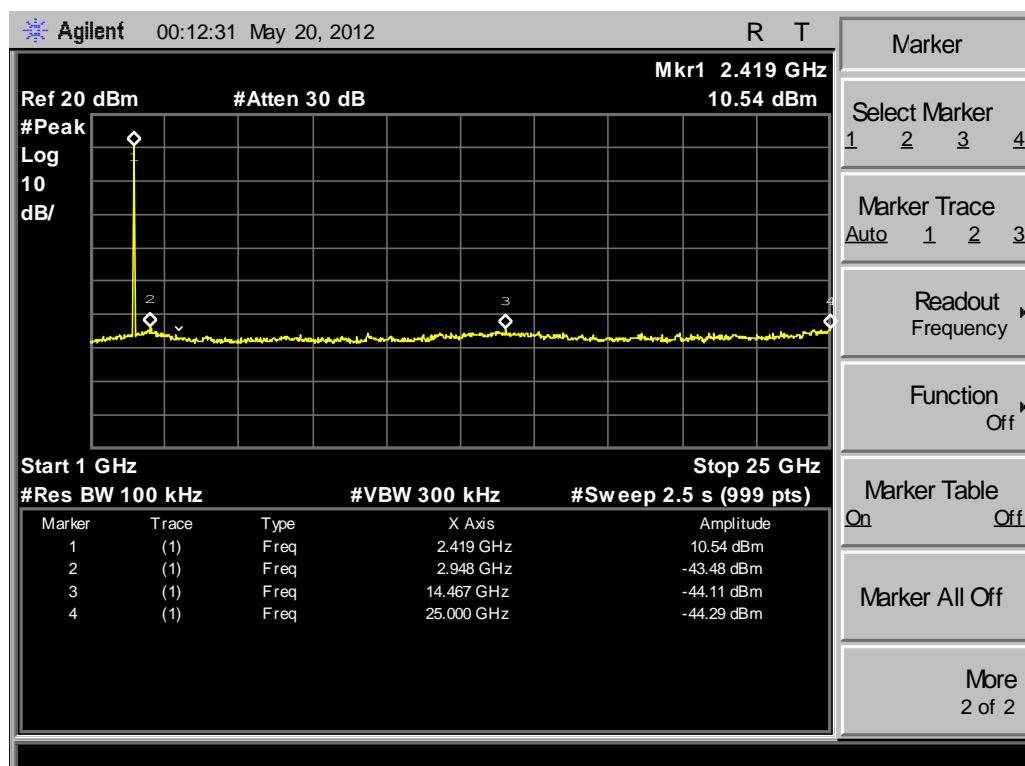
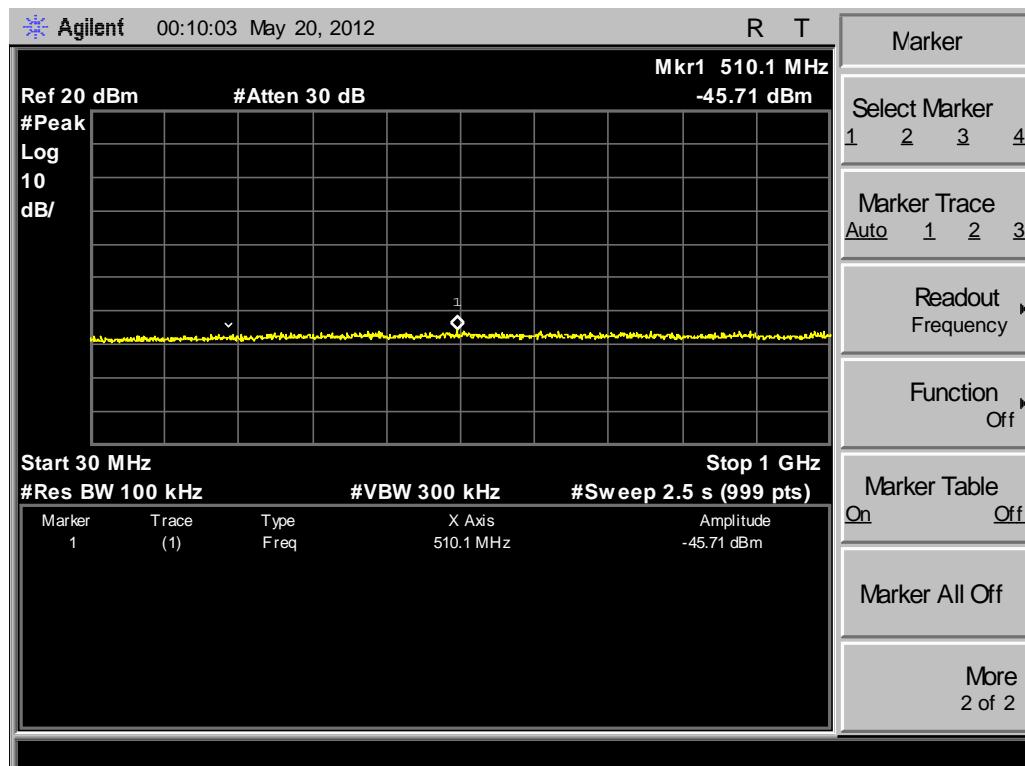
Pass

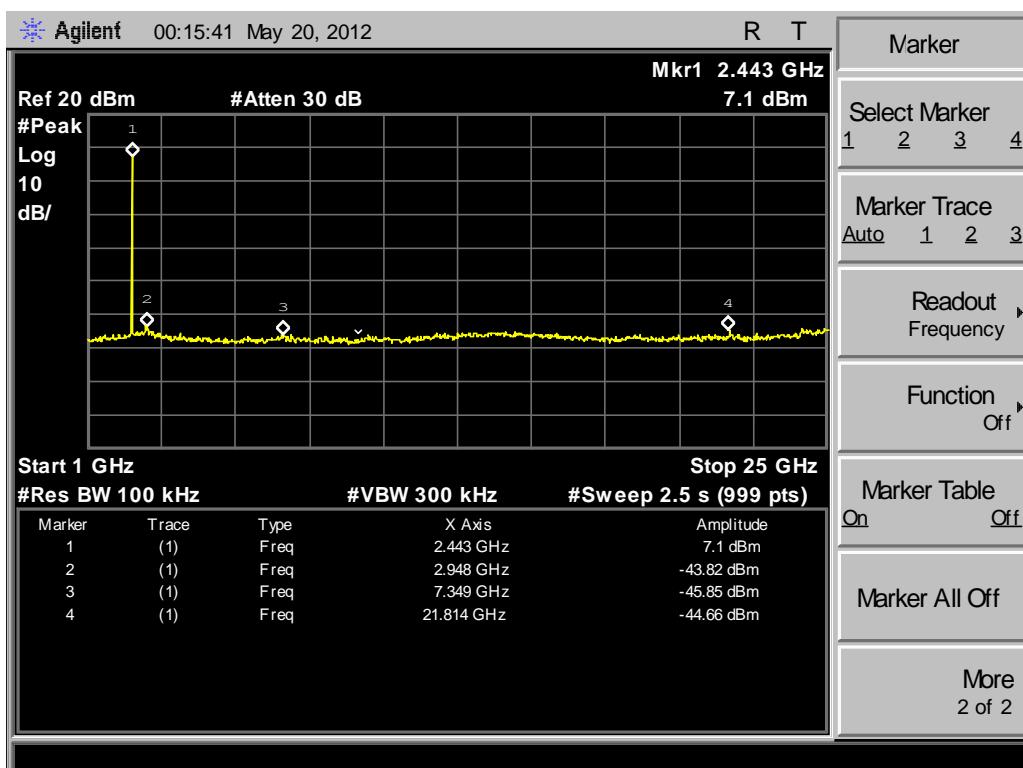
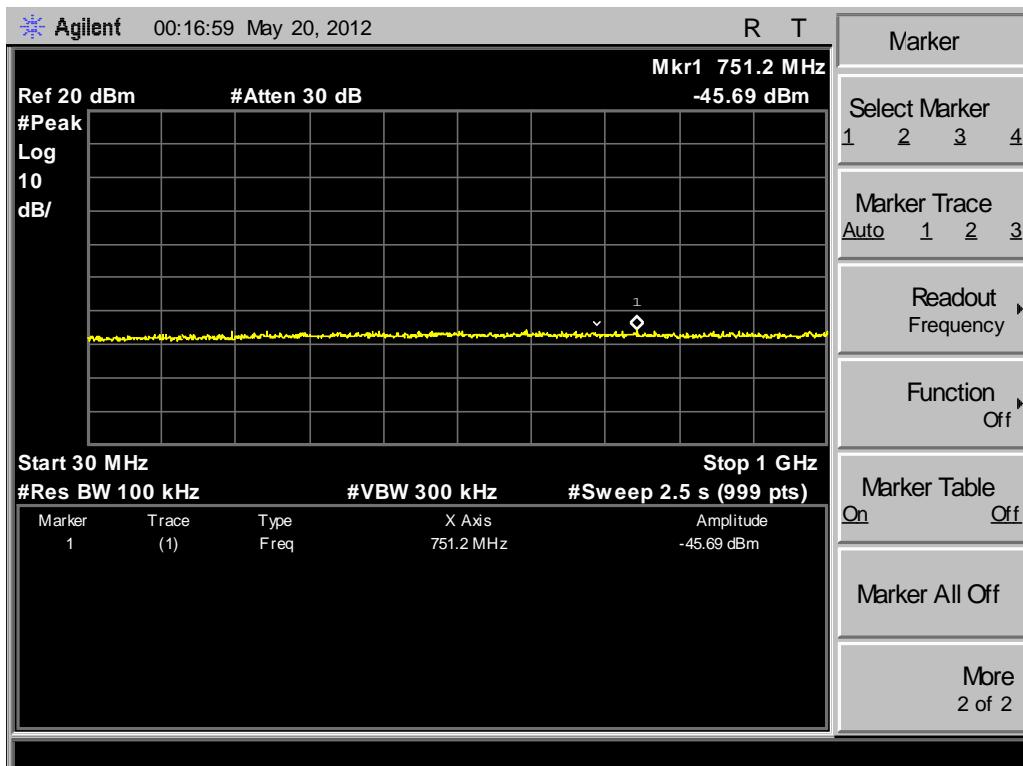
Date of testing	:	2012-05-20
Test standard	:	FCC part 15.247(d) RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

