

Prüfbericht - Nr.: 17017067 002
Test Report No.:
Seite 1 von 36
Page 1 of 36
Auftraggeber: Beautiful Enterprise Co., Ltd

Client:

26th Floor, Beautiful Group Tower, 77 Connaught Road Central, Hong Kong

Gegenstand der Prüfung: Rocketboost Wireless Stereo Headphones

Test item:
Bezeichnung: RF-RBWHP01a

Identification:
Serien-Nr.:
n.a.
Serial No.:
Wareneingangs-Nr.: 163065935

Receipt No.:
Eingangsdatum: 2010-07-15

Date of receipt:
Prüfort: TÜV Rheinland (Guangdong) Ltd.

Testing location: EMC Laboratory

 Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou,
 P.R. China

FCC Registration No.:833845

Test site Industry Canada No.: 2932C-1

Prüfgrundlage: FCC CFR47 Part 15: Subpart C Section 15.247

Test specification: FCC CFR47 Part 15: Subpart C Section 15.209

FCC CFR47 Part 15: Subpart C Section 15.207

RSS-210 Issue 7 June 2007

RSS-Gen Issue 2 June 2007

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:



2010-08-30

Sam Lin/ Project Manager

kontrolliert/ reviewed by:



2010-08-30

Shawn Peng/ Technical Certifier

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

The EUT is wireless audio system which contains Docking station and Headphones. This report is approval for Headphones.

Abkürzungen:

P(ass)	=	entspricht Prüfgrundlage
Fail)	=	entspricht nicht Prüfgrundlage
N/A	=	nicht anwendbar
N/T	=	nicht getestet

Abbreviations:

P(ass)	=	passed
Fail)	=	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.

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 2 von 36
Page 2 of 36

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Passed

5.1.2 PEAK OUTPUT POWER
RESULT: Passed

5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH
RESULT: Passed

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH
RESULT: Passed

5.1.5 POWER SPECTRAL DENSITY
RESULT: Passed

5.1.6 SPURIOUS EMISSION
RESULT: Passed

5.1.7 CONDUCTED EMISSIONS
RESULT: Passed

6.1.1 RF EXPOSURE EVALUATION
RESULT: Not applicable

Prüfbericht - Nr.: **17017067 002**
Test Report No.Seite 3 von 36
Page 3 of 36

Contents

1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS.....	4
2.	TEST SITES.....	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
2.3	TRACEABILITY	6
2.4	CALIBRATION.....	6
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA	6
2.7	STATUS OF FACILITY USED FOR TESTING	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE	7
3.2	RATINGS AND SYSTEM DETAILS.....	7
3.3	INDEPENDENT OPERATION MODES.....	8
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	8
3.5	SUBMITTED DOCUMENTS.....	8
4.	TEST SET-UP AND OPERATION MODES.....	8
4.1	PRINCIPLE OF CONFIGURATION SELECTION	8
4.2	TEST OPERATION AND TEST SOFTWARE	8
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	9
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	9
4.5	TEST SETUP DIAGRAM	9
5.	TEST RESULTS	11
5.1.1	Antenna Requirement.....	11
5.1.2	Peak Output Power	12
5.1.3	6dB Bandwidth and 99% Bandwidth	16
5.1.4	Conducted Spurious Emissions measured in 100kHz Bandwidth	23
5.1.5	Power Spectral Density	26
5.1.6	Spurious Emission.....	30
5.1.7	Conducted emissions	31
6.	RADIO FREQUENCY (RF) EXPOSURE.....	32
6.1	RF EXPOSURE COMPLIANCE	32
6.1.1	RF Exposure Evaluation.....	32
7.	PHOTOGRAPHS OF THE TEST SET-UP	33
8.	LIST OF TABLES.....	36
9.	LIST OF PHOTOGRAPHS.....	36

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 4 von 36
Page 4 of 36

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

Notes:

The original sample's model name RF-RBWHP01 is changed to RF-RBWHP01a according to the client's requirement, while the change has no influence to the EMC performance that no additional test is needed.

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd.
EMC Laboratory

(FCC Registration No.: 833845 & Test Site Industry Canada No.: 2932C-1)

Guangzhou Auto Market,
Yuan Gang Section of Guangshan Road,
Guangzhou, P.R. China

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
Spurious Radiated Emissions				
EMI Test Receiver	Rohde & Schwarz	ESCI3	100216	2011-01-17
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2011-01-17
Trilog-Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	209	2011-08-21
Double-Ridged Waveguide Horn Antenna	Rohde & Schwarz	HF906	100385	2011-08-24
Pre-amplifier	MITEQ	AFS42-00101800-25-S-42	1101599	2011-07-31
Horn Antenna	EMCO	3160-09	21642	2011-06-26
Pre-amplifier	MITEQ	AFS33-18002650-30-8P-44	1108282	2011-01-17
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100111	2010-11-26
3m Anechoic Chamber	Albatross Project GmbH	N/A	N/A	2011-02-10
Radio Frequency Test Suite				
EMI Test Receiver	Rohde & Schwarz	ESCI	100178	2011-01-17
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2011-01-17
Conducted Emissions				
Receiver	Rohde & Schwarz	ESCS30	100316	2011-01-27
LISN	Rohde & Schwarz	ESH3-Z5	100114	2011-07-06

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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC 17025 are:

Table 2: Measurement Uncertainty

Items		Extended Uncertainty
RE (9kHz – 30MHz)	Field Strength (dBuV/m)	$U=\pm 4.46\text{dB}$, $k=2$, $\sigma=95\%$
RE (30-1000MHz)	Field strength (dBuV/m)	$U=\pm 4.94\text{dB}$, $k=2$, $\sigma=95\%$
RE (1-26GHz)	Field strength (dBuV/m)	$U=\pm 4.34\text{dB}$, $k=2$, $\sigma=95\%$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Guangdong) Ltd. test facility located at Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou, 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 Wireless Stereo Headphones with 2.4G wireless technology. It receives audio signal from cradle base station via 2.4G radio frequency.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Rating of EUT

Kind of Equipment:	Rocketboost Wireless Stereo Headphones
Type Designation:	RF-RBWHP01a
FCC ID	UZZRBWHP01RX
IC ID	7633A-RBWHP01RX
Rated Input Power	DC 3V (via AA Rechargeable NiMH battery)

Table 4: Technical Specification

Item	Description
Operating Frequency band	2412 – 2462 MHz
Channel Number	3
Channel Center Frequency	2412MHz, 2438MHz, 2462MHz
Modulation	OFDM, π/4DQPSK
Data Rate (Mbps)	20.7Mbps
Antenna	Integrated Antenna
Antenna Gain (dBi)	2.15

Table 5: Carrier Frequency

Frequency Band	Channel No.	Frequency
2412 – 2462 MHz	1	2412 MHz
	2	2438 MHz
	3	2462 MHz

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Receiving
- C. Charging
- D. 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

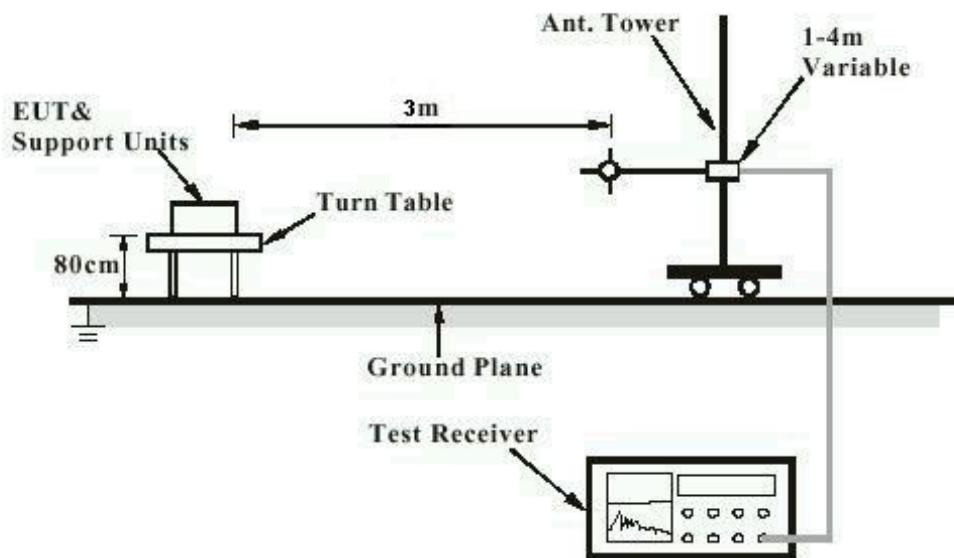
Null

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



Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 10 von 36
Page 10 of 36

Diagram of Measurement Equipment Configuration for Conduction Measurement

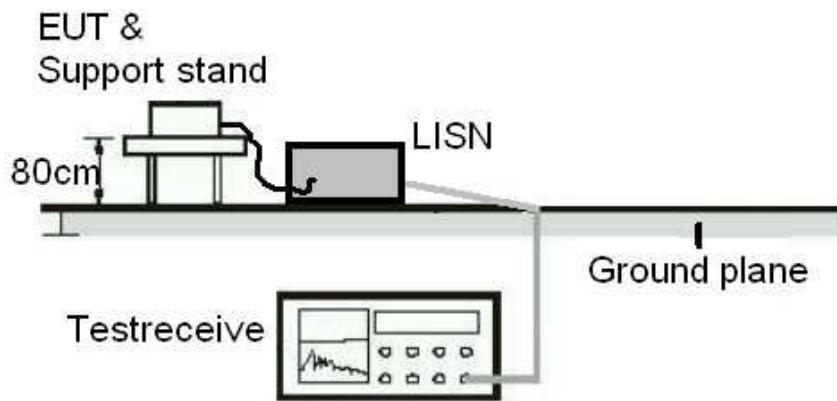
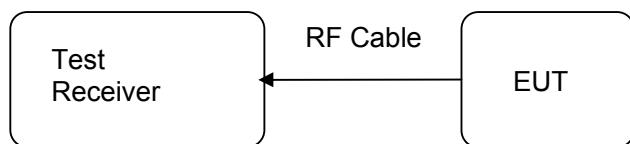


Diagram of Measurement Equipment Configuration for Transmitter Measurement



Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 11 von 36
Page 11 of 36

5. Test Results

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2010-08-25
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 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2.15dBi, 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.: 17017067 002
Test Report No.

Seite 12 von 36
Page 12 of 36

5.1.2 Peak Output Power

RESULT:

Passed

Test date	:	2010-08-28
Test standard	:	FCC Part 15.247(b)(1) RSS-210 A8.4 (4)
Basic standard	:	ANSI C63.4: 2003
Limit	:	1 Watt
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	24°C
Relative humidity	:	53%
Atmospheric pressure	:	101 kPa

Table 6: Test result of Peak Output Power, Antenna 0

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	
Low Channel	2412	11.06	0.012764	1
Middle Channel	2438	10.74	0.011858	1
High Channel	2462	10.41	0.010990	1

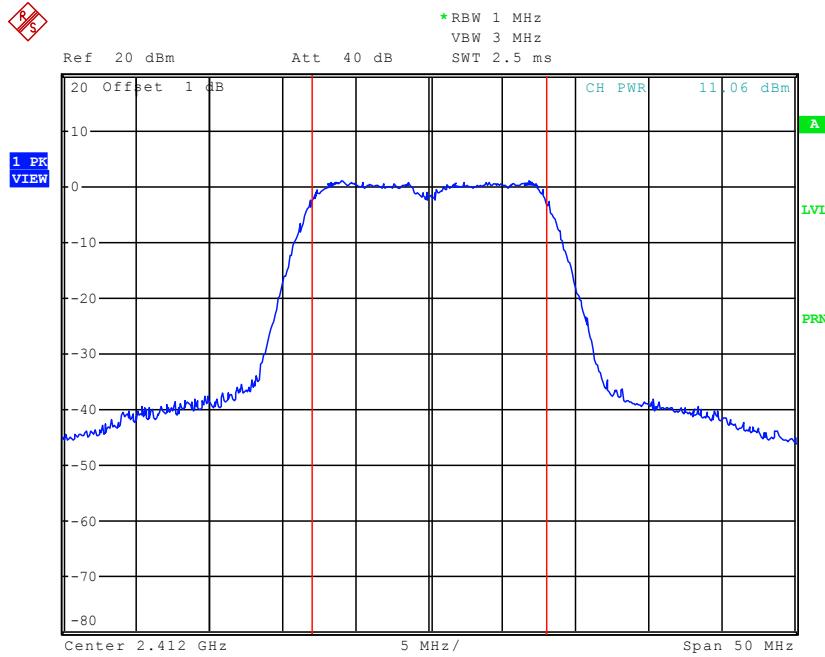
Table 7: Test result of Peak Output Power, Antenna 1

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	
Low Channel	2412	10.81	0.012050	1
Middle Channel	2438	10.44	0.011066	1
High Channel	2462	10.10	0.010233	1

Prüfbericht - Nr.: 17017067 002
Test Report No.

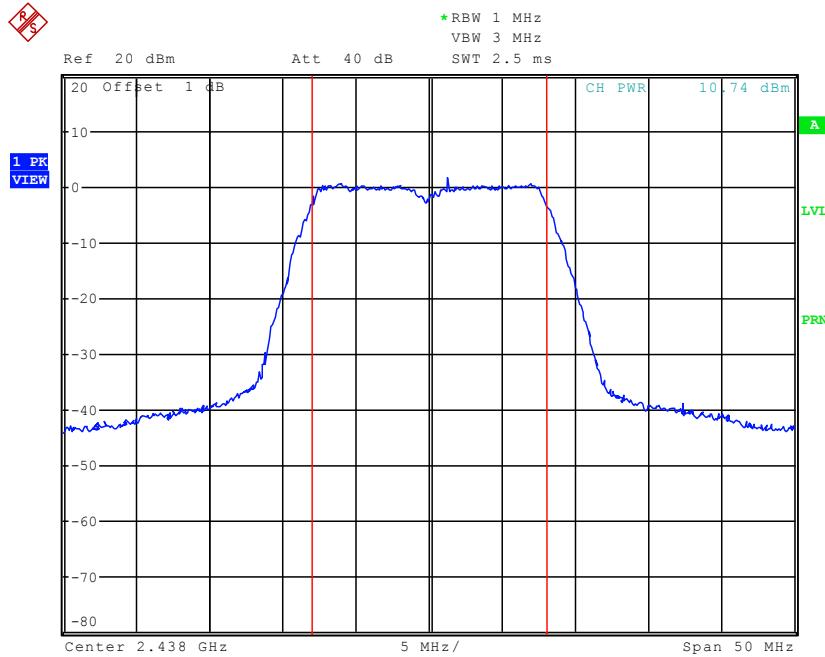
Seite 13 von 36
Page 13 of 36

Test Graph of Peak Output Power
Antenna 0, Low Channel



Date: 28.AUG.2010 13:47:48

Antenna 0, Middle Channel

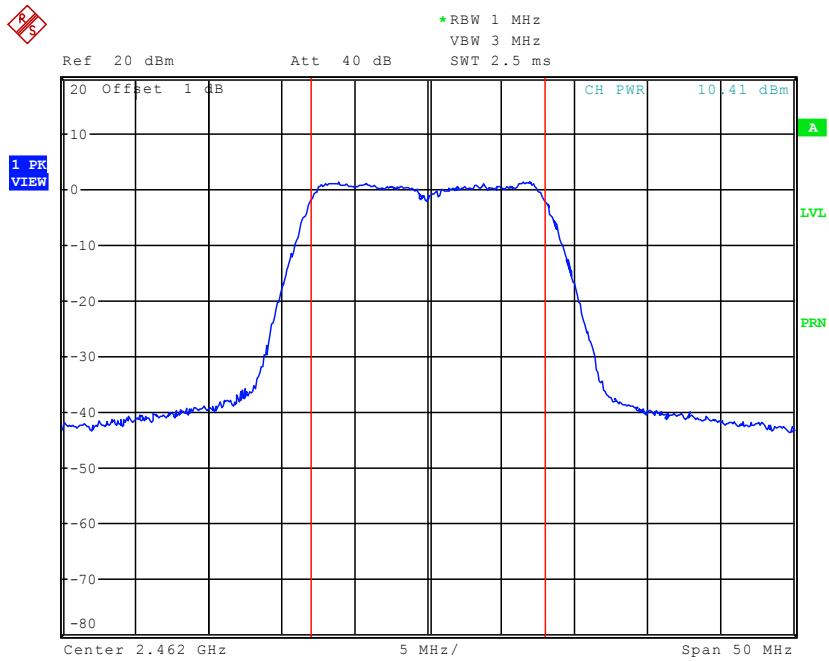


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Prüfbericht - Nr.: 17017067 002
Test Report No.

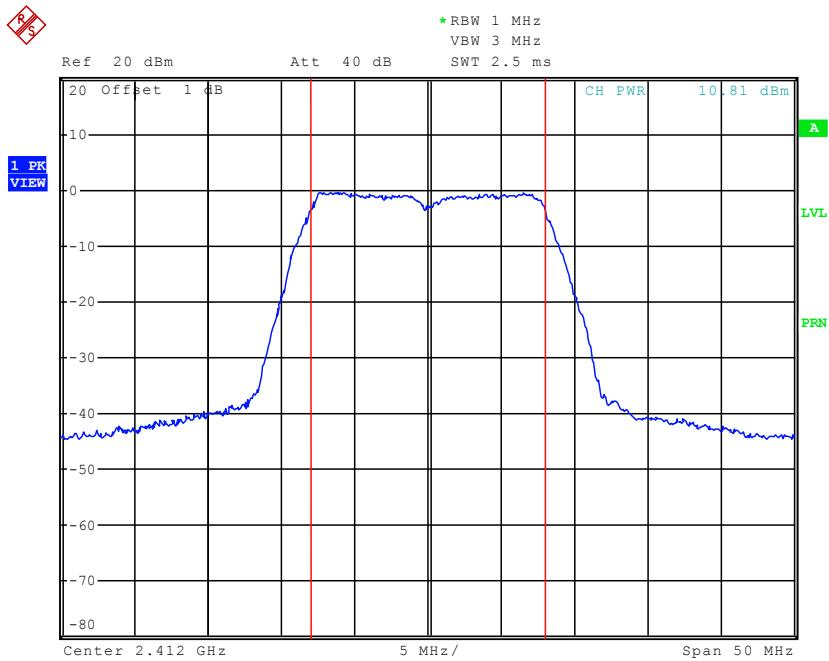
Seite 14 von 36
Page 14 of 36

Antenna 0, High Channel



Date: 28.AUG.2010 14:00:52

Antenna 1, Low Channel

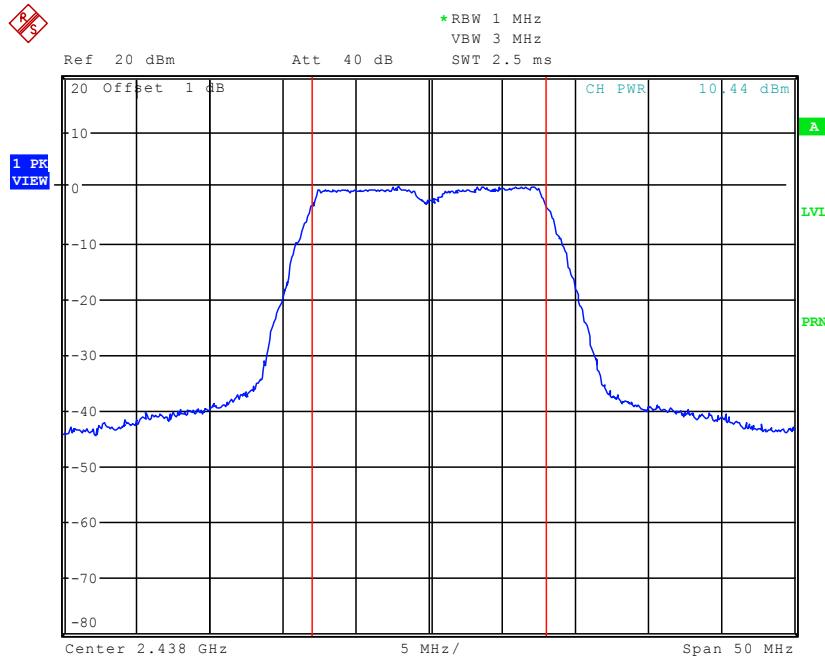


Date: 28.AUG.2010 14:03:28

Prüfbericht - Nr.: 17017067 002
Test Report No.

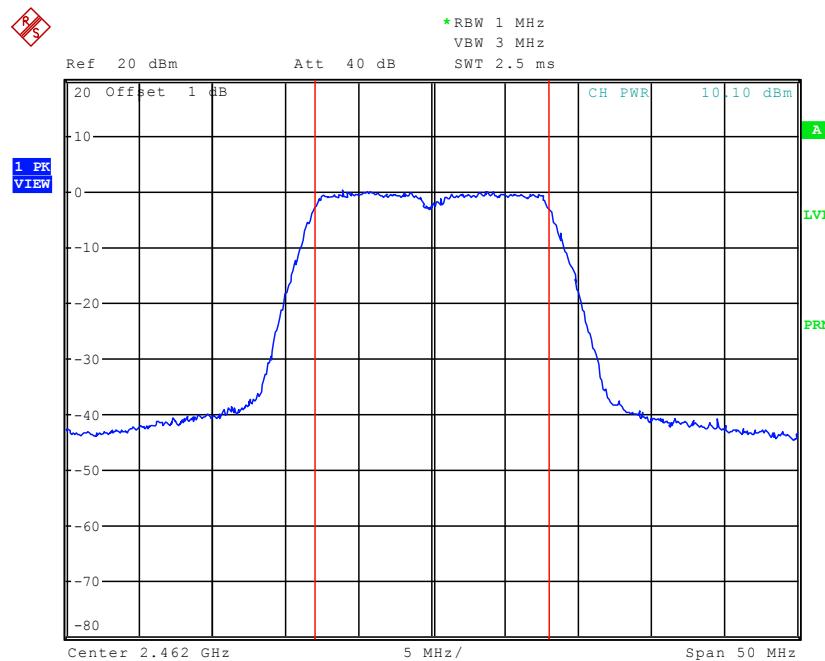
Seite 15 von 36
Page 15 of 36

Antenna 1, Middle Channel



Date: 28.AUG.2010 14:10:13

Antenna 1, High Channel



Date: 28.AUG.2010 14:11:46

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 16 von 36
Page 16 of 36

5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

Passed

Date of testing	:	2010-08-24
Test standard	:	FCC Part 15.247(a)(1) RSS-210 A8.1(a)
Basic standard	:	ANSI C63.4: 2003
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	24°C
Relative humidity	:	53%
Atmospheric pressure	:	101 kPa

Table 8: Test result of 6dB Bandwidth

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Limit
		Ant 0	Ant 1	
Low Channel	2412	16.40	16.36	500kHz
Mid Channel	2438	16.40	16.36	500kHz
High Channel	2462	16.40	16.36	500kHz

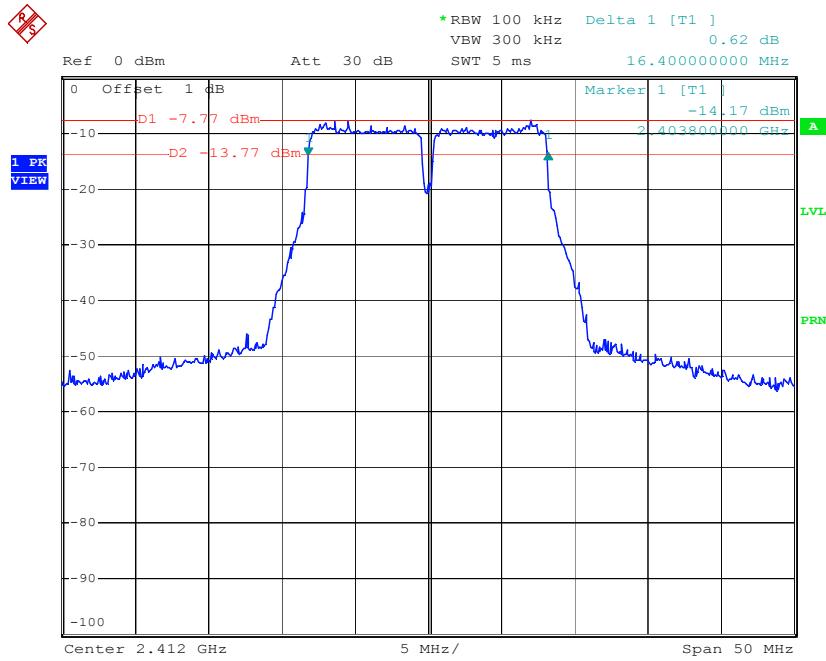
Table 9: Test result of 99% Bandwidth

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)		Limit
		Ant 0	Ant 1	
Low Channel	2412	16.36	16.36	500kHz
Mid Channel	2438	16.36	16.36	500kHz
High Channel	2462	16.36	16.36	500kHz

Prüfbericht - Nr.: 17017067 002
Test Report No.

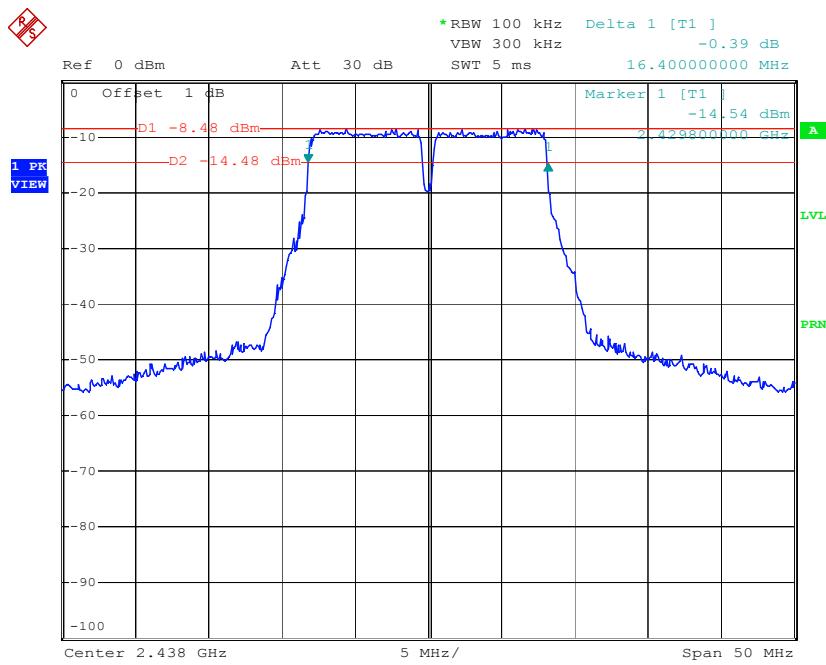
Seite 17 von 36
Page 17 of 36

Test Graph of 6dB Bandwidth
Antenna 0, Low Channel



Date: 24.AUG.2010 15:05:14

Antenna 0, Middle Channel



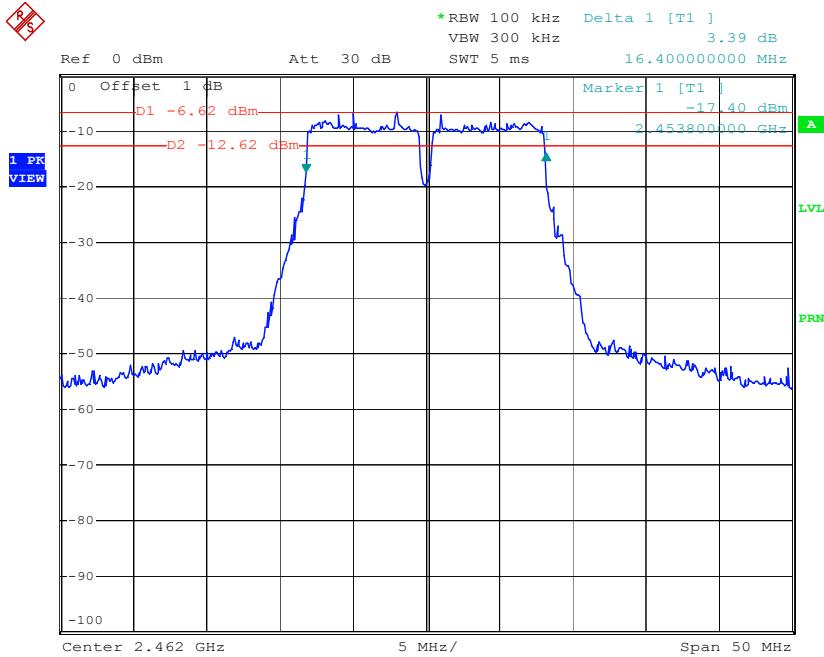
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Prüfbericht - Nr.: 17017067 002

Test Report No.