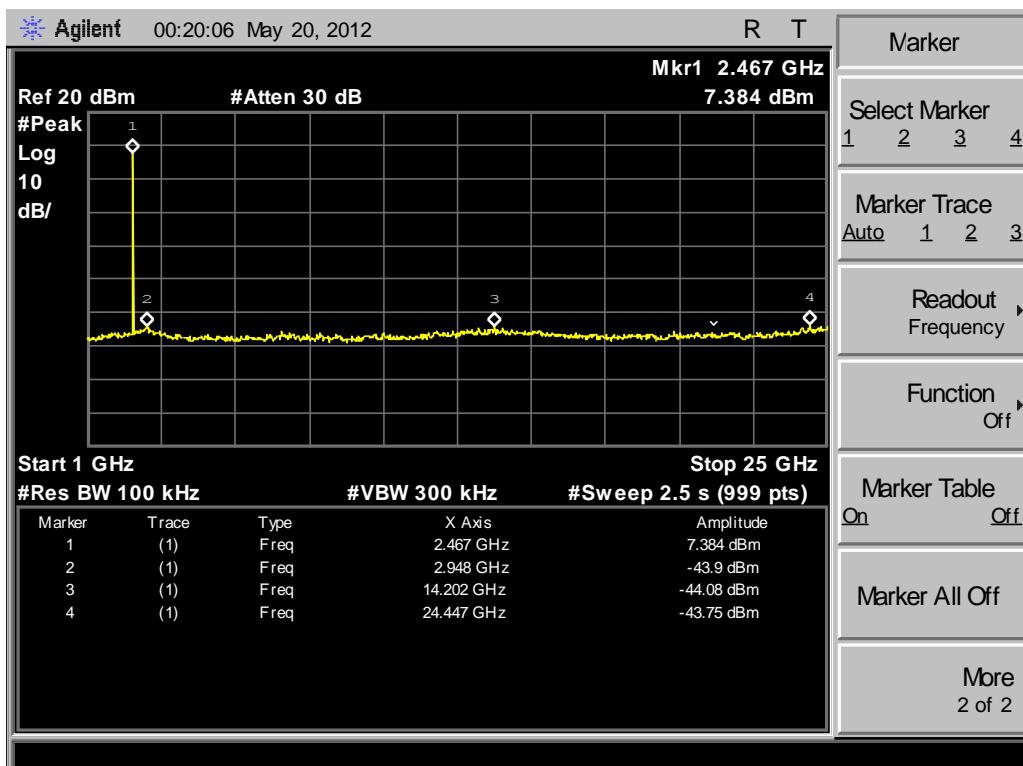
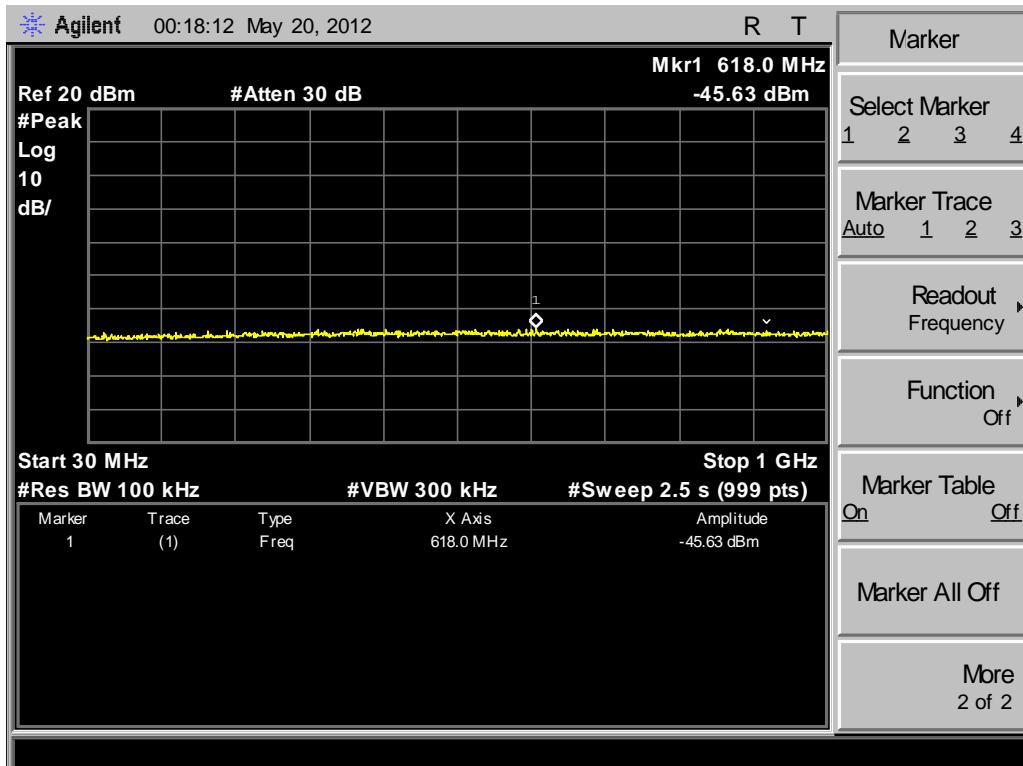
#### Test setup

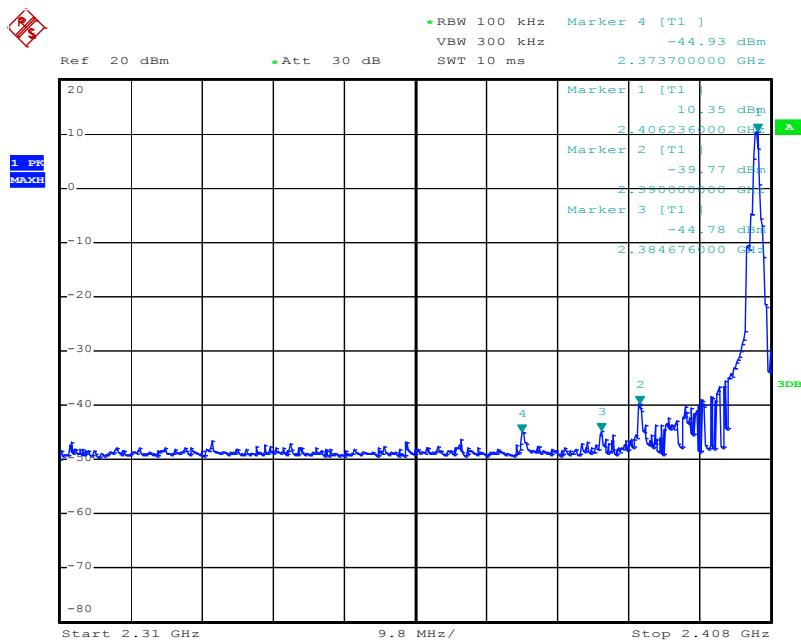
Test Channel	:	Low/ Middle/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

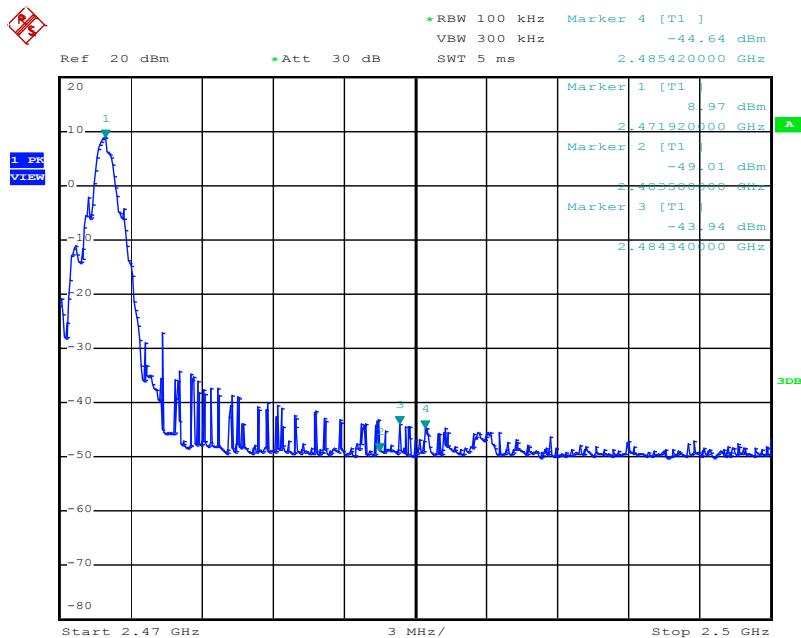
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**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth**
**Low Channel**


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**High Channel**


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**Test Plot of 100 kHz Bandwidth of Frequency Band Edge**
**Low Channel**


Date: 12.APR.2012 18:52:46

**High Channel**


Date: 12.APR.2012 18:35:36

### 5.1.5 Spurious Emission

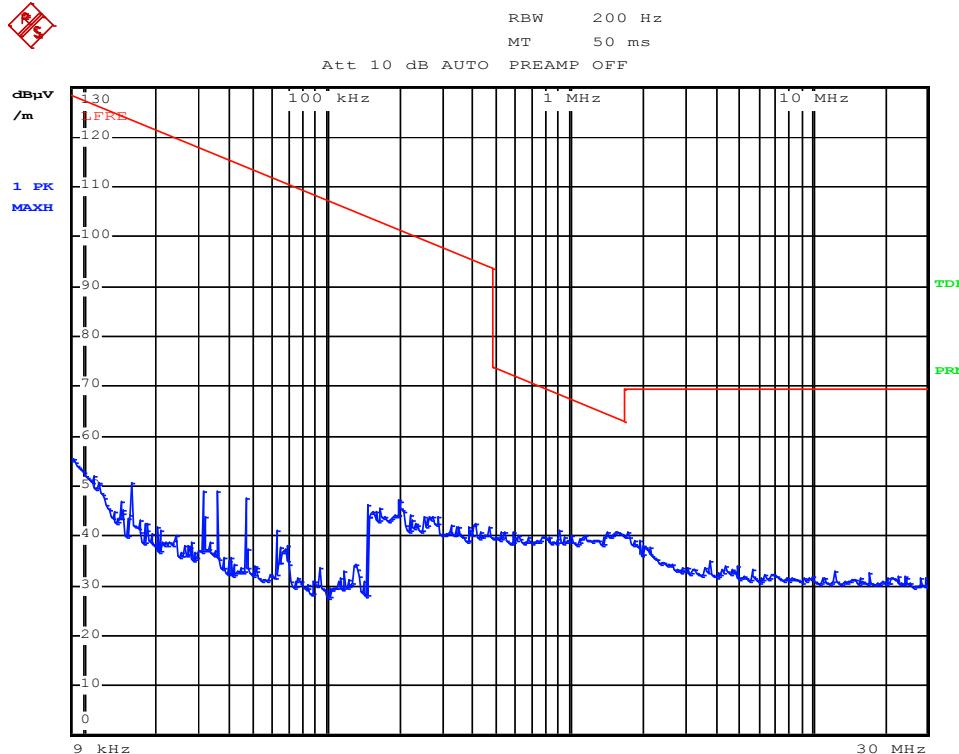
**RESULT:****Pass**

Date of testing	:	2012-05-20
Test standard	:	FCC part 15.247(d) RSS-210 Clause 2.2
Basic standard	:	ANSI C63.4: 2003
Limits	:	FCC part 15.209(a) ICES-003 Issue 4 February 2004
Kind of test site	:	3m Semi-Anechoic Chamber

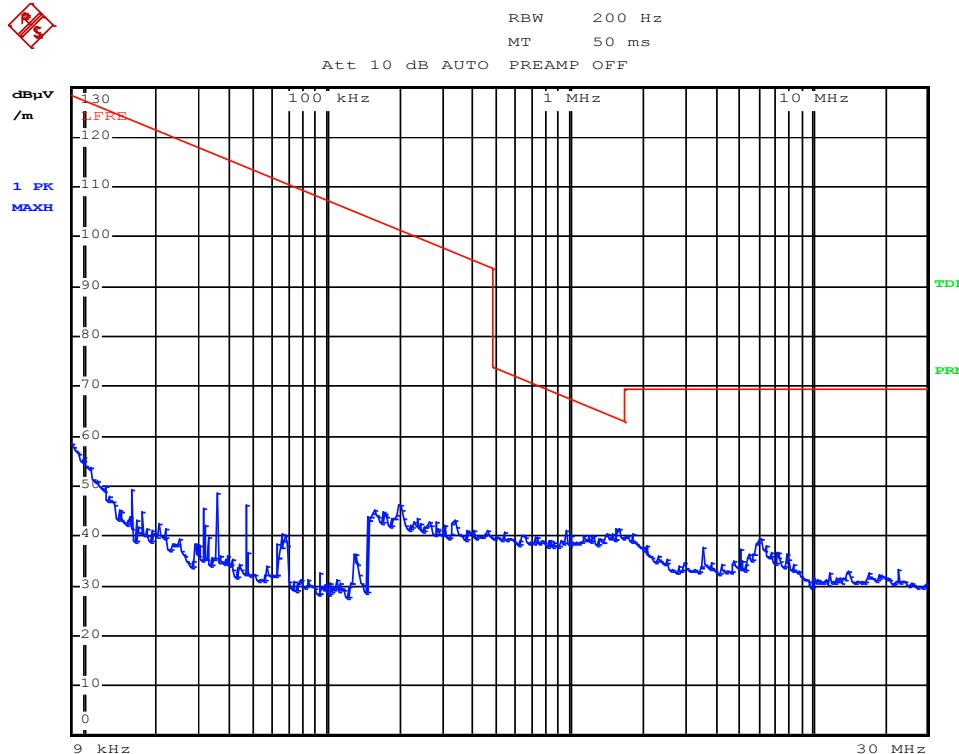
**Test setup**

Test Channel	:	Low/ Middle/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

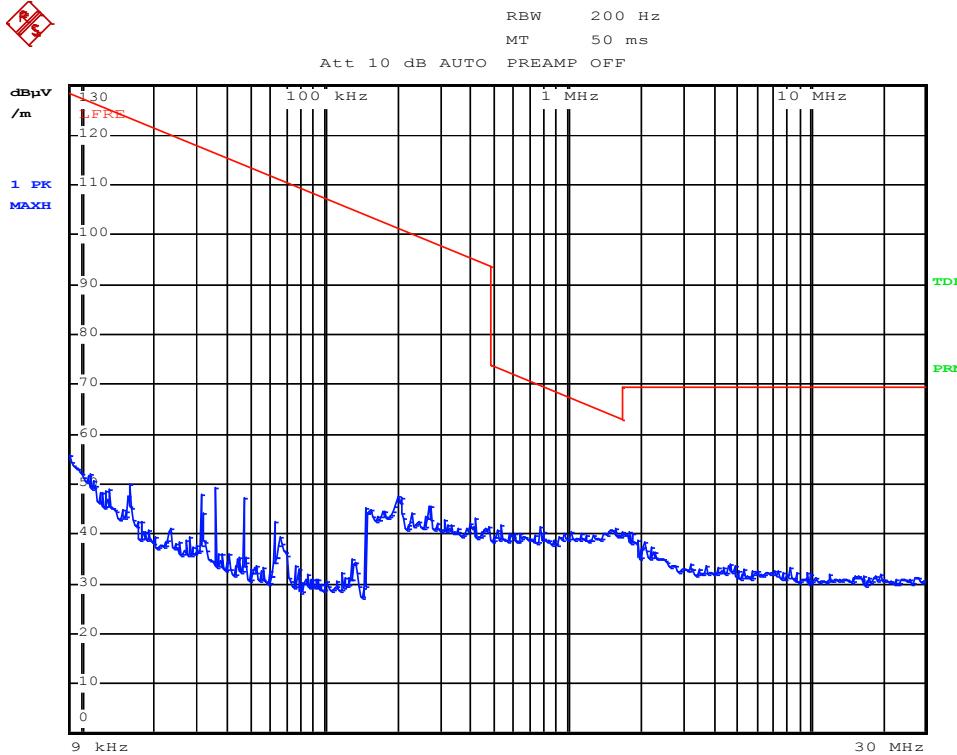
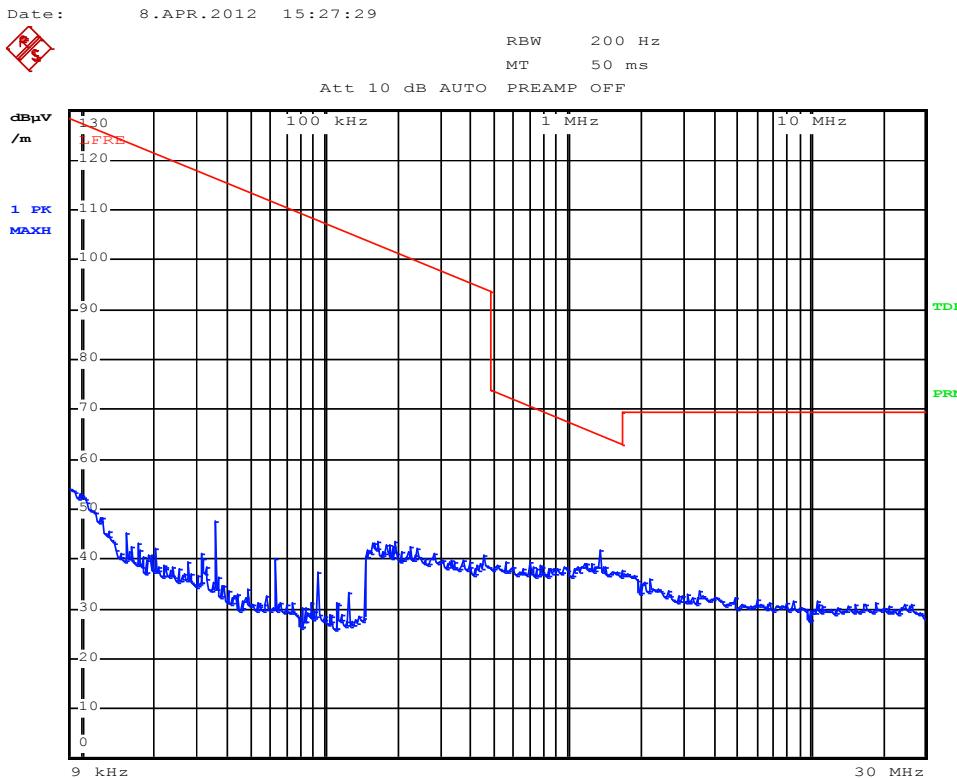
For details refer to following test plot.