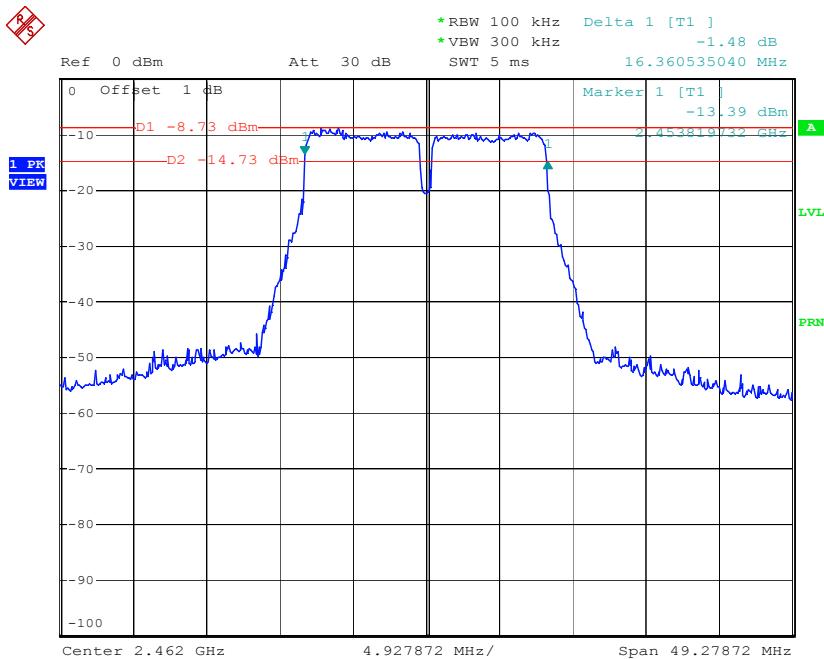
Seite 18 von 36
Page 18 of 36

Antenna 0, High Channel



Date: 24.AUG.2010 15:10:26

Antenna 1, Low Channel



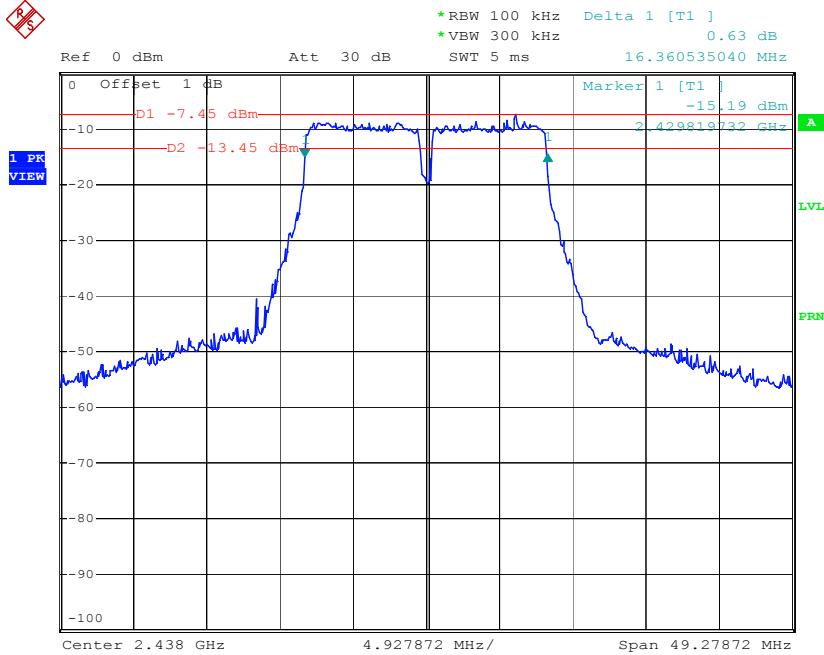
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Prüfbericht - Nr.: 17017067 002

Test Report No.

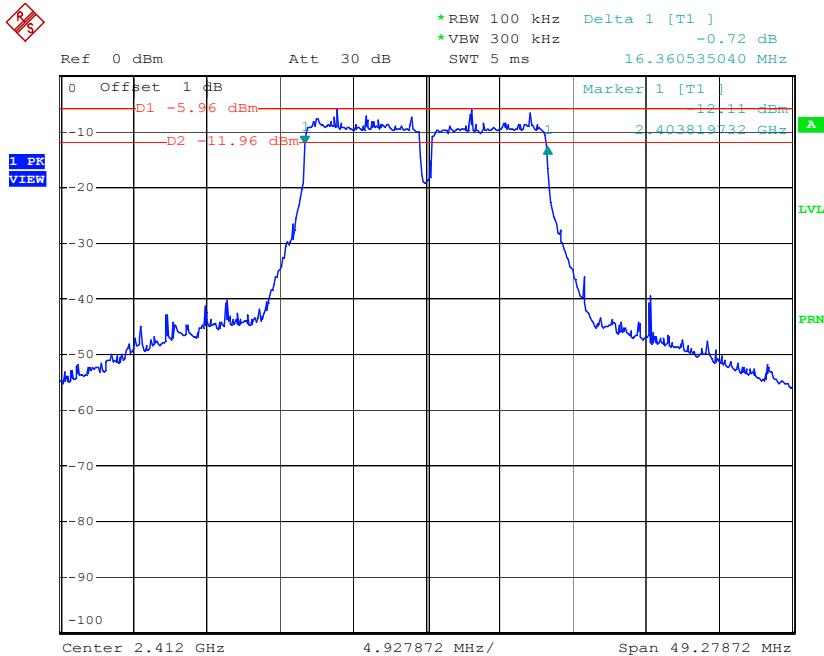
Seite 19 von 36
Page 19 of 36

Antenna 1, Middle Channel



Date: 24.AUG.2010 15:50:43

Antenna 1, High Channel

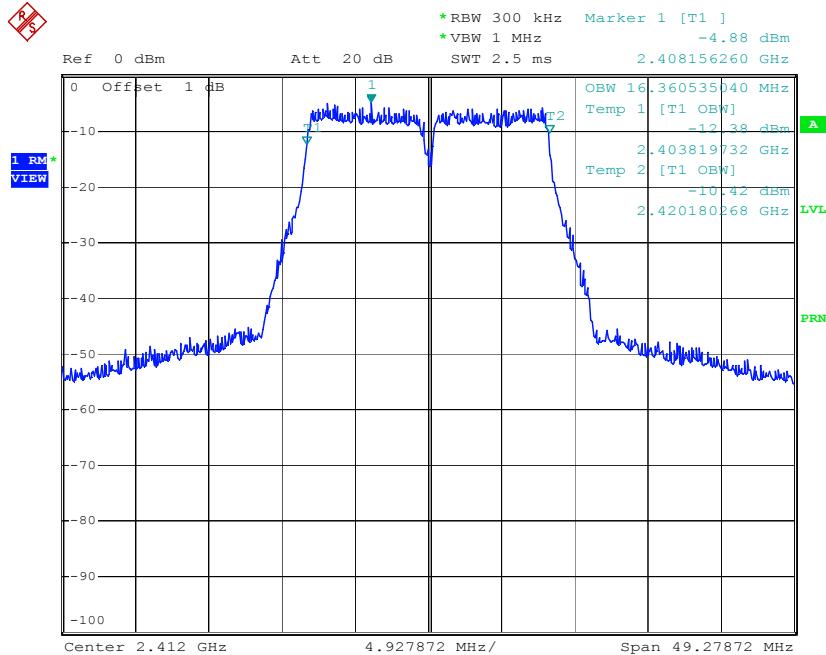


Date: 24.AUG.2010 15:52:39

Prüfbericht - Nr.: 17017067 002
Test Report No.

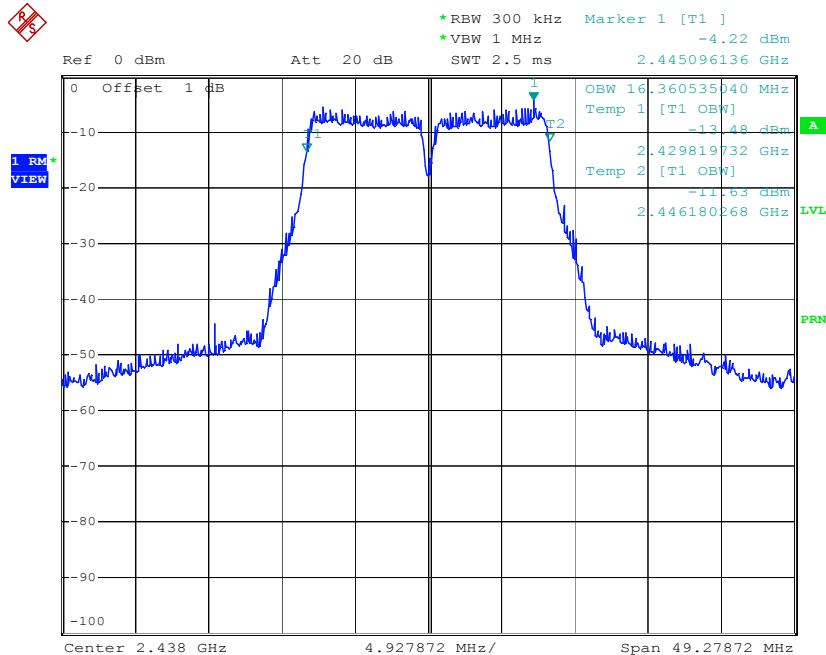
Seite 20 von 36
Page 20 of 36

Test Graph of 99% Bandwidth
Antenna 0, Low Channel



Date: 24.AUG.2010 15:15:36

Antenna 0, Middle Channel

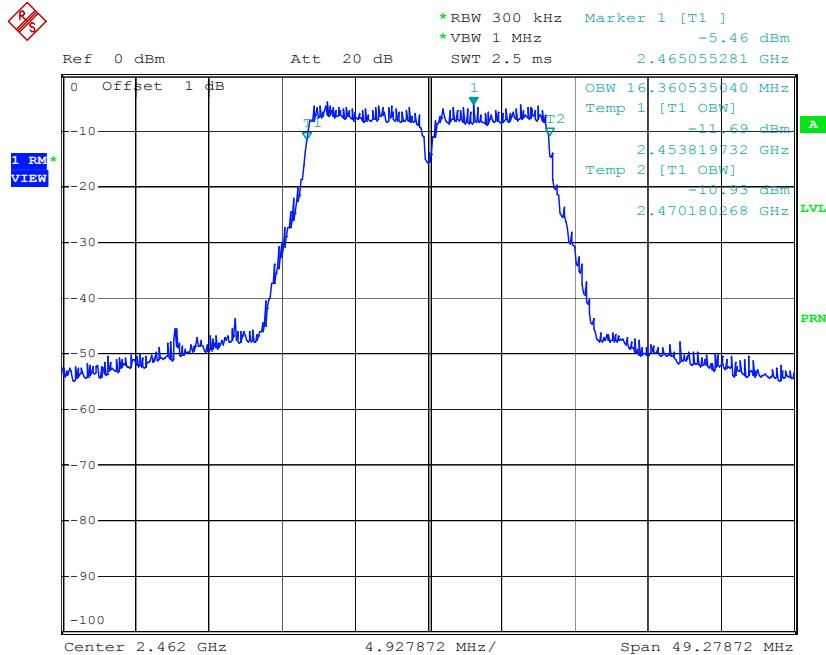


Date: 24.AUG.2010 15:14:43

Prüfbericht - Nr.: 17017067 002
Test Report No.

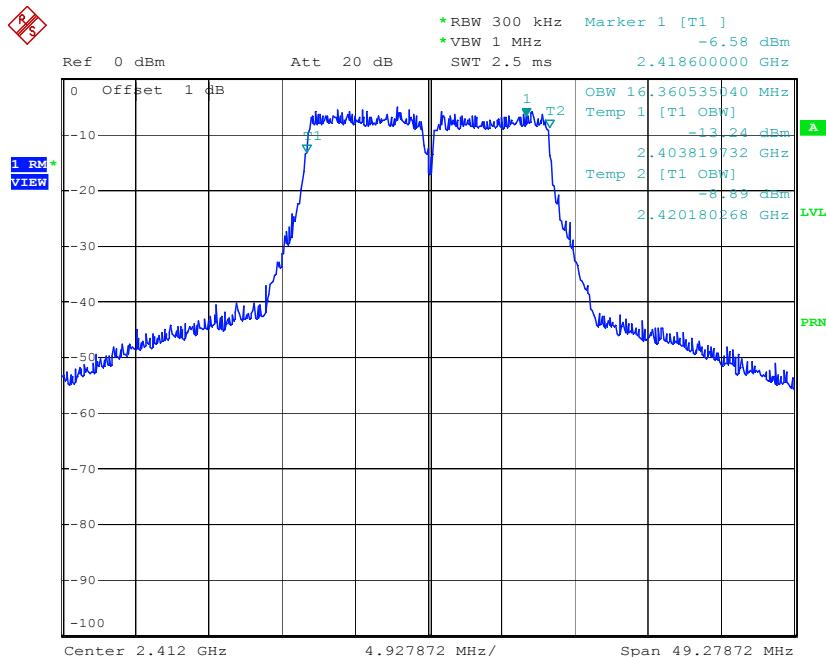
Seite 21 von 36
Page 21 of 36

Antenna 0, High Channel



Date: 24.AUG.2010 15:12:41

Antenna 1, Low Channel



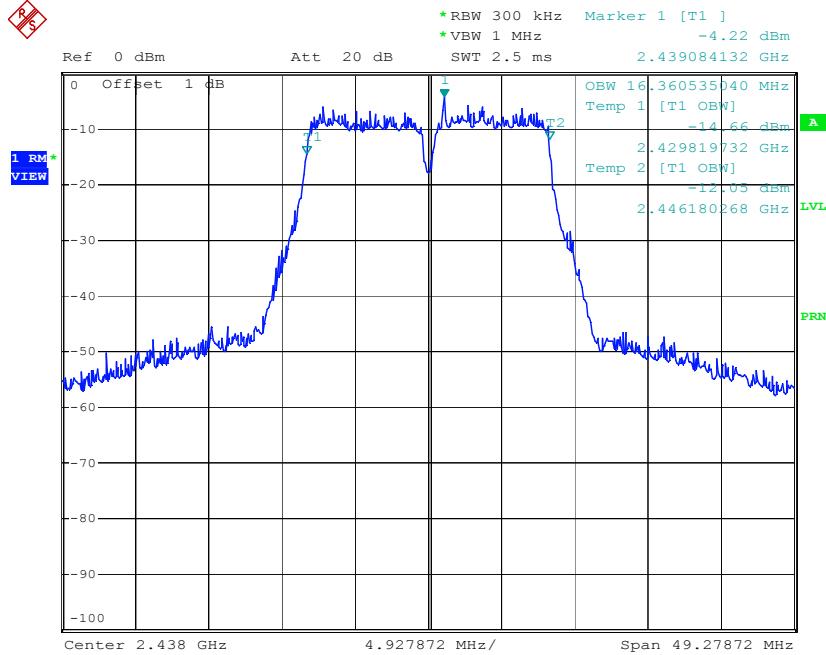
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Prüfbericht - Nr.: 17017067 002

Test Report No.

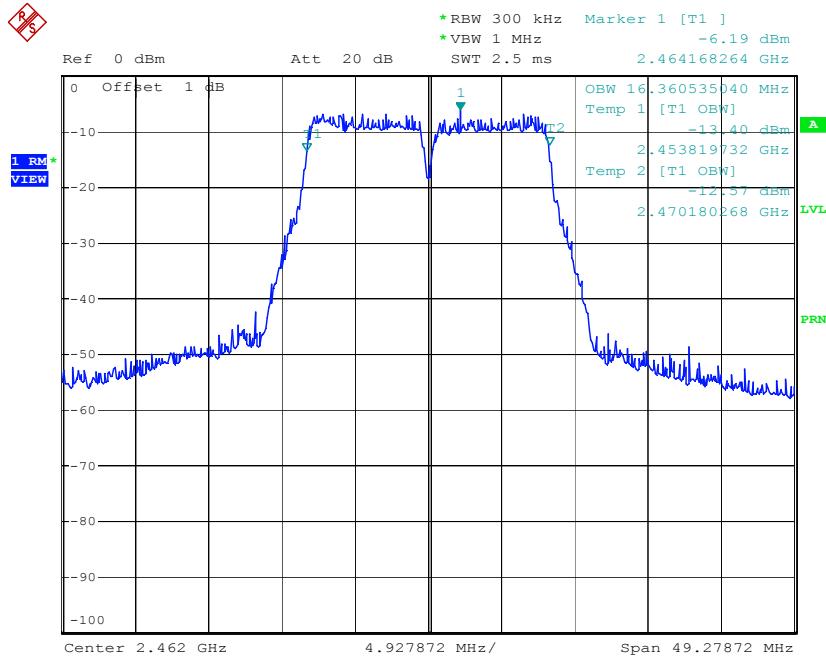
Seite 22 von 36
Page 22 of 36

Antenna 1, Middle Channel



Date: 24.AUG.2010 15:46:24

Antenna 1, High Channel



Date: 24.AUG.2010 15:47:14

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 23 von 36
Page 23 of 36

5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth

RESULT:

Passed

Date of testing	:	2010-08-24
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); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	24°C
Relative humidity	:	53%
Atmospheric pressure	:	101 kPa

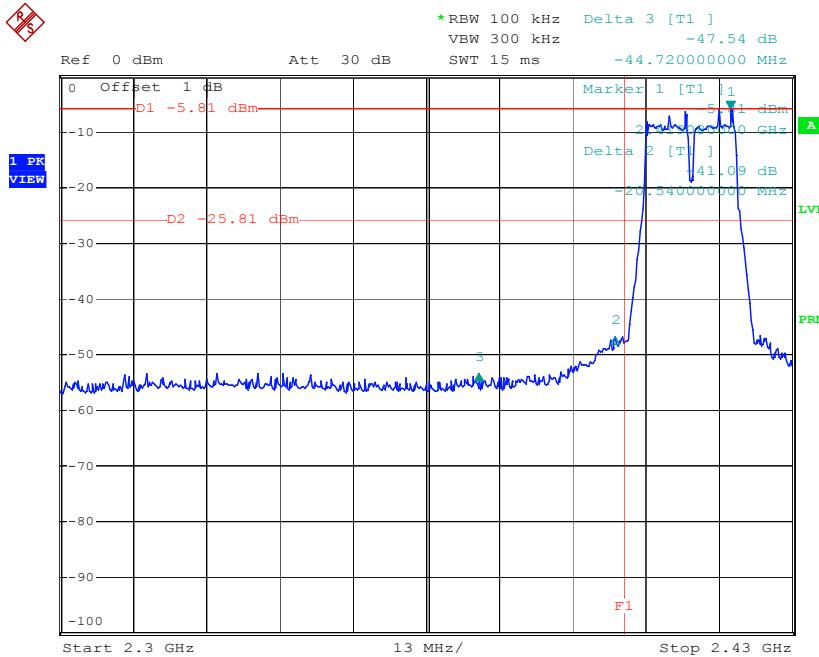
The range from 9kHz to 26GHz was investigated, and except for the range shown in the following diagrams no emissions high than 40dB below the fundamental measured in 100kHz Bandwidth were found. Details refer to following test Graph.

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 24 von 36
Page 24 of 36

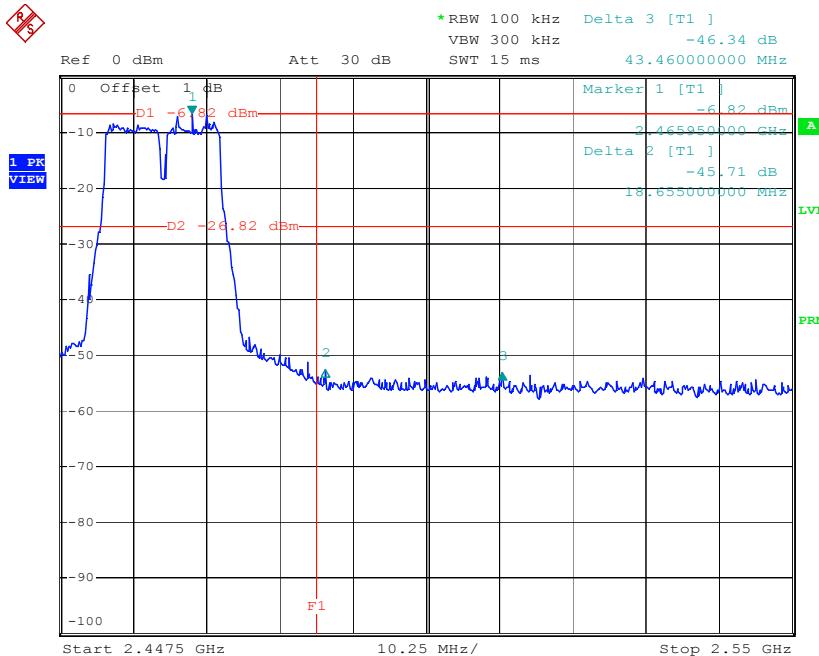
Test Graph of Conducted spurious emissions measured in 100kHz Bandwidth

Antenna 0, Low Channel



Date: 24.AUG.2010 15:22:49

Antenna 0, High Channel



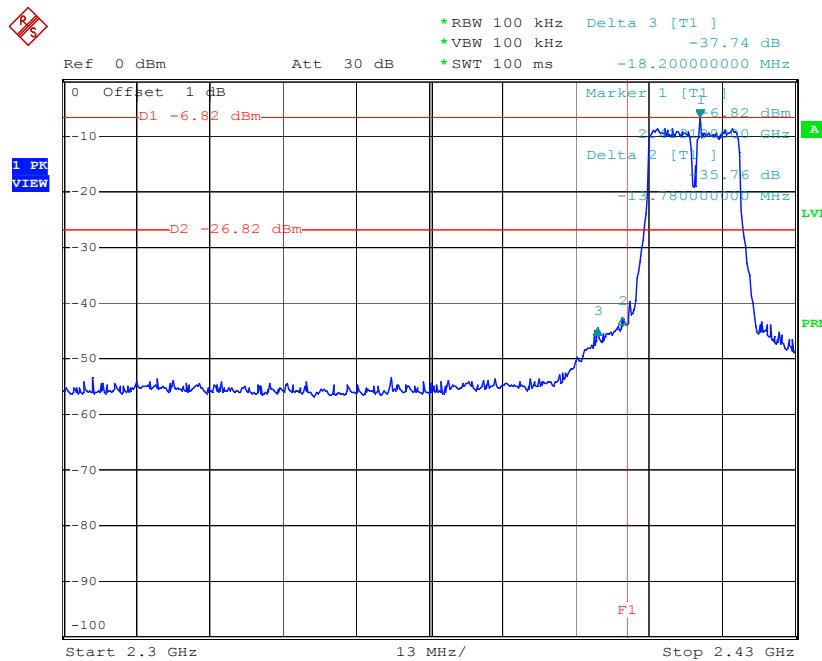
Date: 24.AUG.2010 15:20:59

Prüfbericht - Nr.: 17017067 002

Test Report No.

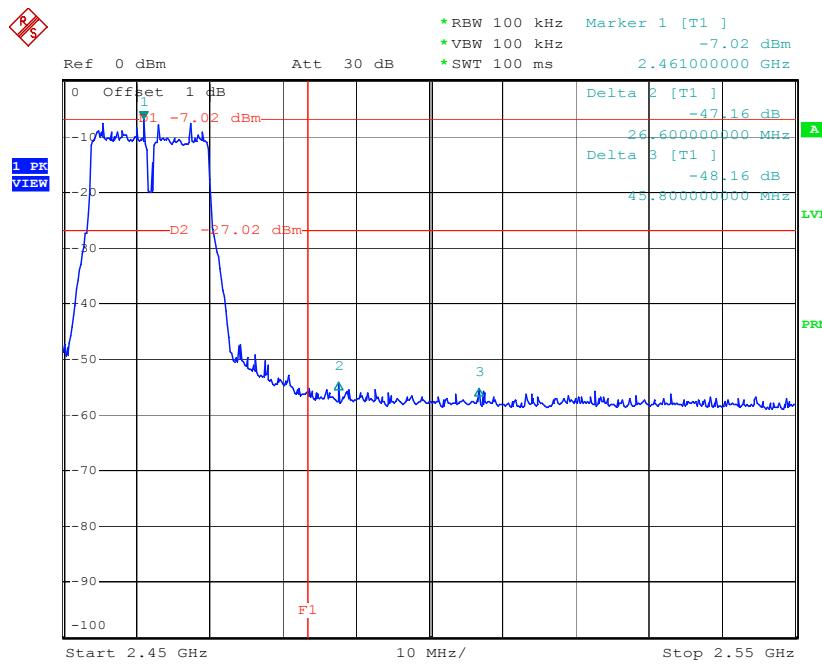
Seite 25 von 36
Page 25 of 36

Antenna 1, Low Channel



Date: 24.AUG.2010 16:01:16

Antenna 1, High Channel



Date: 24.AUG.2010 15:58:49

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 26 von 36
Page 26 of 36

5.1.5 Power Spectral Density

RESULT:

Passed

Date of testing : 2010-08-24
 Test standard : FCC part 15.247(e)
 RSS-210 A8.2(b)
 Basic standard : ANSI C63.4: 2003
 Limits : 8.0 dBm (in any 3kHz band)
 Kind of test site : Shield room

Test Setup

Test Channel : Low/ Middle/ High
 Operation mode : A
 Ambient temperature : 24°C
 Relative humidity : 53%
 Atmospheric pressure : 101 kPa

Table 10: Test result of Power Spectral Density

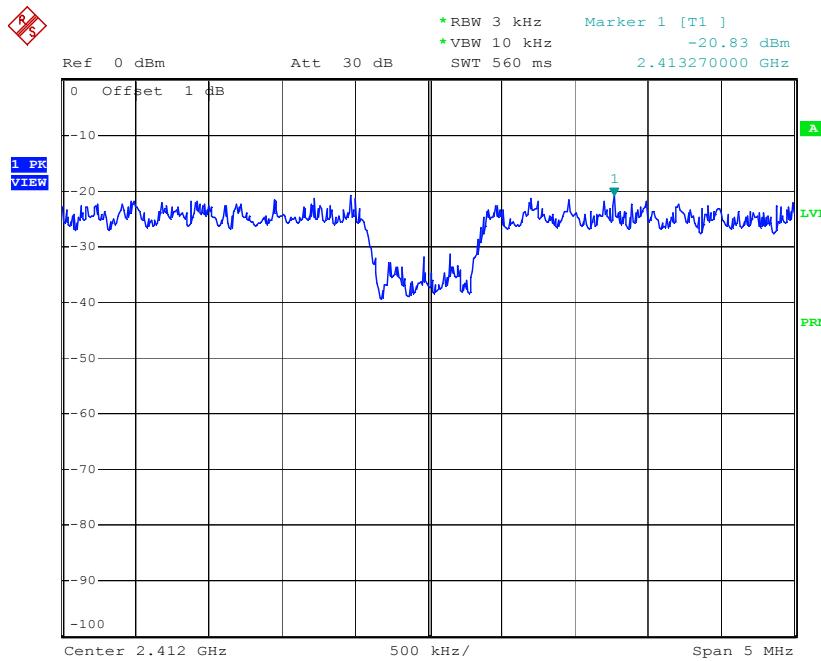
Maximum power spectral density			
Low Channel (dBm/1MHz)	Middle Channel (dBm/1MHz)	High Channel (dBm/1MHz)	Limit (dBm/3kHz)
Antenna 0			
-20.83	-19.73	-21.24	8
Antenna 1			
-20.23	-21.42	-22.02	8