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**Test Plot of Radiated emissions**


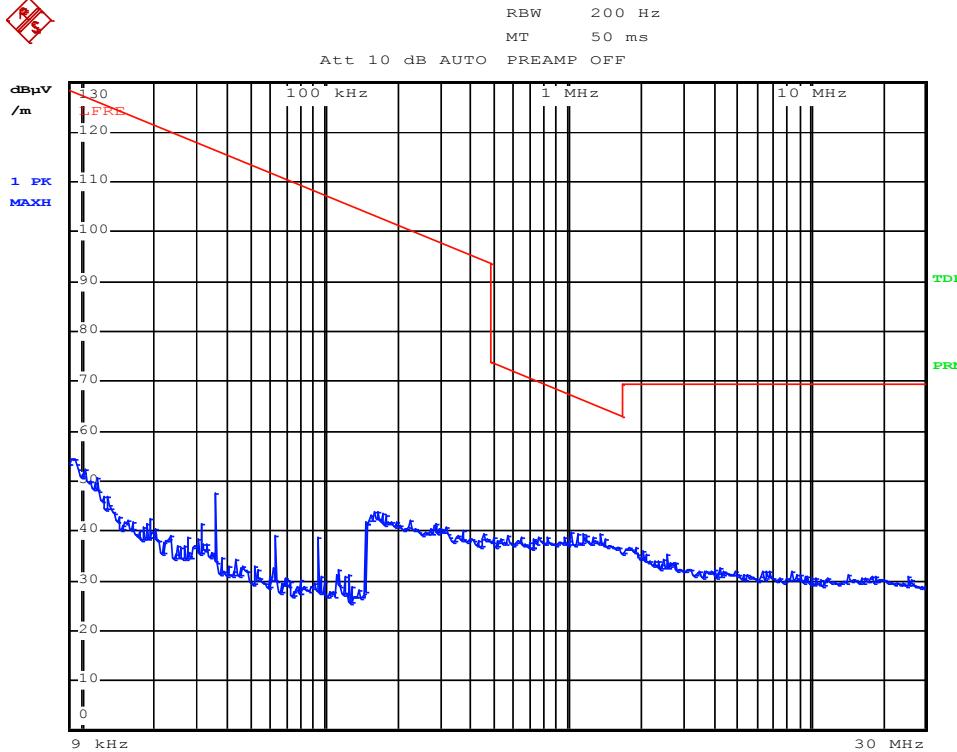
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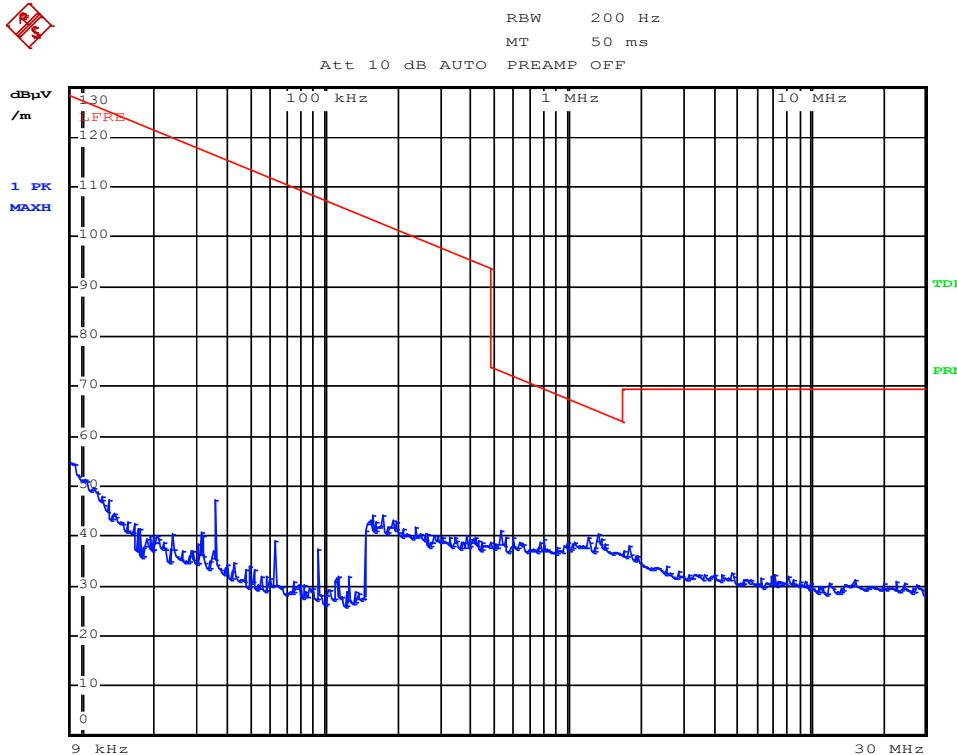
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 TDF  
 PRN

 TDF  
 PRN

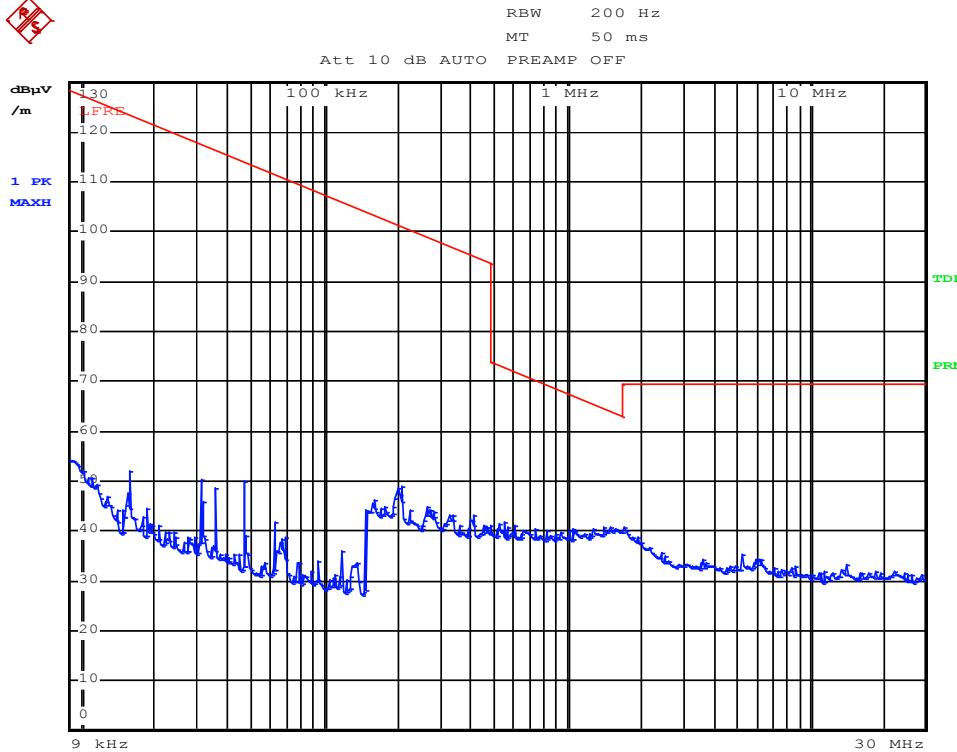
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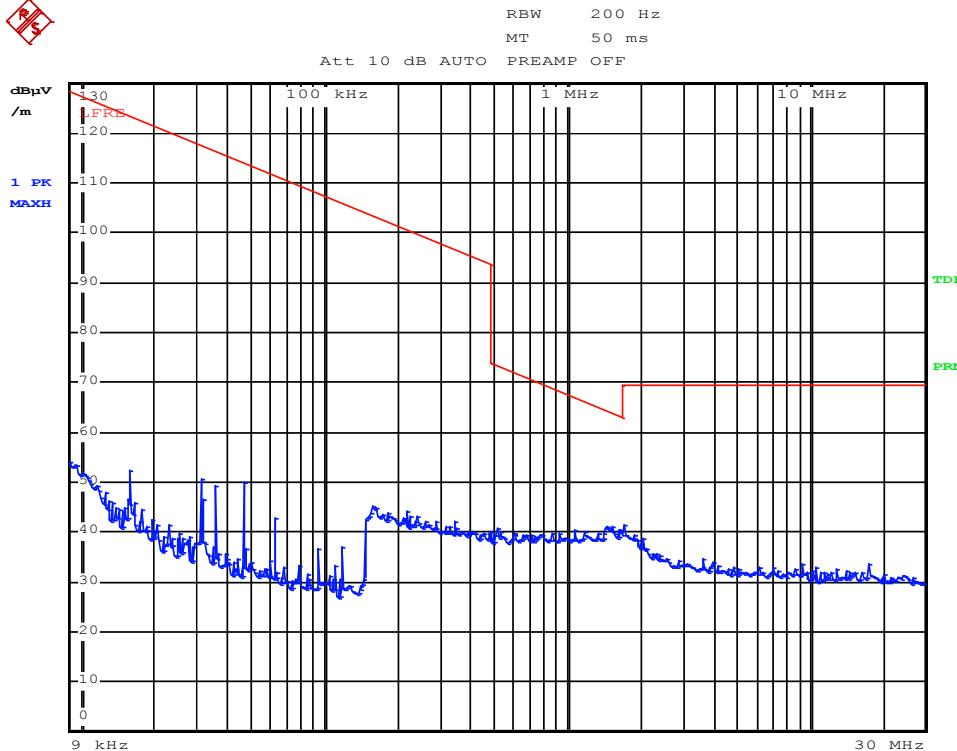
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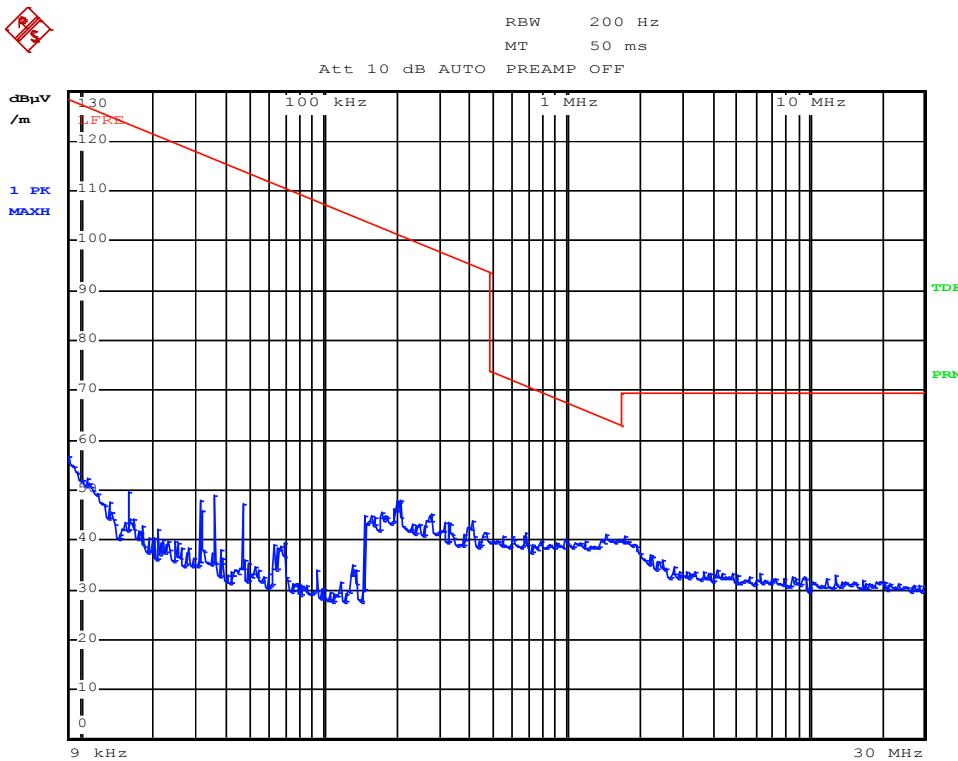
Date: 26.APR.2012 02:56:01

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Date: 8.APR.2012 15:43:38



Date: 8.APR.2012 15:46:24

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Date: 8.APR.2012 15:34:34

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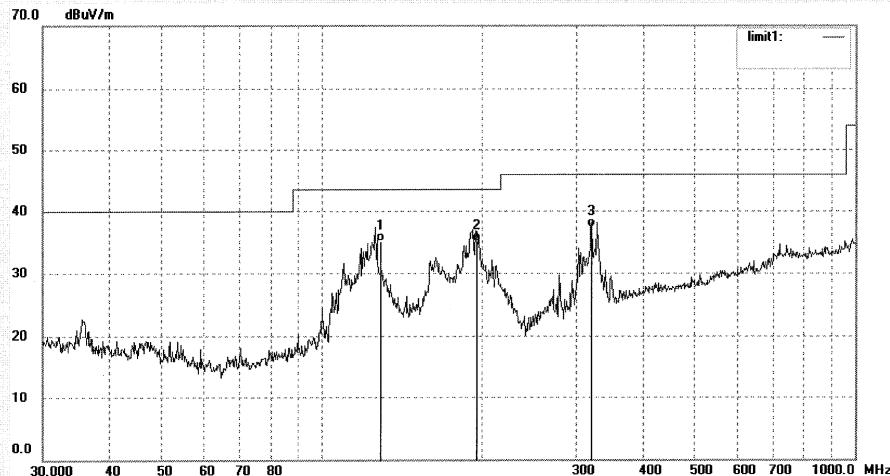
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7965	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 8:33:59
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2406MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	128.1232	20.13	14.97	35.10	43.50	-8.40	QP			
2	195.6437	19.06	16.02	35.08	43.50	-8.42	QP			
3	319.9858	17.96	19.33	37.29	46.00	-8.71	QP			

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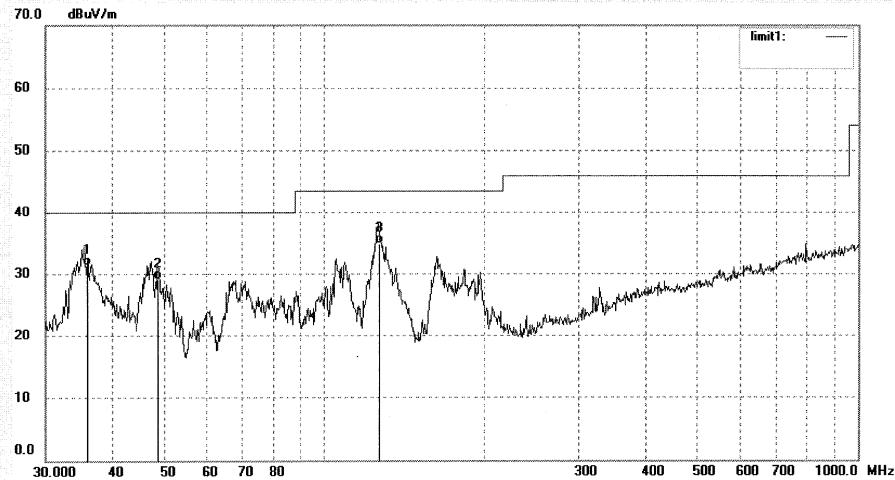
**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7966	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 8:43:46
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2406MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.1365	14.84	16.61	31.45	40.00	-8.55	QP			
2	48.7879	14.30	14.82	29.12	40.00	-10.88	QP			
3	127.9497	20.03	14.97	35.00	43.50	-8.50	QP			

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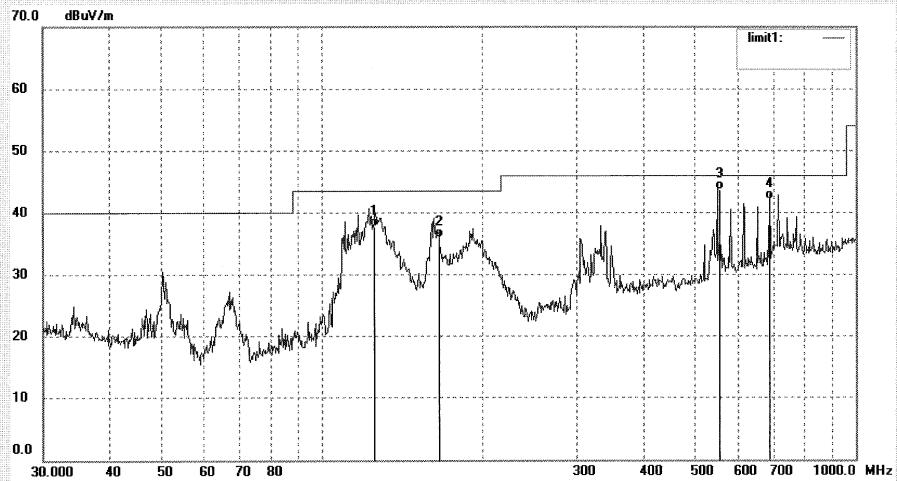
**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: pei #8653	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/05/20/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 0/51/39
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2444MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	125.3189	22.68	15.05	37.73	43.50	-5.77	QP			
2	164.6891	21.38	14.66	36.04	43.50	-7.46	QP			
3	559.9811	18.30	25.36	43.66	46.00	-2.34	QP			
4	687.9645	15.64	26.37	42.01	46.00	-3.99	QP			

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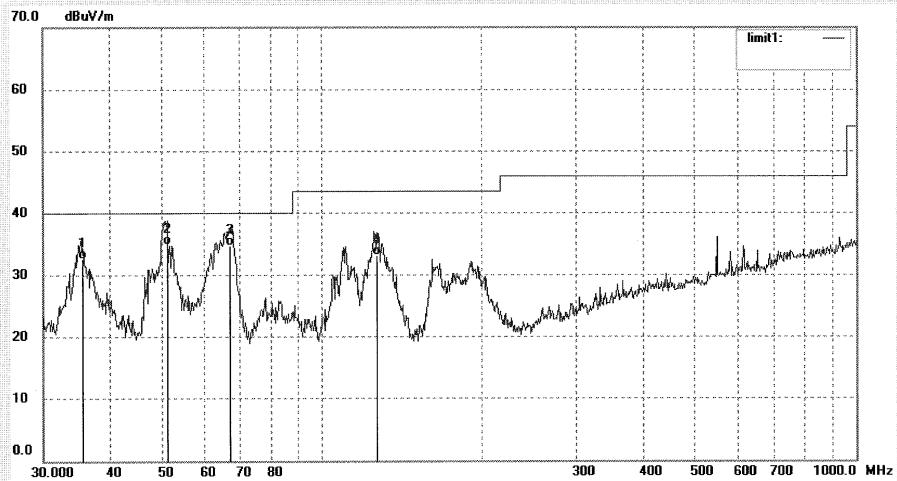
**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: pei #8654	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/05/20/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 0/59/10
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2444MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.7553	15.98	16.63	32.61	40.00	-7.39	QP			
2	51.3173	20.80	14.10	34.90	40.00	-5.10	QP			
3	67.1931	22.21	12.55	34.76	40.00	-5.24	QP			
4	127.2902	18.10	14.99	33.09	43.50	-10.41	QP			

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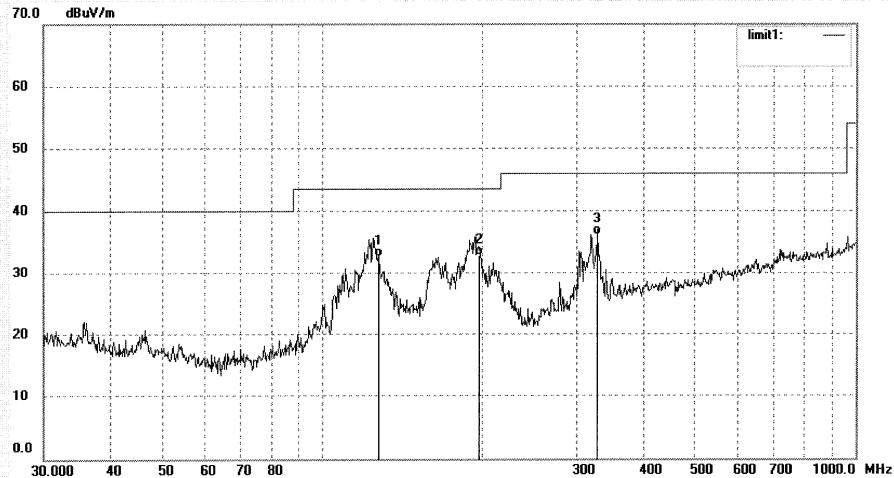
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.:	pei #7969	Polarization:	Horizontal
Standard:	FCC Part 15 Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2012/04/08
Temp. (°C)/Hum.(%)	24°C / 48%	Time:	9:12:50
EUT:	2.4GHz Digital Wireless Stereo Headphones	Engineer Signature:	PEI
Mode:	TX 2472MHz	Distance:	3m
Model:	RF-WHP212		
Manufacturer:	Shenzhen Horn Audio Co., Ltd.		