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 27 von 36
Page 27 of 36

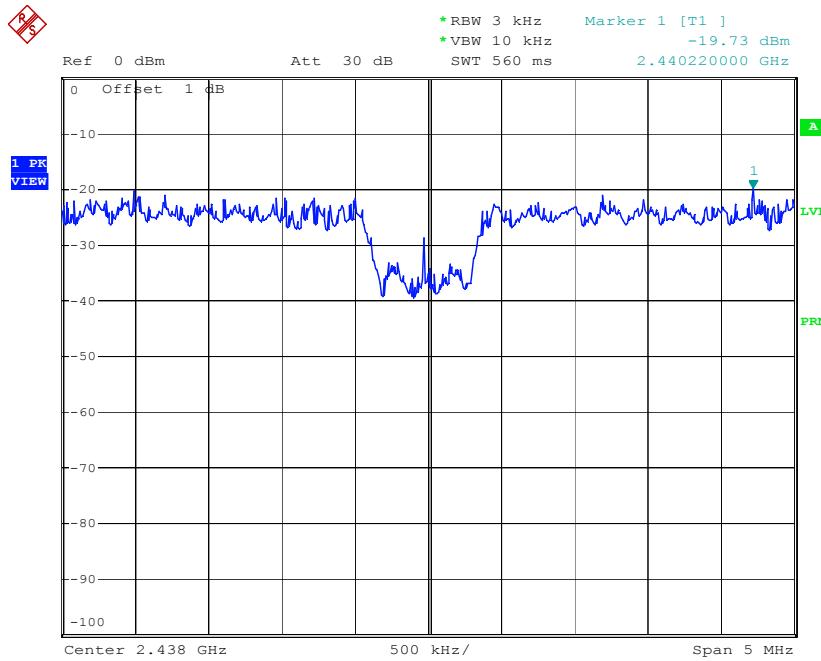
Test Graph of Power Spectral Density

Antenna 0, Low Channel



Date: 24.AUG.2010 15:16:53

Antenna 0, Middle Channel

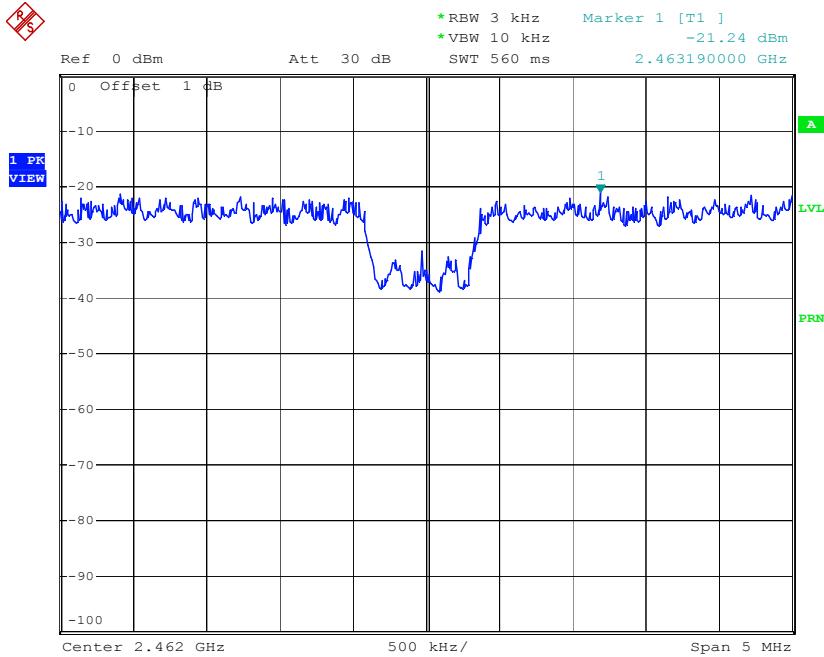


Date: 24.AUG.2010 15:18:10

Prüfbericht - Nr.: 17017067 002
Test Report No.

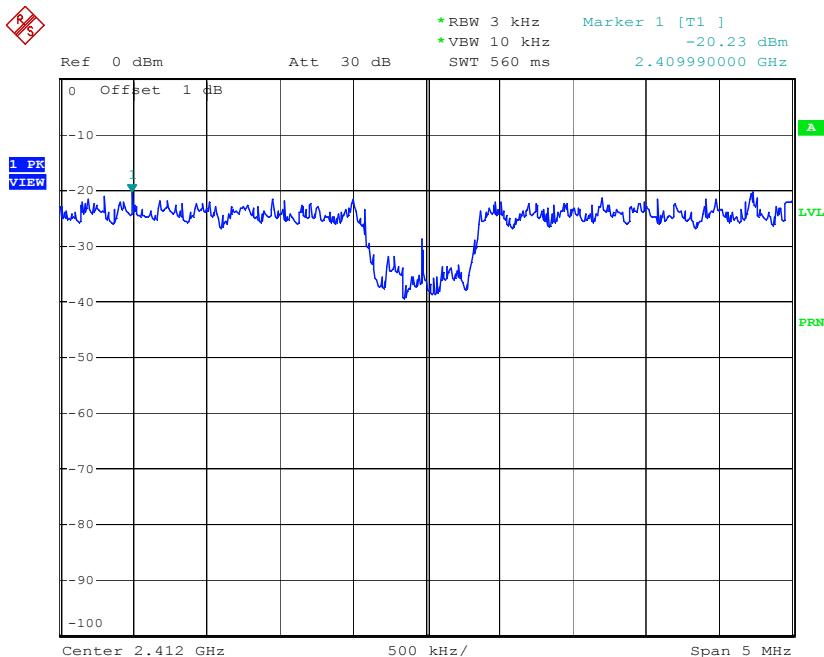
Seite 28 von 36
Page 28 of 36

Antenna 0, High Channel



Date: 24.AUG.2010 15:19:08

Antenna 1, Low Channel

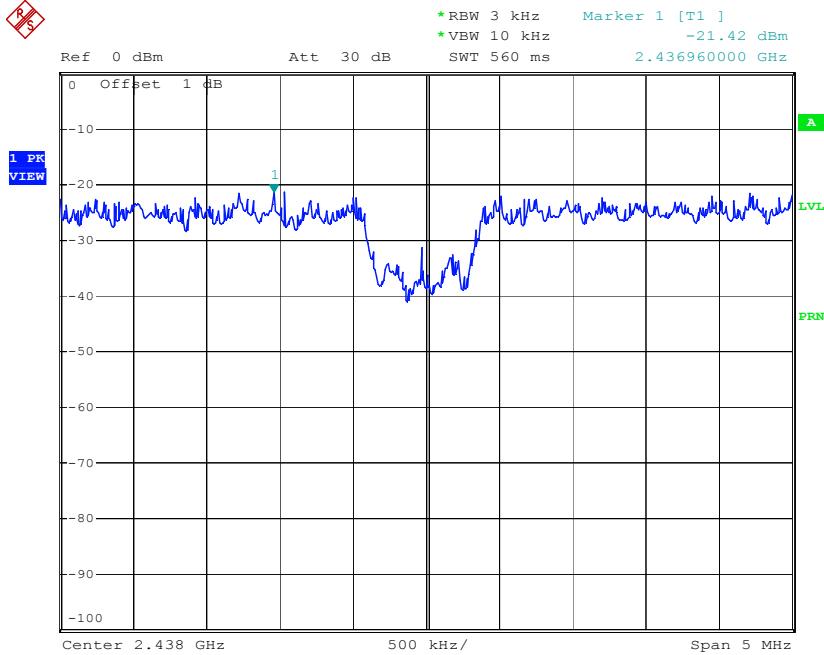


Date: 24.AUG.2010 15:55:18

Prüfbericht - Nr.: 17017067 002
Test Report No.

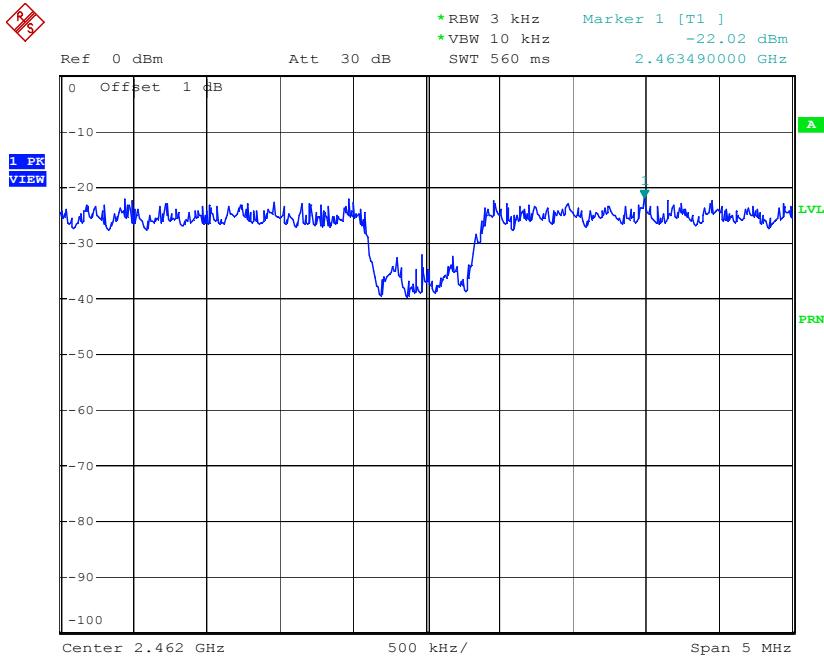
Seite 29 von 36
Page 29 of 36

Antenna 1, Middle Channel



Date: 24.AUG.2010 15:56:10

Antenna 1, High Channel



Date: 24.AUG.2010 15:57:05

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 30 von 36
Page 30 of 36

5.1.6 Spurious Emission

RESULT:

Passed

Date of testing	:	2010-07-29 to 2010-08-26
Test standard	:	FCC part 15.247(d) RSS-210 Clause 2.2
Basic standard	:	ANSI C63.4: 2003
Limits	:	Refer to 15.209(a) Refer to RSS-210 Table 2 & 3
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A & B
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	100 kPa

Refer to appendix 1 for details.

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 31 von 36
Page 31 of 36

5.1.7 Conducted emissions

RESULT:

Passed

Date of testing	:	2010-07-29 to 2010-07-30
Test standard	:	FCC Part 15.207(a) RSS-Gen Clause 7.2.2
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) Table 2 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	DC 3V (via Docking station)
Operation Mode	:	C
Earthing	:	Not Connected
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	100 kPa

Refer to appendix 1 for details.

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 32 von 36
Page 32 of 36

6. Radio Frequency (RF) Exposure

6.1 RF Exposure Compliance

6.1.1 RF Exposure Evaluation

RESULT:**Not applicable**

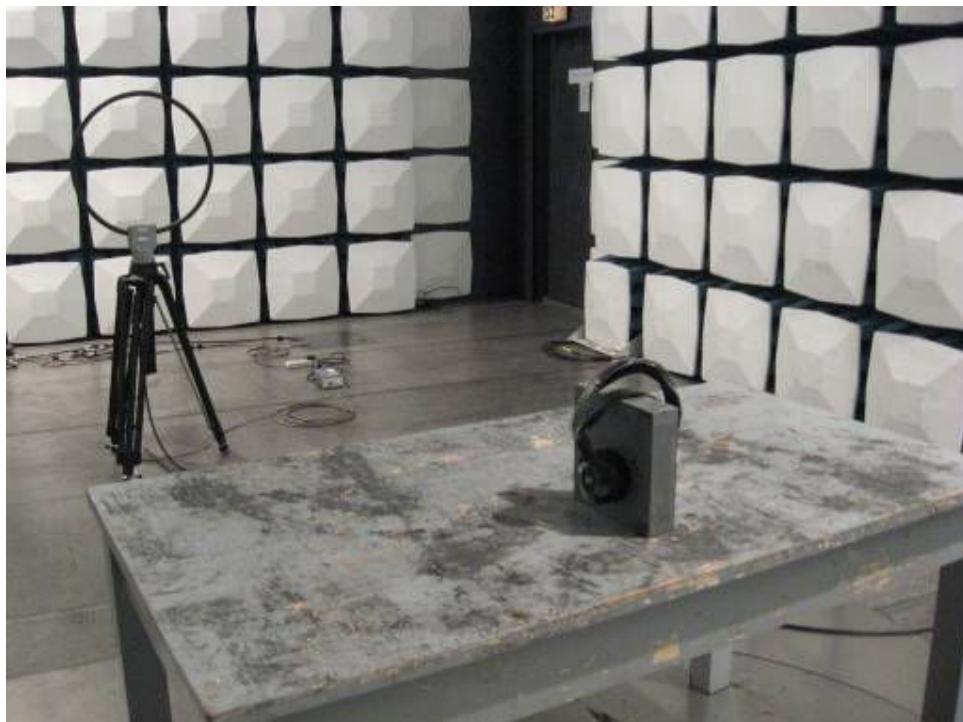
The measured peak power of the transmitter is only 12.76mW (11.06dBm). According to RSS-102 sections 2.5, all transmitters are exempt from routine SAR and RF exposure evaluations provided that output power complies with the power levels of RSS-102 sections 2.5.2, 'above 2.2GHz and up to 3GHz inclusively, and with output power that is less than or equal to 20mW for general public use and 100mW for controlled use', therefore the apparatus is exempt from routine evaluation.

Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 33 von 36
Page 33 of 36

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Receiver Spurious Emissions 9kHz – 30MHz



Photograph 2: Set-up for Receiver Spurious Emissions 30MHz – 1GHz



Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 34 von 36
Page 34 of 36

Photograph 3: Set-up for Receiver Spurious Emissions 1GHz – 18GHz



Photograph 4: Set-up for Receiver Spurious Emissions 18GHz – 26.5GHz



Prüfbericht - Nr.: 17017067 002
Test Report No.

Seite 35 von 36
Page 35 of 36

Photograph 5: Set-up for Conducted Emissions



8. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Measurement Uncertainty.....	6
Table 3: Rating of EUT	7
Table 4: Technical Specification	7
Table 5: Carrier Frequency	7
Table 6: Test result of Peak Output Power, Antenna 0	12
Table 7: Test result of Peak Output Power, Antenna 1	12
Table 8: Test result of 6dB Bandwidth	16
Table 9: Test result of 99% Bandwidth	16
Table 10: Test result of Power Spectral Density	26

9. List of Photographs

Photograph 1: Set-up for Receiver Spurious Emissions 9kHz – 30MHz.....	33
Photograph 2: Set-up for Receiver Spurious Emissions 30MHz – 1GHz.....	33
Photograph 3: Set-up for Receiver Spurious Emissions 1GHz – 18GHz.....	34
Photograph 4: Set-up for Receiver Spurious Emissions 18GHz – 26.5GHz.....	34
Photograph 5: Set-up for Conducted Emissions	35

Test Graph of Spurious emissions, mode A

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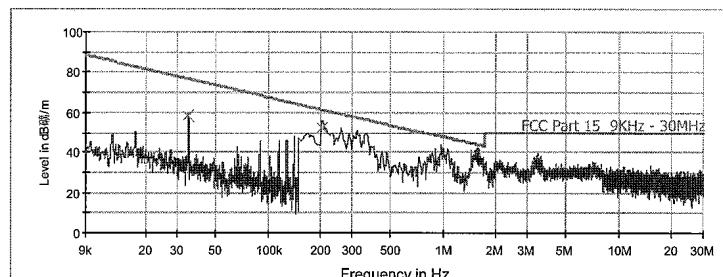
EMC Test Record (EMISSION)

Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. : DC 3V
Receipt No.: 163065935 400
Report No. 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFFH2-Z2

Pre TUV 9K to 30M HFFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dB μ V/m)	Average (dB μ V/m)	Corr. (dB)	Polarization
1.570000	36.7	---	20.2	H
0.034840	---	56.3	20.2	H
0.202000	---	52.2	20.8	H

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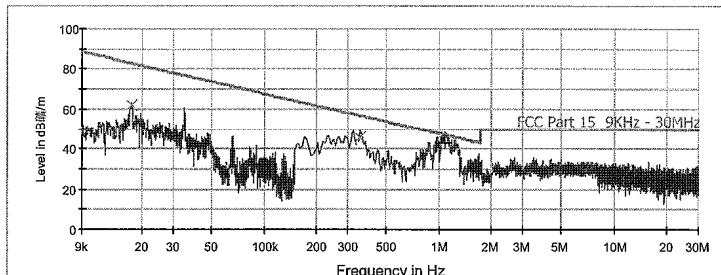
EMC Test Record (EMISSION)

Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. : DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dB μ V/m)	Average (dB μ V/m)	Corr. (dB)	Polarization
1.082000	42.9	---	20.3	V
0.017240	---	61.8	20.6	V
0.354000	---	45.6	20.8	V

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EMC Test Record (EMISSION)

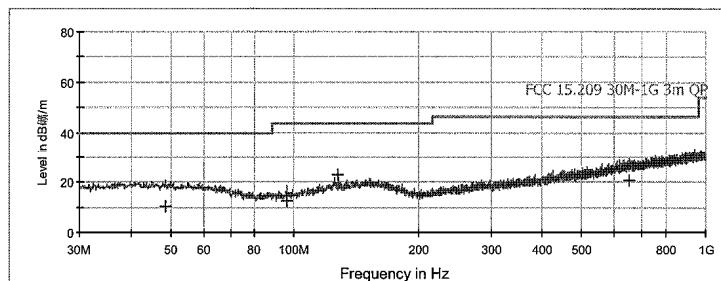
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 30MHz – 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
48.550000	10.1	14.3	29.9	40.0	V
96.000000	12.6	11.0	30.9	43.5	V
128.000000	22.7	14.1	20.8	43.5	V
653.700000	20.4	22.6	25.6	46.0	V

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EMC Test Record (EMISSION)

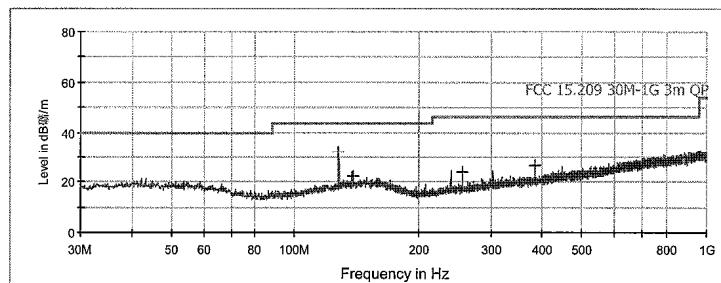
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 30MHz – 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
128.000000	32.3	14.1	11.2	43.5	H
138.300000	22.4	14.8	21.1	43.5	H
256.000000	23.8	13.7	22.2	46.0	H
384.000000	26.4	17.0	19.6	46.0	H

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EMC Test Record (EMISSION)

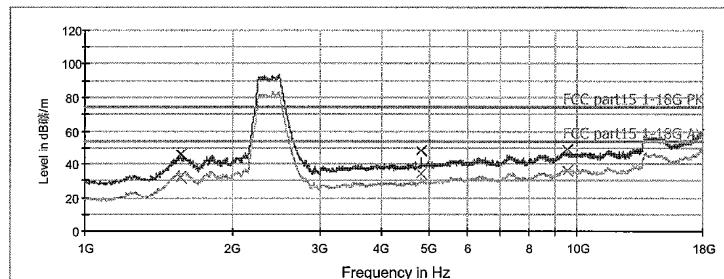
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. : DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 1GHz – 18GHz
Receiver: TUV FSP 30
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1561.000000	45.5	-14.1	28.5	74.0	V
4824.000000	48.0	-5.5	26.0	74.0	V
9532.000000	48.6	5.2	25.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1561.000000	31.5	-14.1	22.6	54.0	V
4824.000000	34.4	-5.5	19.6	54.0	V
9532.000000	35.7	5.2	18.3	54.0	V

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EMC Test Record (EMISSION)

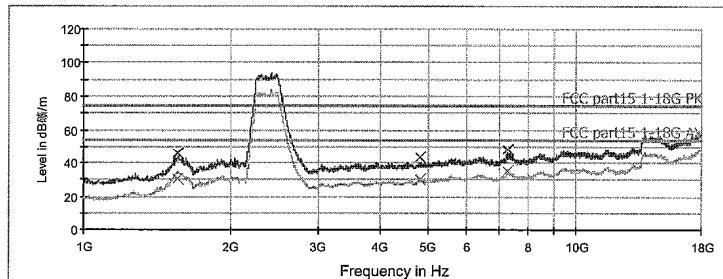
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 1GHz – 18GHz
Receiver: TUV FSP 30
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1559.000000	45.9	-14.1	28.1	74.0	H
4824.000000	43.0	-5.5	31.0	74.0	H
7239.000000	48.2	0.1	25.8	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1559.000000	30.5	-14.1	23.5	54.0	H
4824.000000	30.4	-5.5	23.6	54.0	H
7239.000000	35.1	0.1	18.9	54.0	H

Appendix 1
17017067 002



Produkte
Products

Page 7 of 34

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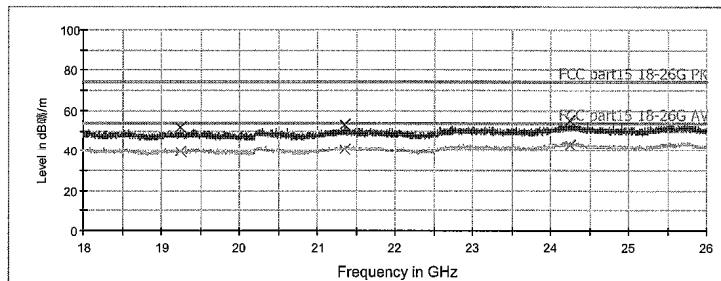
EMC Test Record (EMISSION)

Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHPO1
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1
Frequency Range: 18GHz - 26GHz
Receiver: TUV FSP 30
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
19248.000000	51.5	5.3	22.6	74.0	V
21345.000000	52.8	5.9	21.2	74.0	V
24244.000000	55.1	6.9	18.9	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
19248.000000	39.3	5.3	14.7	54.0	V
21345.000000	40.8	5.9	13.2	54.0	V
24244.000000	43.1	6.9	10.9	54.0	V

Date: 26/08/2010 - Time: 23:08:49

Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

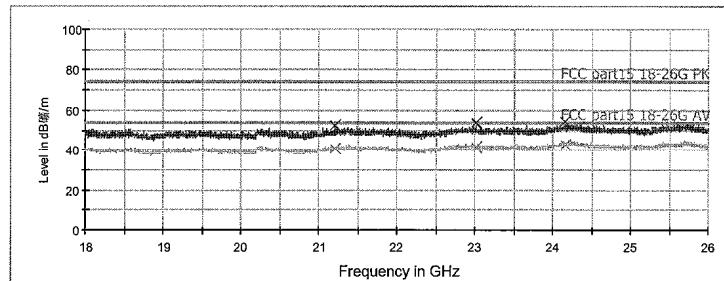
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 18GHz - 26GHz
Receiver: TUV FSP 30
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
21207.000000	52.4	5.8	21.6	74.0	H
23011.000000	53.5	6.5	20.5	74.0	H
24156.000000	54.7	6.9	19.3	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
21207.000000	40.6	5.8	13.4	54.0	H
23011.000000	41.3	6.5	12.7	54.0	H
24156.000000	42.9	6.9	11.1	54.0	H

Appendix 1
17017067 002



Produkte
Products

Page 9 of 34

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EMC Test Record (EMISSION)

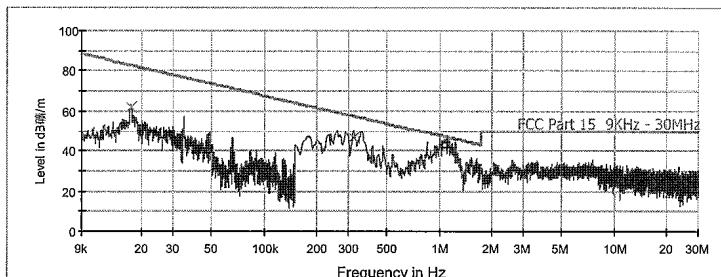
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dB μ V/m)	Average (dB μ V/m)	Corr. (dB)	Polarization
1.09000	41.8	---	20.3	V
0.017240	---	61.9	20.6	V
0.322000	---	46.1	20.8	V

Date: 26/08/2010 - Time: 23:42:12

Tested by: _____ Reviewed by: _____

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EMC Test Record (EMISSION)

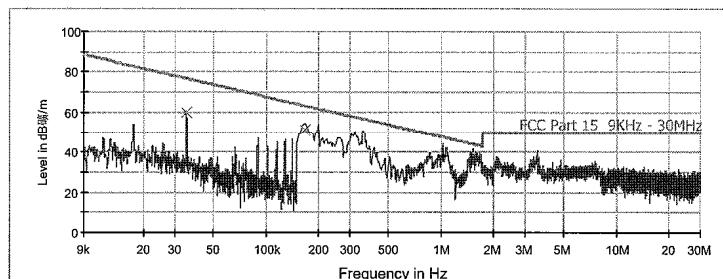
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dB μ V/m)	Average (dB μ V/m)	Corr. (dB)	Polarization
1.022000	38.3	—	20.3	H
0.034840	---	60.0	20.2	H
0.166000	---	50.7	20.7	H

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EMC Test Record (EMISSION)

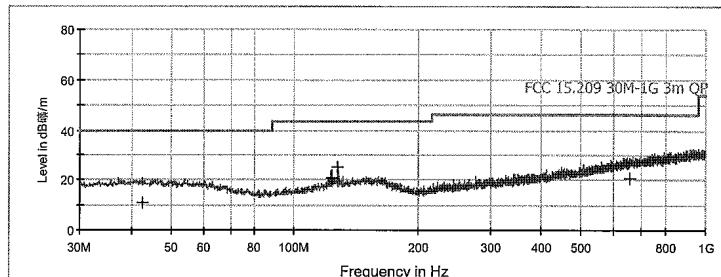
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHPO1
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 30MHz – 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
42.600000	10.7	14.6	29.3	40.0	V
124.000000	20.9	13.8	22.6	43.5	V
128.000000	24.8	14.1	18.7	43.5	V
657.100000	20.5	22.7	25.5	46.0	V

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EMC Test Record (EMISSION)

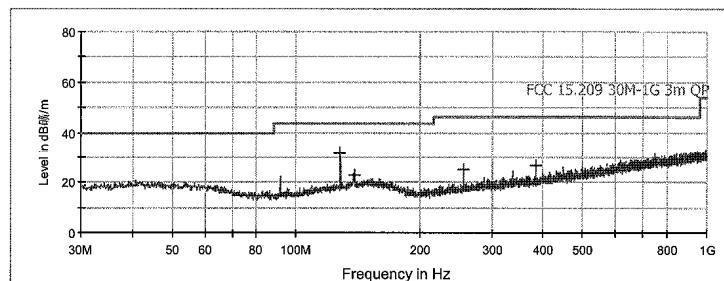
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. : DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 30MHz ~ 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
128.000000	31.7	14.1	11.8	43.5	H
138.300000	22.8	14.8	20.7	43.5	H
256.000000	25.2	13.7	20.8	46.0	H
384.000000	26.7	17.0	19.3	46.0	H

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EMC Test Record (EMISSION)