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	127.5168	17.59	14.99	32.58	43.50	-10.92	QP			
2	196.8163	16.80	16.02	32.82	43.50	-10.68	QP			
3	329.6004	16.32	19.74	36.06	46.00	-9.94	QP			

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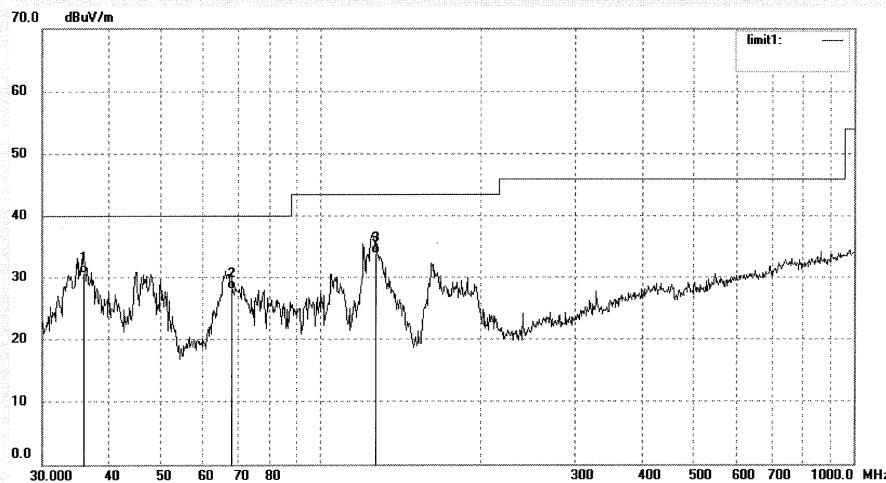
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7970	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 9:22:37
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2472MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.8875	14.02	16.63	30.65	40.00	-9.35	QP			
2	68.2115	15.38	12.67	28.05	40.00	-11.95	QP			
3	127.3846	18.96	14.98	33.94	43.50	-9.56	QP			

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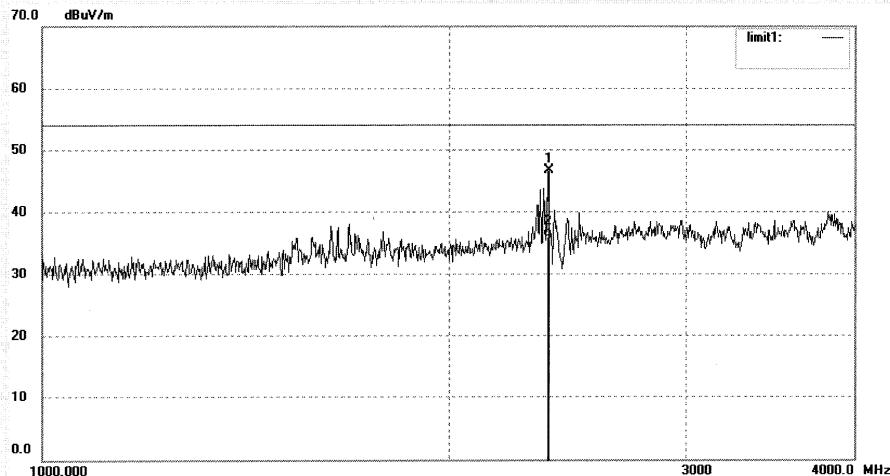
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7971	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 9:30:25
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2406MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2373.961	54.26	-7.63	46.63	74.00	-27.37	peak			
2	2373.961	43.53	-7.63	35.90	54.00	-18.10	AVG			

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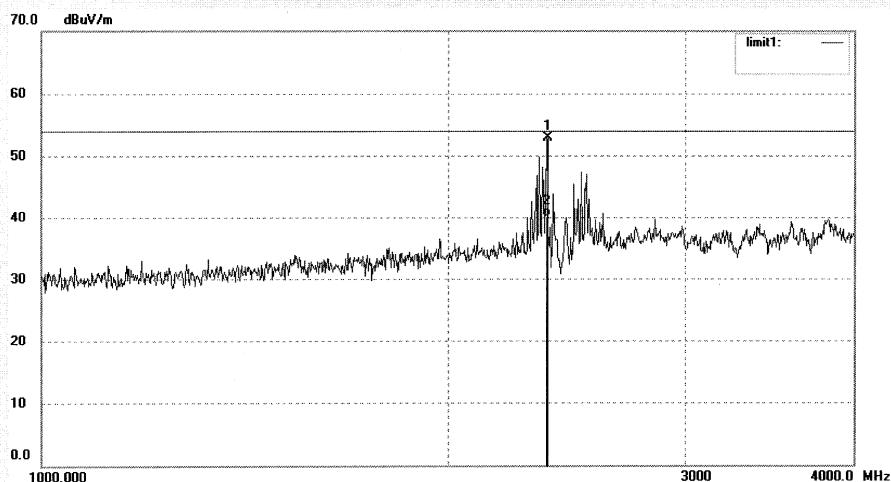
**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: pei #7972	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 9:38:03
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2406MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2373.780	60.50	-7.63	52.87	74.00	-21.13	peak			
2	2373.780	47.83	-7.63	40.20	54.00	-13.80	AVG			

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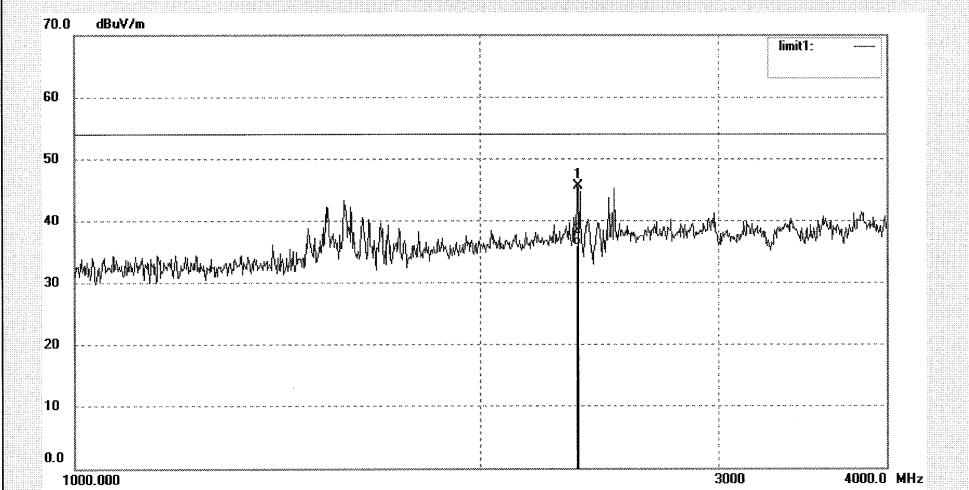
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8655	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/05/20/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 1/08/30
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2444MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	
Note:	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2363.627	53.35	-7.70	45.65	54.00	-8.35	peak			
2	2363.627	43.70	-7.70	36.00	54.00	-18.00	AVG			

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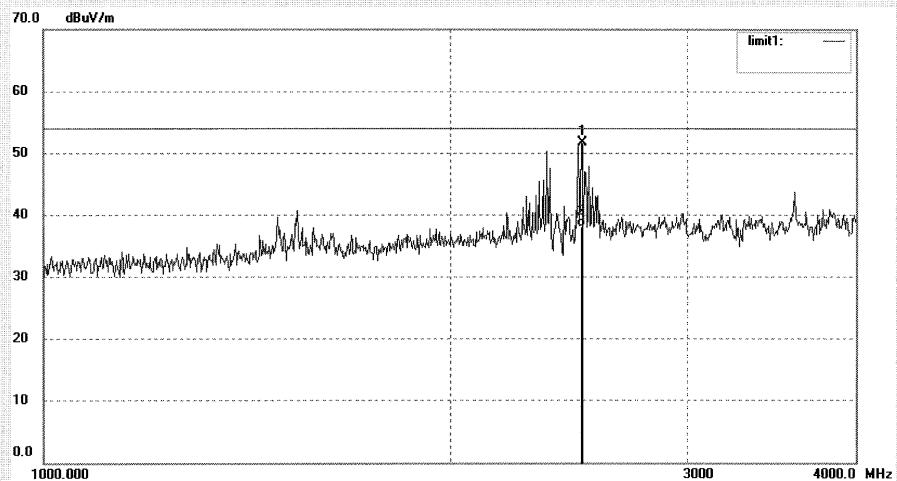
**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: pei #8656	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/05/20/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 1/17/26
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2444MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2507.980	59.13	-7.33	51.80	54.00	-2.20	peak			
2	2507.980	45.33	-7.33	38.00	54.00	-16.00	AVG			

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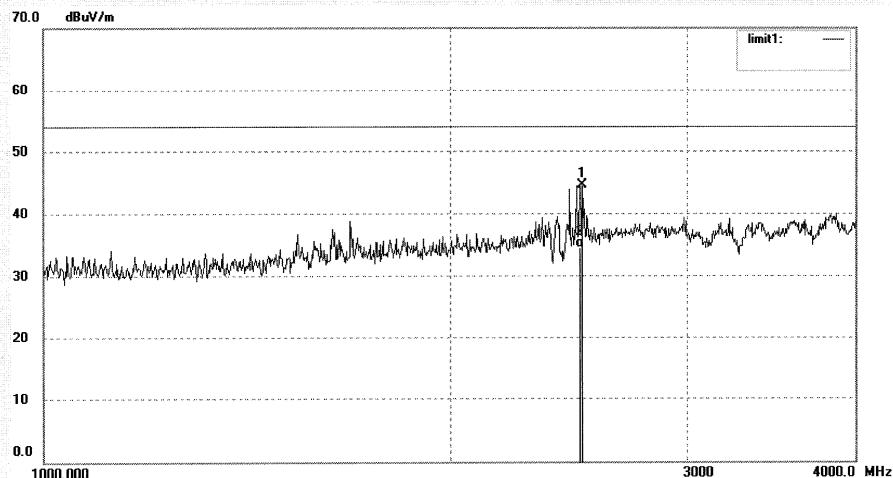
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7975	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 10:08:39
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2472MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2504.083	51.98	-7.36	44.62	74.00	-29.38	peak			
2	2504.083	41.96	-7.36	34.60	54.00	-19.40	AVG			

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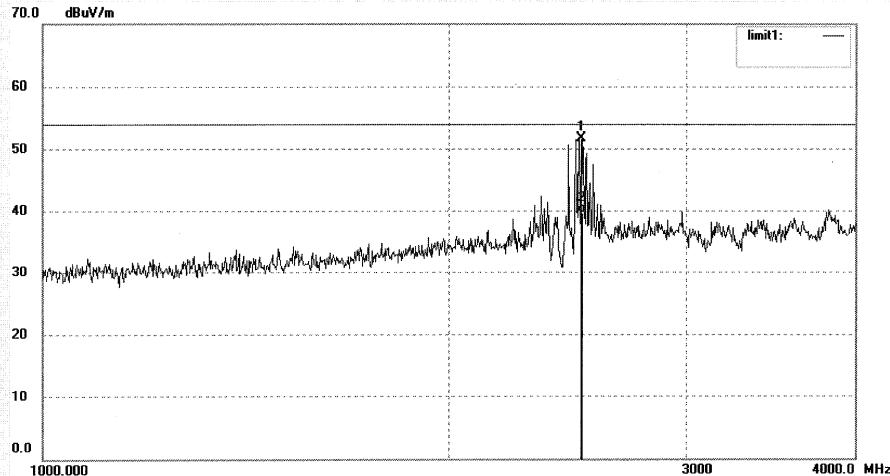
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7976	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 10:16:43
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2472MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2503.925	59.06	-7.36	51.70	74.00	-22.30	peak			
2	2503.925	47.06	-7.36	39.70	54.00	-14.30	AVG			

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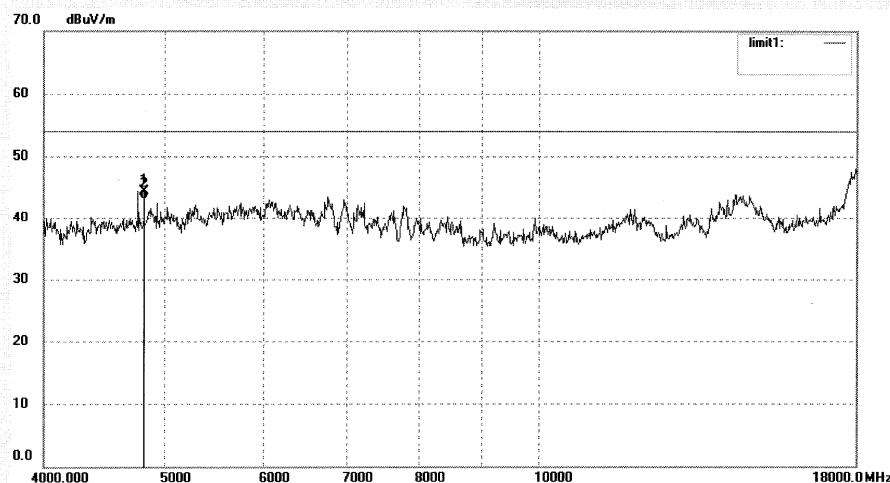
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7982	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 11:10:29
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2406MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4811.770	44.69	-0.25	44.44	74.00	-29.56	peak			
2	4811.770	43.45	-0.25	43.20	54.00	-10.80	AVG			

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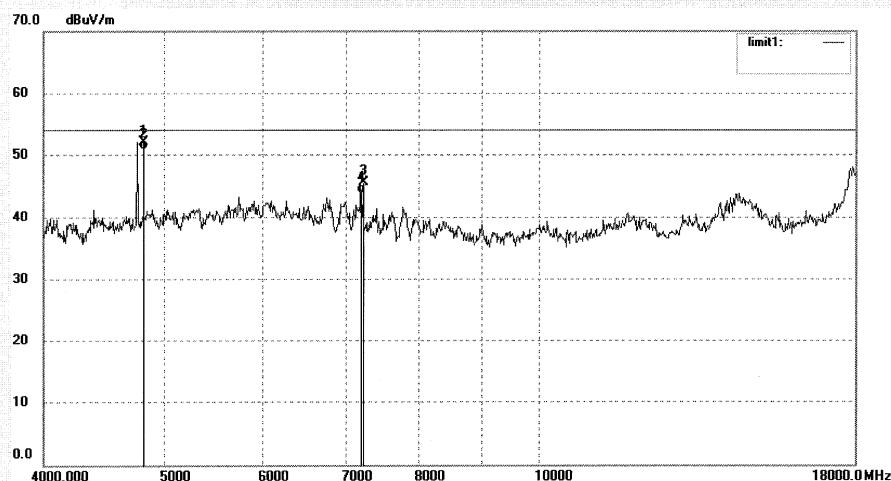
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7981	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 11:01:28
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2406MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4811.870	52.39	-0.25	52.14	74.00	-21.86	peak			
2	4811.870	51.05	-0.25	50.80	54.00	-3.20	AVG			
3	7217.757	42.54	3.00	45.54	74.00	-28.46	peak			
4	7217.757	40.80	3.00	43.80	54.00	-10.20	AVG			

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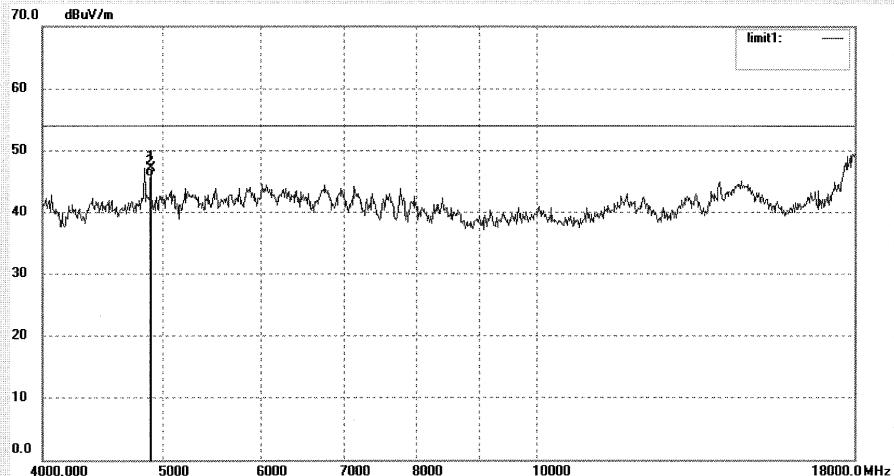
**ACCURATE TECHNOLOGY CO., LTD.**

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: pei #8658	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/05/20/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 1/38/17
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2444MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4887.808	47.04	0.17	47.21	54.00	-6.79	peak			
2	4887.808	45.63	0.17	45.80	54.00	-8.20	AVG			

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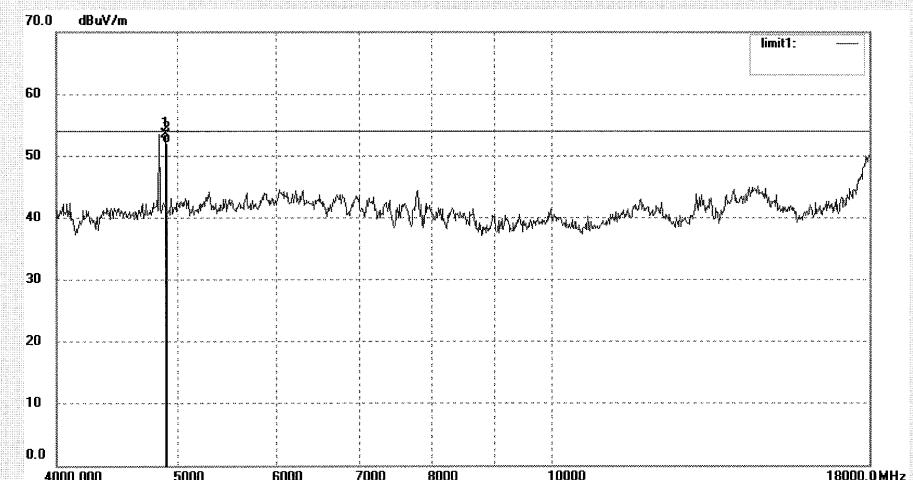
**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: pei #8657	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/05/20/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 1/25/42
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2444MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4887.813	53.25	0.17	53.42	54.00	-0.58	peak			
2	4887.813	51.93	0.17	52.10	54.00	-1.90	AVG			