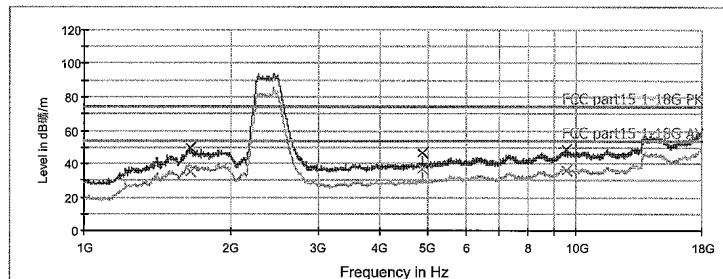
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 1GHz – 18GHz
Receiver: TUV FSP 30
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1644.000000	49.5	-13.7	24.5	74.0	V
4876.000000	46.9	-5.6	27.1	74.0	V
9530.000000	49.2	5.2	24.8	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1644.000000	34.7	-13.7	19.3	54.0	V
4876.000000	36.7	-5.6	17.3	54.0	V
9530.000000	36.1	5.2	17.9	54.0	V

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

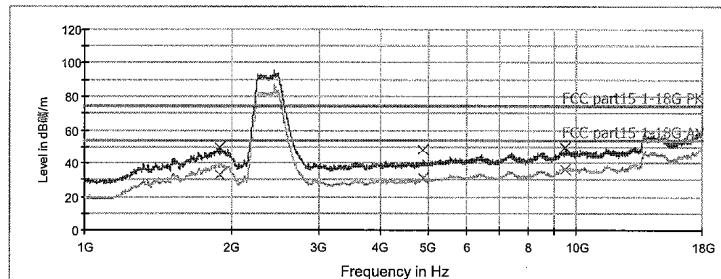
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No. 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 1GHz – 18GHz
Receiver: TUV FSP 30
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
1886.000000	50.2	-12.5	23.8	74.0	H
4876.000000	47.8	-5.6	26.2	74.0	H
9526.000000	49.8	5.1	24.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
1886.000000	32.4	-12.5	21.6	54.0	H
4876.000000	30.8	-5.6	23.2	54.0	H
9526.000000	36.1	5.1	17.9	54.0	H

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

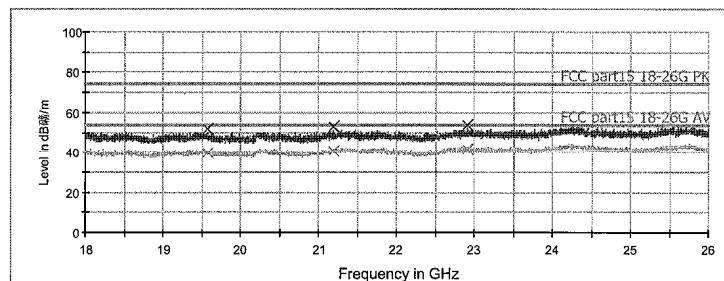
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
 Test Item: Wireless Stereo Headphones
 Identification: RF-RBWHP01
 Test Standard: FCC Part 15
 Test Detail: RE
 Operation Mode: Tx @ Mid channel
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage / Freq.: DC 3V
 Receipt No.: 163065935 400
 Report No.: 17017067 002
 Result: Pass
 Comment: Vertical

Subrange 1

Frequency Range: 18GHz - 26GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19586.000000	51.8	5.5	22.2	74.0	V
21187.000000	53.0	5.8	21.0	74.0	V
22907.000000	54.0	6.5	20.0	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19586.000000	39.5	5.5	14.5	54.0	V
21187.000000	40.6	5.8	13.4	54.0	V
22907.000000	41.7	6.5	12.3	54.0	V

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

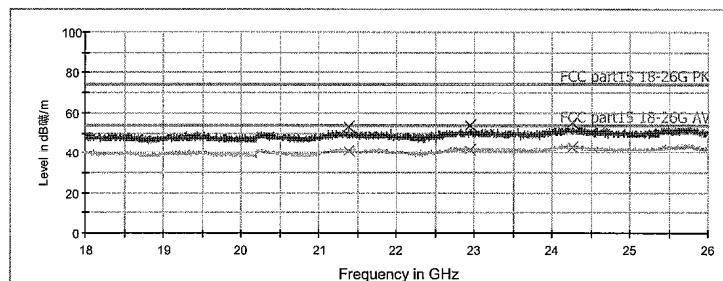
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
 Test Item: Wireless Stereo Headphones
 Identification: RF-RBWHP01
 Test Standard: FCC Part 15
 Test Detail: RE
 Operation Mode: Tx @ Mid channel
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage / Freq.: DC 3V
 Receipt No.: 163065935 400
 Report No.: 17017067 002
 Result: Pass
 Comment: Horizontal

Subrange 1

Frequency Range: 18GHz - 26GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
21387.000000	52.8	5.9	21.2	74.0	H
22946.000000	53.6	6.5	20.4	74.0	H
24268.000000	54.8	6.9	19.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
21387.000000	40.7	5.9	13.3	54.0	H
22946.000000	41.5	6.5	12.5	54.0	H
24268.000000	43.1	6.9	10.9	54.0	H

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

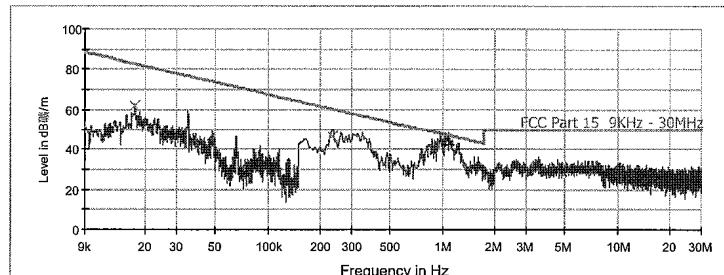
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dB μ V/m)	Average (dB μ V/m)	Corr. (dB)	Polarization
1.074000	42.3	---	20.3	V
0.017240	---	62.0	20.6	V
0.234000	---	46.2	20.9	V

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EMC Test Record (EMISSION)

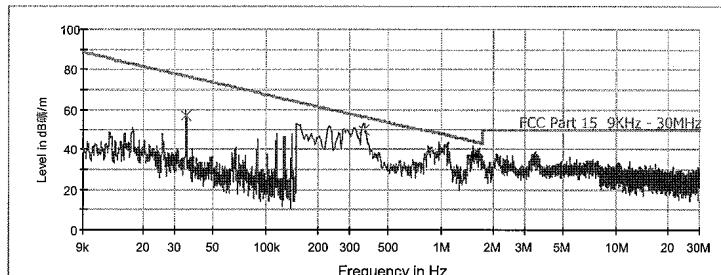
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Average (dB μ V/m)	Corr. (dB)	Polarization
1.522000	37.1	---	20.2	H
0.034840	---	57.4	20.2	H
0.358000	---	50.0	20.8	H

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

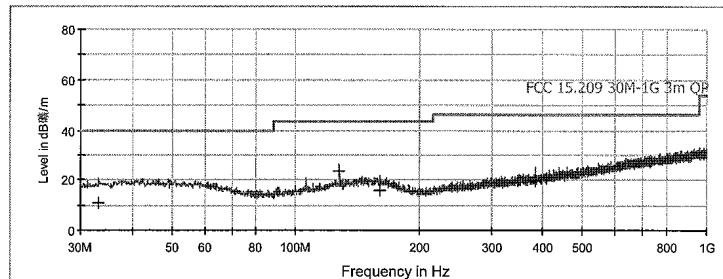
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 30MHz – 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
33.200000	10.9	13.9	29.1	40.0	V
128.000000	23.5	14.1	20.0	43.5	V
160.000000	16.0	15.6	27.5	43.5	V
384.000000	19.6	17.0	26.4	46.0	V

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

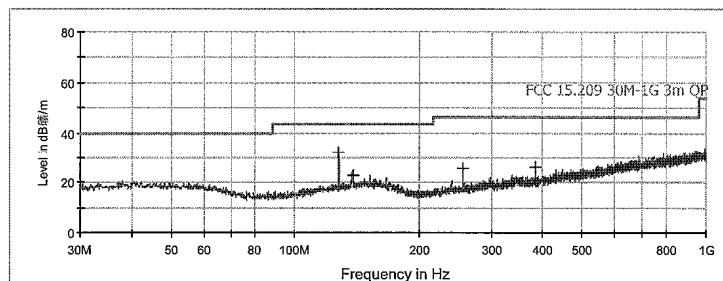
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 30MHz – 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
128.000000	32.0	14.1	11.5	43.5	H
138.300000	22.8	14.8	20.7	43.5	H
256.000000	25.4	13.7	20.6	46.0	H
384.000000	26.3	17.0	19.7	46.0	H

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

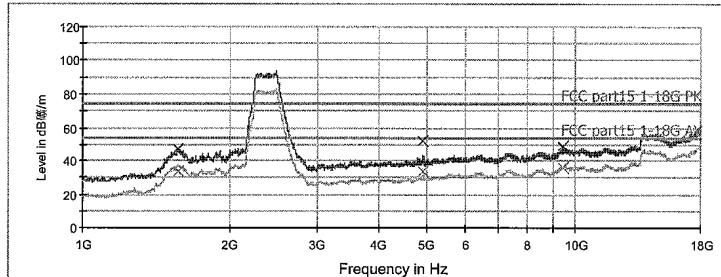
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 1GHz – 18GHz
Receiver: TUV FSP 30
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1567.000000	47.3	-14.1	26.7	74.0	V
4924.000000	52.0	-5.7	22.0	74.0	V
9424.000000	48.6	4.7	25.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1567.000000	33.3	-14.1	20.7	54.0	V
4924.000000	33.2	-5.7	20.8	54.0	V
9424.000000	35.6	4.7	18.4	54.0	V

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EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

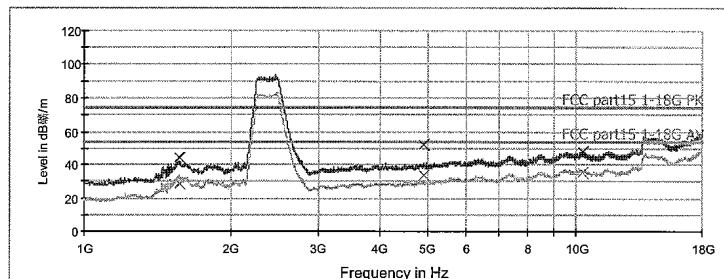
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
 Test Item: Wireless Stereo Headphones
 Identification: RF-RBWHP01
 Test Standard: FCC Part 15
 Test Detail: RE
 Operation Mode: Tx @ High channel
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage / Freq.: DC 3V
 Receipt No.: 163065935 400
 Report No.: 17017067 002
 Result: Pass
 Comment: Horizontal

Subrange 1

Frequency Range: 1GHz – 18GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1565.000000	44.1	-14.1	29.9	74.0	H
4924.000000	52.1	-5.7	21.9	74.0	H
10310.000000	48.3	5.4	25.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1565.000000	28.2	-14.1	25.8	54.0	H
4924.000000	33.2	-5.7	20.8	54.0	H
10310.000000	35.2	5.4	18.8	54.0	H

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

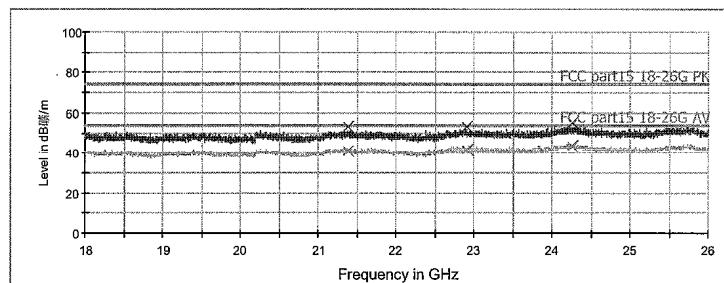
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 18GHz - 26GHz
Receiver: TUV FSP 30
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
21382.000000	52.8	5.9	21.2	74.0	V
22913.000000	53.0	6.5	21.0	74.0	V
24266.000000	55.0	6.9	19.0	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
21382.000000	40.9	5.9	13.1	54.0	V
22913.000000	41.6	6.5	12.4	54.0	V
24266.000000	43.2	6.9	10.8	54.0	V

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

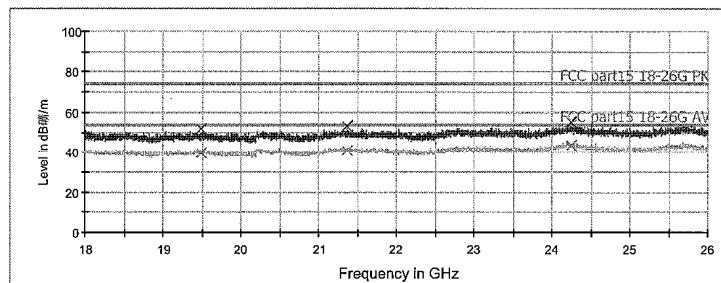
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo Headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. : DC 3V
Receipt No.: 163065935 400
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 18GHz - 26GHz
Receiver: TUV FSP 30
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19494.000000	51.5	5.4	22.5	74.0	H
21366.000000	53.2	5.9	20.8	74.0	H
24252.000000	54.9	6.9	19.1	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19494.000000	39.8	5.4	14.2	54.0	H
21366.000000	41.0	5.9	13.0	54.0	H
24252.000000	43.2	6.9	10.8	54.0	H

Test Graph of Spurious emissions, mode B

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EMC Test Record (EMISSION)

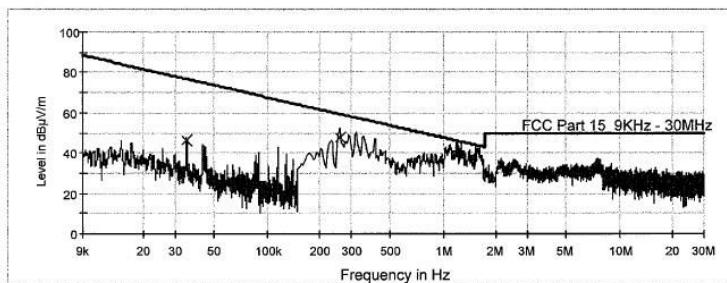
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Receiving
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 100
Report No. 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.514000	32.5	—	21.9	H
1.202000	40.7	—	20.3	H
0.034920	—	46.5	20.2	H
0.262000	—	47.6	20.9	H

Date: 29/07/2010 - Time: 23:21:53

Tested by
WDZ
2010 729
Checked

Reviewed by:
WLC
2010 8.02
Checked

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

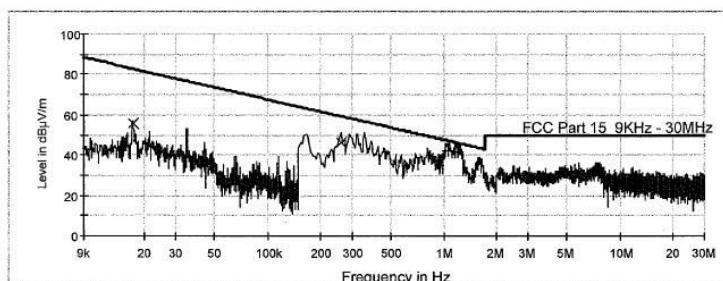
EMC Test Record (EMISSION)

Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Receiving
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 100
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC Active Loop Antenna HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Result Table_Single

Frequency (MHz)	QuasiPeak (dB μ V/m)	Average (dB μ V/m)	Corr. (dB)	Polarization
7.486000	29.9	—	21.9	V
1.062000	42.1	—	20.3	V
1.202000	41.6	—	20.3	V
0.017160	—	55.7	20.6	V
0.262000	—	46.1	20.9	V

Date: 29/07/2010 - Time: 23:15:16

Tested by: 

Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

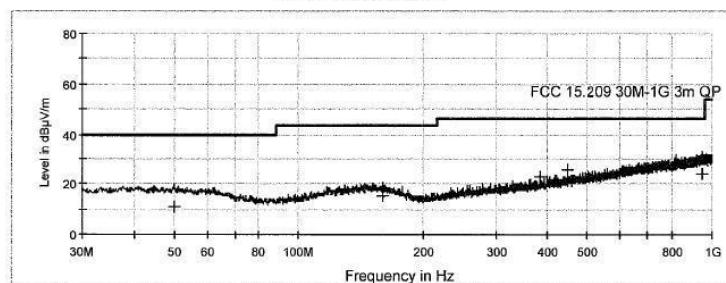
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Receiving
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 100
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 30MHz – 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
50.000000	10.9	14.3	29.1	40.0	V
160.000000	15.5	15.6	28.0	43.5	V
384.000000	22.7	17.0	23.3	46.0	V
448.000000	25.5	18.8	20.5	46.0	V
949.800000	24.1	26.4	21.9	46.0	V

Date: 29/07/2010 - Time: 22:18:38

Tested by: 

Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

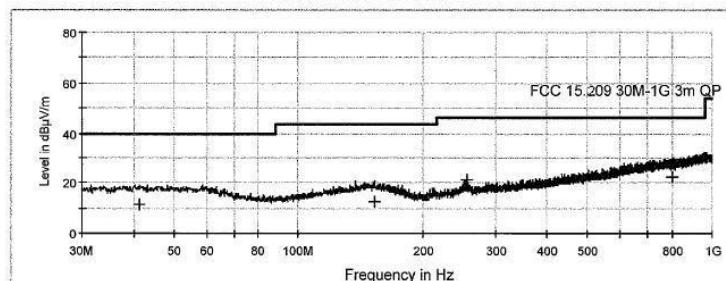
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Receiving
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 100
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 30MHz – 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
41.500000	11.4	14.7	28.6	40.0	H
152.700000	12.3	15.7	31.2	43.5	H
256.000000	21.4	13.7	24.6	46.0	H
801.700000	22.3	24.5	23.7	46.0	H

Date: 29/07/2010 - Time: 22:12:56

Tested by:  2010 729
Checked

Reviewed by:  2010 8.02
Checked

Appendix 1
17017067 002



Produkte
Products

Page 29 of 34

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

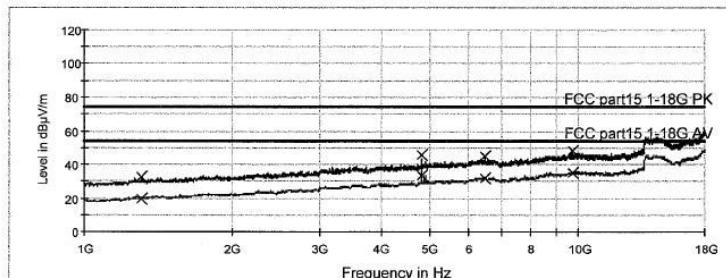
EMC Test Record (EMISSION)

Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
 Test Item: Wireless Stereo headphones
 Identification: RF-RBWHP01
 Test Standard: FCC Part 15
 Test Detail: RE
 Operation Mode: Receiving
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage / Freq.: DC 3V
 Receipt No.: 163065935 100
 Report No.: 17017067 002
 Result: Pass
 Comment: Vertical

Subrange 1
 Frequency Range: 1GHz – 18GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
1310.000000	32.4	-15.9	41.6	74.0	V
4823.000000	45.6	-5.9	28.4	74.0	V
6480.000000	44.8	-2.1	29.2	74.0	V
9719.000000	48.3	4.6	25.7	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarization
1310.000000	19.5	-15.9	34.5	54.0	V
4823.000000	33.4	-5.9	20.6	54.0	V
6480.000000	31.9	-2.1	22.1	54.0	V
9719.000000	34.8	4.6	19.2	54.0	V

Date: 29/07/2010 - Time: 16:48:37

Tested by: WDZ 2010 729 Reviewed by: WLC 2010 8.02
Checked

Appendix 1
17017067 002



Produkte
Products

Page 30 of 34

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

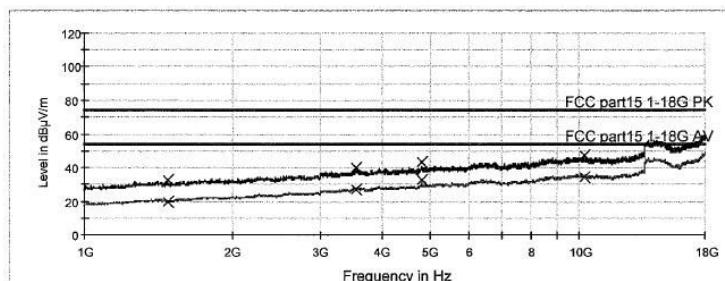
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
 Test Item: Wireless Stereo headphones
 Identification: RF-RBWH01
 Test Standard: FCC Part 15
 Test Detail: RE
 Operation Mode: Receiving
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage / Freq.: DC 3V
 Receipt No.: 163065935 100
 Report No.: 17017067 002
 Result: Pass
 Comment: Horizontal

Subrange 1

Frequency Range: 1GHz – 18GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1478.000000	32.6	-15.6	41.4	74.0	H
3554.000000	40.1	-7.6	33.9	74.0	H
4823.000000	43.3	-5.9	30.7	74.0	H
10265.000000	47.5	5.1	26.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1478.000000	19.5	-15.6	34.5	54.0	H
3554.000000	27.1	-7.6	26.9	54.0	H
4823.000000	32.3	-5.9	21.7	54.0	H
10265.000000	34.6	5.1	19.4	54.0	H

Date: 29/07/2010 - Time: 16:40:10

Tested by: WDZ 2010 729 Reviewed by: _____
Checked



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

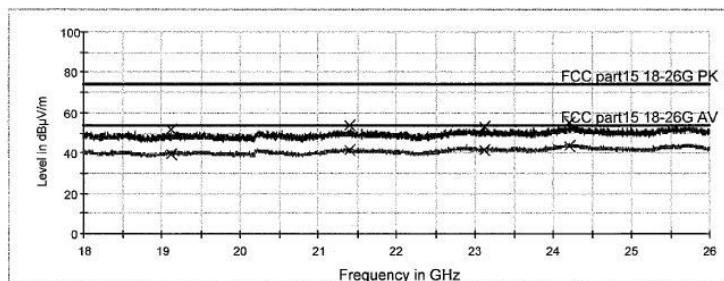
Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Receiving
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 100
Report No.: 17017067 002
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 18GHz - 26GHz
Receiver: TUV FSP 30
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19130.000000	51.6	5.2	22.4	74.0	V
21399.000000	53.5	5.9	20.5	74.0	V
23127.000000	53.0	6.6	21.0	74.0	V
24213.000000	55.1	6.9	18.9	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19130.000000	39.6	5.2	14.4	54.0	V
21399.000000	41.3	5.9	12.7	54.0	V
23127.000000	41.3	6.6	12.7	54.0	V
24213.000000	43.3	6.9	10.7	54.0	V

Date: 29/07/2010 - Time: 17:15:59

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

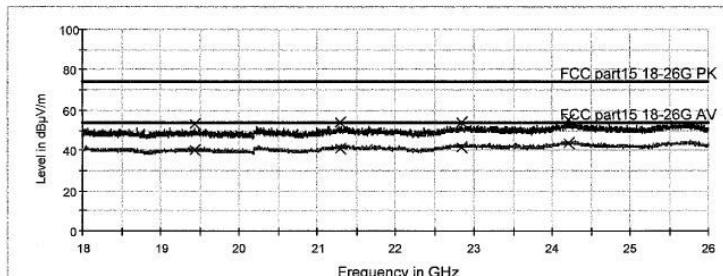
EMC Test Record (EMISSION)

Test Information

Manufacturer: Beautiful Enterprise Co.,Ltd.
Test Item: Wireless Stereo headphones
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Receiving
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: DC 3V
Receipt No.: 163065935 100
Report No.: 17017067 002
Result: Pass
Comment: Horizontal

Subrange 1
Frequency Range: 18GHz - 26GHz
Receiver: TUV FSP 30
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit. (dBµV/m)	Polarization
19435.000000	52.8	5.4	21.2	74.0	H
21297.000000	53.5	5.9	20.5	74.0	H
22835.000000	53.8	6.4	20.2	74.0	H
24215.000000	55.0	6.9	19.0	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19435.000000	40.1	5.4	13.9	54.0	H
21297.000000	41.1	5.9	12.9	54.0	H
22835.000000	41.6	6.4	12.4	54.0	H
24215.000000	43.3	6.9	10.7	54.0	H

Date: 29/07/2010 - Time: 17:10:28

Tested by:  Reviewed by: 

Test Graph of Conducted emissions, mode C

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

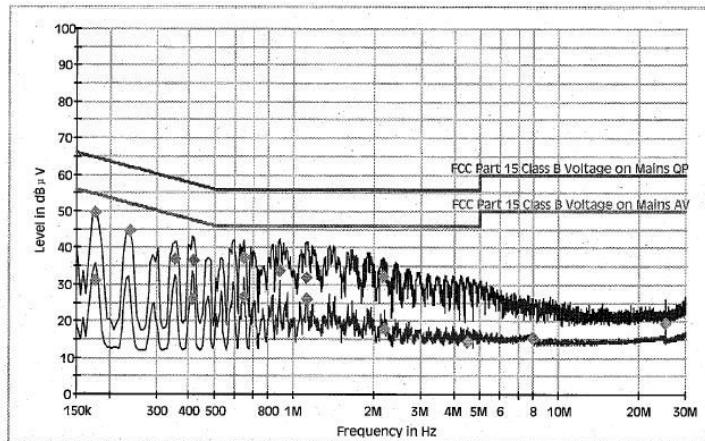
EMC Test Record (EMISSION)

Test Information

Manufacturer: Beautiful enterprise co., ltd
Test Item: Wireless Stereo Headphone
Identification: RF-RBWHP01
Test Standard: FCC Part 15
Test Detail: Conducted Emission
Operation Mode: C
Climate Condition: 23°C; 52%RH; 101 kPa.
Test Voltage/ Freq.: AC120V / 60Hz
Port / Line: AC Mains
Receipt No.: 163065935 100
Report No.: 17017067 001
Result: Pass
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30
Level Unit: dB μ V

Subrange 150kHz - 30MHz	Detectors Peak; Average	IF Bandwidth 9kHz	Step Size 4.5kHz	Meas. Time 10ms	Receiver ESCS 30
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2010-7-29, 14:28:00

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line
0.177000	49.6	1000.000	9.000	GND	N
0.240000	44.4	1000.000	9.000	GND	N
0.352500	36.8	1000.000	9.000	GND	L1
0.415500	36.6	1000.000	9.000	GND	L1
0.645000	37.3	1000.000	9.000	GND	L1
0.888000	33.5	1000.000	9.000	GND	L1
1.122000	31.8	1000.000	9.000	GND	L1
2.179500	32.1	1000.000	9.000	GND	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.177000	10.2	15.1	64.6	
0.240000	10.2	17.7	62.1	
0.352500	9.9	22.1	58.9	
0.415500	10.0	20.9	57.5	
0.645000	9.9	18.7	56.0	
0.888000	10.0	22.5	56.0	
1.122000	9.9	24.2	56.0	
2.179500	10.1	23.9	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line
0.177000	31.2	1000.000	9.000	GND	L1
0.411000	25.8	1000.000	9.000	GND	L1
0.649500	26.7	1000.000	9.000	GND	L1
1.122000	26.0	1000.000	9.000	GND	L1
2.188500	17.8	1000.000	9.000	GND	L1
4.524000	14.1	1000.000	9.000	GND	L1
8.016000	15.3	1000.000	9.000	GND	N
25.228500	19.2	1000.000	9.000	GND	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.177000	10.2	23.5	54.6	
0.411000	10.0	21.8	47.6	
0.649500	9.9	19.3	46.0	
1.122000	9.9	20.0	46.0	
2.188500	10.1	28.2	46.0	
4.524000	10.2	31.9	46.0	
8.016000	10.4	34.7	50.0	
25.228500	11.4	30.8	50.0	

2010-7-29, 14:28:00

Tested by:  Reviewed by: 

HCH
2010.7.30
Checked

WLC
2010.8.02
Checked