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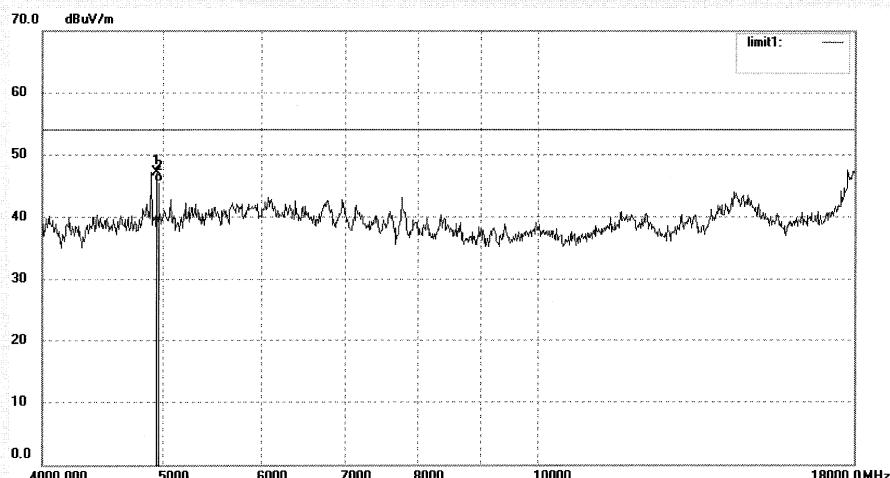
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7978	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C) / Hum. (%) 24 C / 48 %	Time: 10:33:51
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2472MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4943.790	46.75	0.43	47.18	74.00	-26.82	peak			
2	4943.790	45.17	0.43	45.60	54.00	-8.40	AVG			

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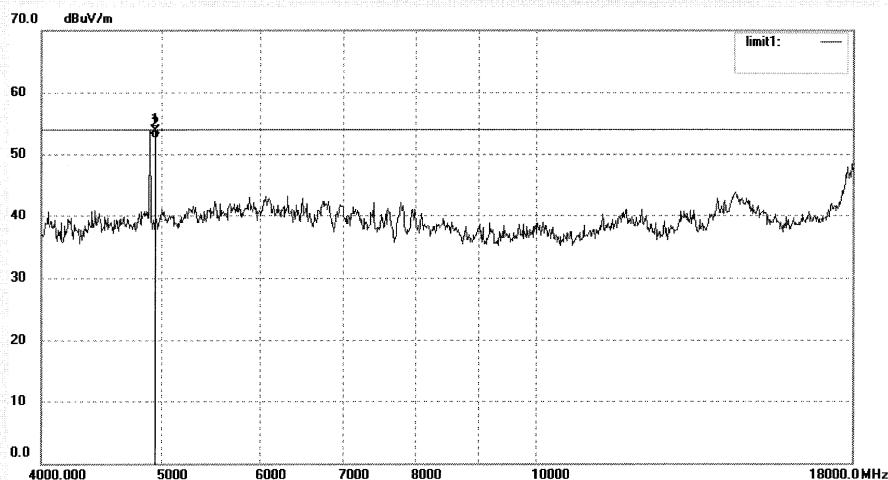
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7977	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 10:24:58
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2472MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4943.770	53.44	0.43	53.87	74.00	-20.13	peak			
2	4943.770	52.17	0.43	52.60	54.00	-1.40	AVG			

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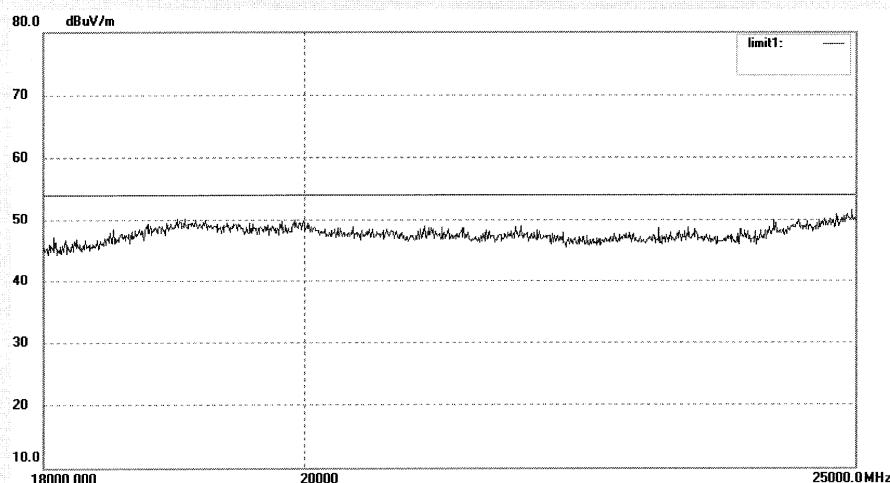
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7983	Polarization: Horizontal
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/04/08
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 11:17:01
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2406MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



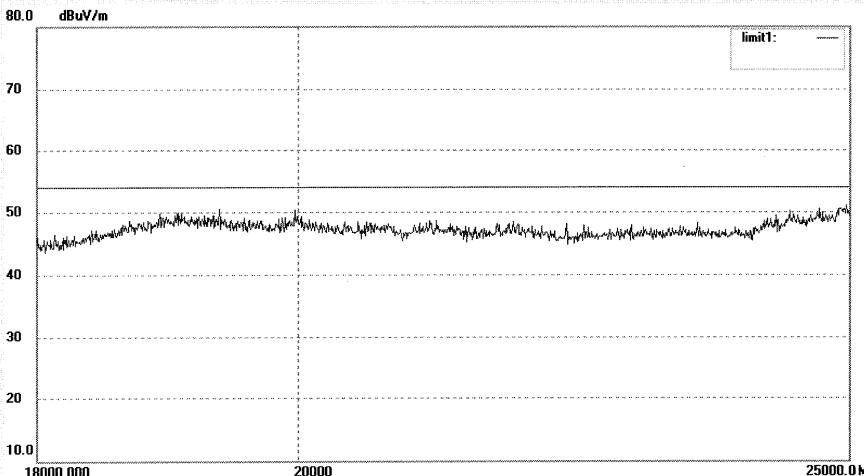
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

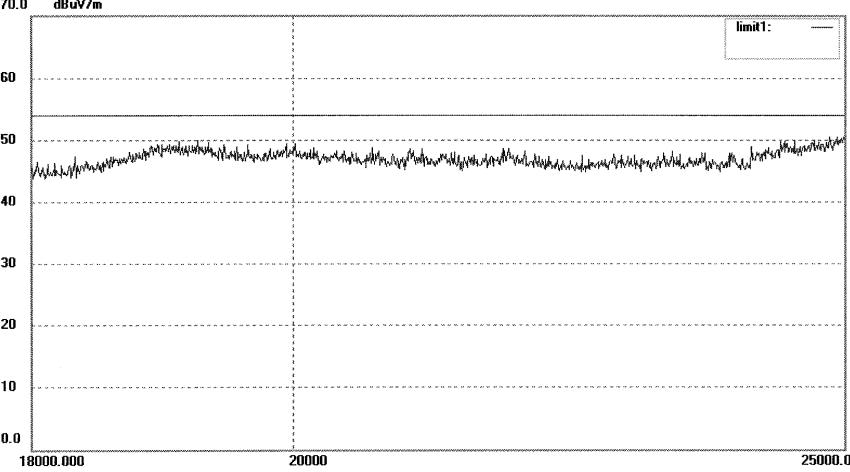
Job No.: pei #7984	Polarization: Vertical									
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2012/04/08									
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 11:23:39									
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI									
Mode: TX 2406MHz	Distance: 3m									
Model: RF-WHP212										
Manufacturer: Shenzhen Horn Audio Co., Ltd.										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #8660	Polarization: Horizontal									
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/05/20/									
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 1/54/37									
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI									
Mode: TX 2444MHz	Distance: 3m									
Model: RF-WHP212										
Manufacturer: Shenzhen Horn Audio Co., Ltd.										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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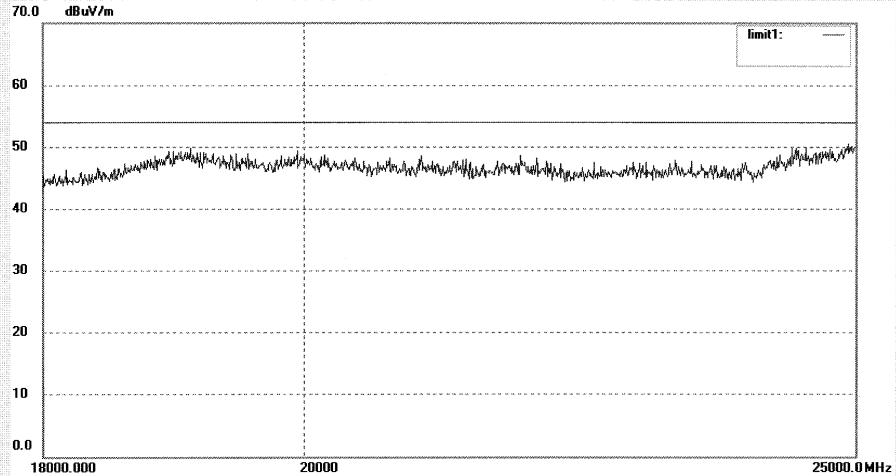
**ACCURATE TECHNOLOGY CO., LTD.**

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: pei #8659	Polarization: Vertical
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/05/20/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 1/46/24
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI
Mode: TX 2444MHz	Distance: 3m
Model: RF-WHP212	
Manufacturer: Shenzhen Horn Audio Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7987	Polarization: Horizontal									
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2012/04/08									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 11:45:58									
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI									
Mode: TX 2472MHz	Distance: 3m									
Model: RF-WHP212										
Manufacturer: Shenzhen Horn Audio Co., Ltd.										
Note:										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #7988	Polarization: Vertical									
Standard: FCC Part 15 Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2012/04/08									
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 11:59:00									
EUT: 2.4GHz Digital Wireless Stereo Headphones	Engineer Signature: PEI									
Mode: TX 2472MHz	Distance: 3m									
Model: RF-WHP212										
Manufacturer: Shenzhen Horn Audio Co., Ltd.										
Note:										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark