

Prüfbericht - Nr.: 17017067 001
Test Report No.:
Seite 1 von 38
Page 1 of 38
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-RBWHP01

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:

 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:



2010-08-12

Sam Lin/ Project Manager

kontrolliert/ reviewed by:



2010-08- 12

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 Docking station.

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 001
Test Report No.

Seite 2 von 38
Page 2 of 38

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 IN 100kHz BANDWIDTH

RESULT: Passed

5.1.5 POWER SPECTRAL DENSITY

RESULT: Passed

5.1.6 SPURIOUS EMISSION

RESULT: Passed

5.1.7 RADIATED EMISSIONS

RESULT: Passed

5.1.8 CONDUCTED EMISSIONS

RESULT: Passed

6.1.1 RF EXPOSURE EVALUATION

RESULT: Not applicable

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.....	9
4.1 PRINCIPLE OF CONFIGURATION SELECTION	9
4.2 TEST OPERATION AND TEST SOFTWARE	9
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	9
4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	10
4.5 TEST SETUP DIAGRAM	10
5. TEST RESULTS	12
5.1 TRANSMITTER REQUIREMENT & TEST SUITES.....	12
5.1.1 Antenna Requirement.....	12
5.1.2 Peak Output Power	13
5.1.3 6dB Bandwidth and 99% Bandwidth	17
5.1.4 Conducted Spurious Emissions in 100kHz Bandwidth	24
5.1.5 Power Spectral Density	27
5.1.6 Spurious Emission	31
5.1.7 Radiated emissions	32
5.1.8 Conducted emissions	33
6. RADIO FREQUENCY (RF) EXPOSURE.....	34
6.1 RF EXPOSURE COMPLIANCE	34
6.1.1 RF Exposure Evaluation.....	34
7. PHOTOGRAPHS OF THE TEST SET-UP	35
8. LIST OF TABLES.....	38
9. LIST OF PHOTOGRAPHS.....	38

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 4 von 38
Page 4 of 38

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

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
Conducted Emissions				
Receiver	Rohde & Schwarz	ESCS30	100316	2011-01-27
LISN	Rohde & Schwarz	ESH3-Z5	100114	2011-07-06
Radiated Emissions				
EMI Test Receiver	Rohde & Schwarz	ESCI3	100216	2011-01-17
Trilog-Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	209	2011-08-21
Pre-amplifier	MITEQ	AFS42-00101800-25-S-42	1101599	2011-07-31
3m Anechoic Chamber	Albatross Project GmbH	N/A	N/A	2011-02-10

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
CE	Disturbance Voltage (dBuV)	$U=\pm 2.56\text{dB}, k=2, \sigma=95\%$
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 is charging cradle base station, the EUT contains two antennas, but only one antenna is used for transmitting at one time. The EUT provides the wireless audio source capability for connecting to the headphones.

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-RBWHP01
FCC ID	UZZRBWHP01TX
IC ID	7633A-RBWHP01TX
Rated Input Power	DC 5V (via AC/DC adapter)
Rated input Current	1A

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. Standby
- C. Charging
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

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

Table 6: Test Auxiliary Equipments

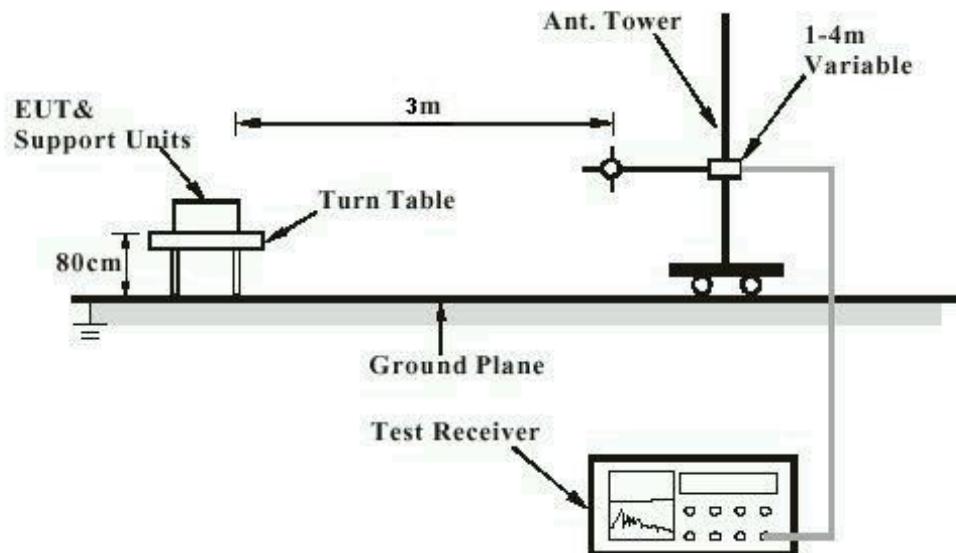
Description	Manufacturer	Model	Specification
AC/DC Adaptor	Shenzhen Jingquanhua Electronics Co., Ltd.	NSA6EU-050100	Input voltage: AC 100-240V 50/60Hz, 0.5A Output voltage: DC 5V, 1A

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 001
Test Report No.

Seite 11 von 38
Page 11 of 38

Diagram of Measurement Equipment Configuration for Conduction Measurement

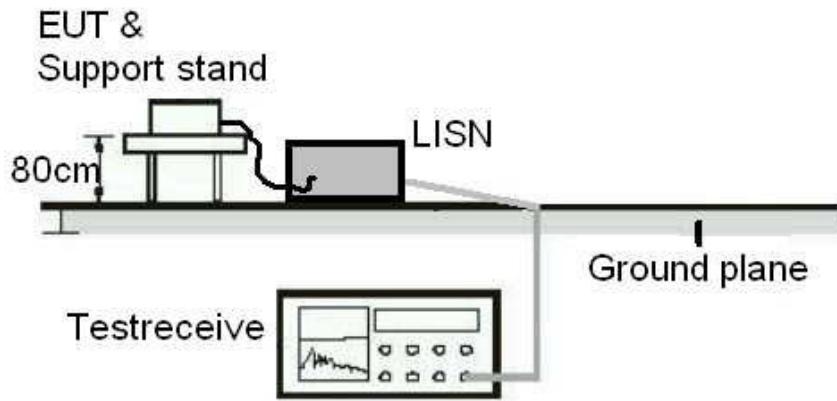
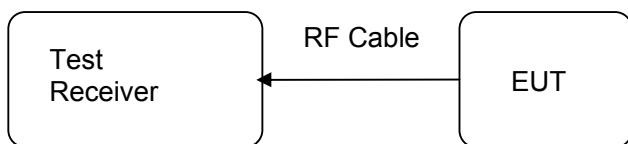


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2010-07-21
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 001
Test Report No.

Seite 13 von 38
Page 13 of 38

5.1.2 Peak Output Power

RESULT:

Passed

Test date	:	2010-07-21
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 7: Test result of Peak Output Power, Antenna 0

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	
Low Channel	2412	14.85	0.030549	1
Middle Channel	2438	14.55	0.028510	1
High Channel	2462	14.18	0.026182	1

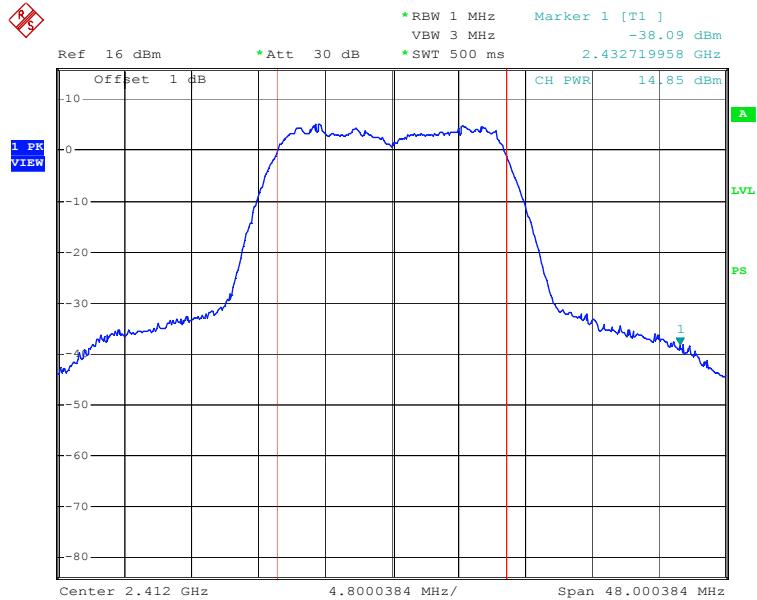
Table 8: Test result of Peak Output Power, Antenna 1

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	
Low Channel	2412	14.56	0.028576	1
Middle Channel	2438	13.96	0.024889	1
High Channel	2462	13.53	0.022542	1

Prüfbericht - Nr.: 17017067 001
Test Report No.

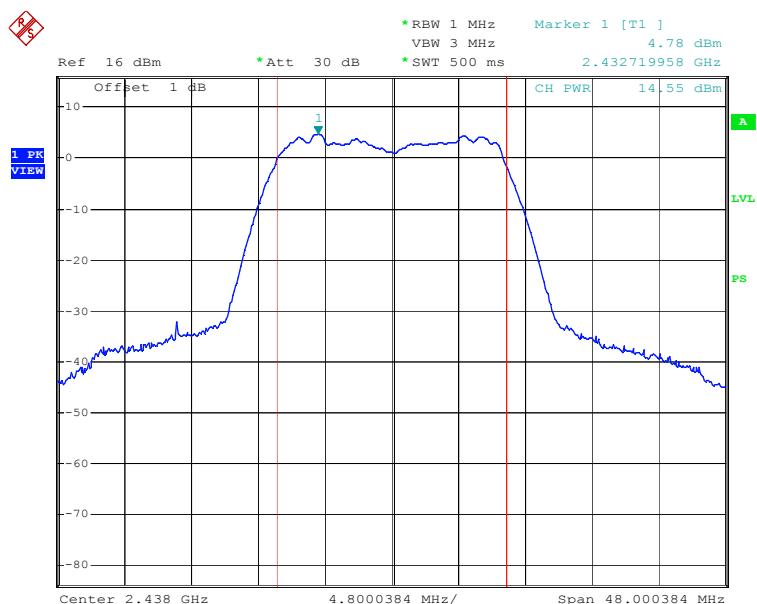
Seite 14 von 38
Page 14 of 38

Test Graph of Peak Output Power
Antenna 0, Low Channel



Date: 21.JUL.2010 15:27:32

Antenna 0, Middle Channel

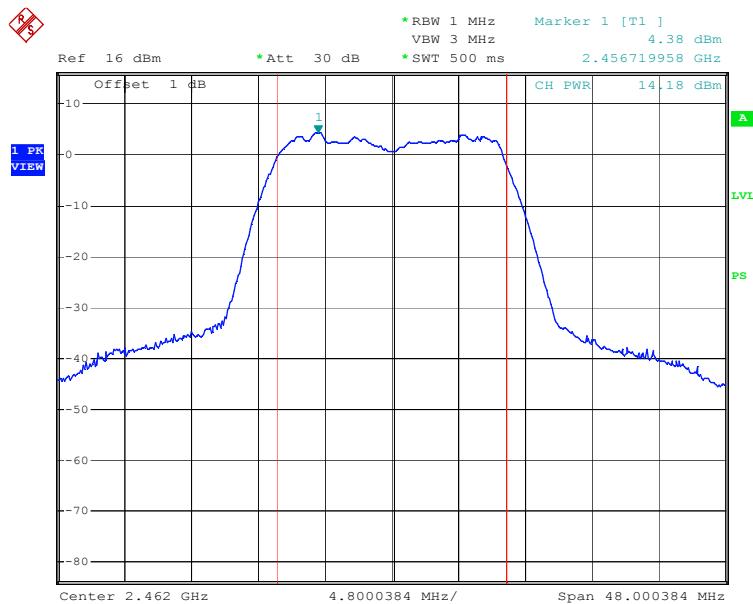


Date: 21.JUL.2010 15:25:16

Prüfbericht - Nr.: 17017067 001
Test Report No.

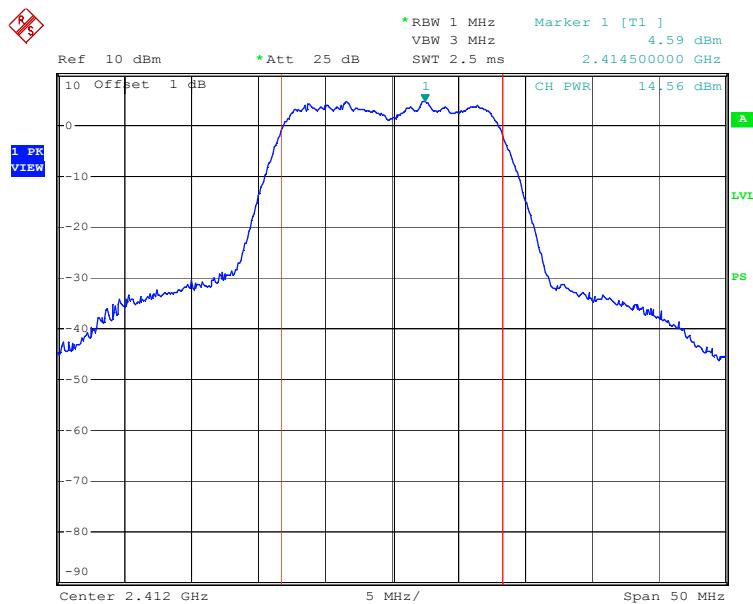
Seite 15 von 38
Page 15 of 38

Antenna 0, High Channel



Date: 21.JUL.2010 15:30:03

Antenna 1, Low Channel

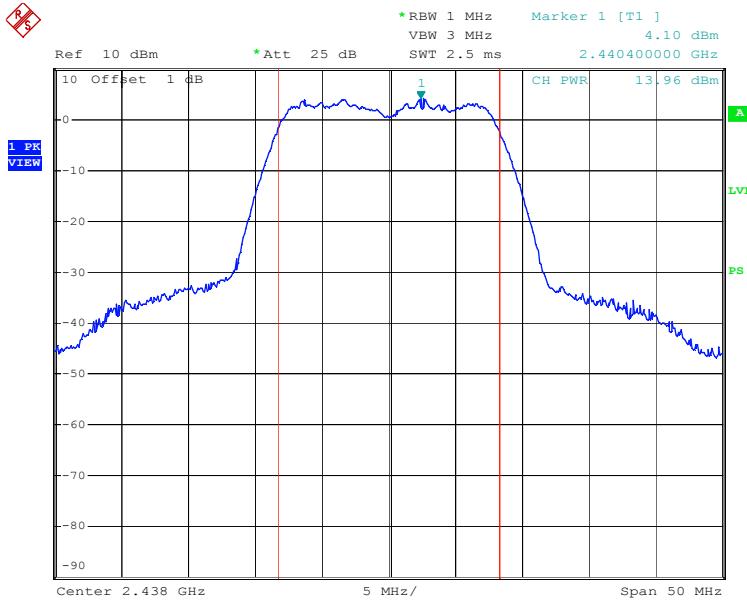


Date: 21.JUL.2010 16:24:49

Prüfbericht - Nr.: 17017067 001
Test Report No.

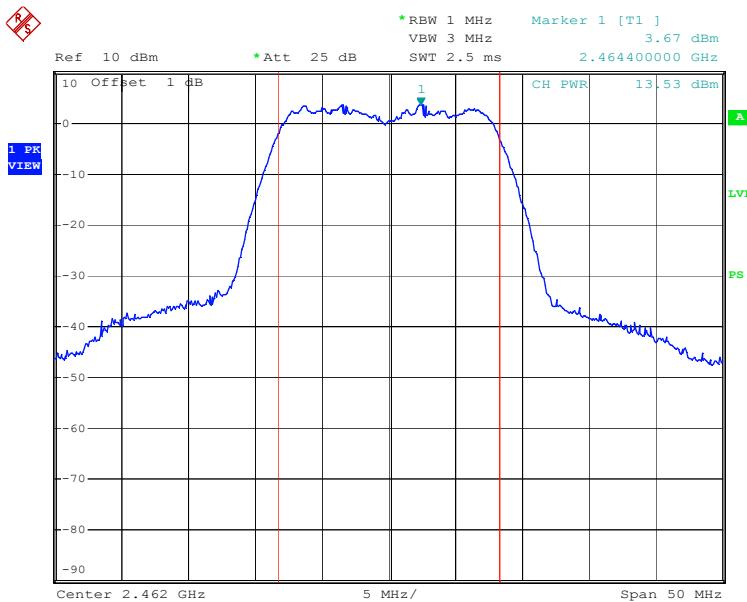
Seite 16 von 38
Page 16 of 38

Antenna 1, Middle Channel



Date: 21.JUL.2010 16:22:19

Antenna 1, High Channel



Date: 21.JUL.2010 16:19:46

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 17 von 38
Page 17 of 38

5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

Passed

Date of testing	:	2010-07-21
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 9: Test result of 6dB Bandwidth

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Limit
		Ant 0	Ant 1	
Low Channel	2412	16.20	16.30	500kHz
Mid Channel	2438	16.30	16.30	500kHz
High Channel	2462	16.20	16.40	500kHz

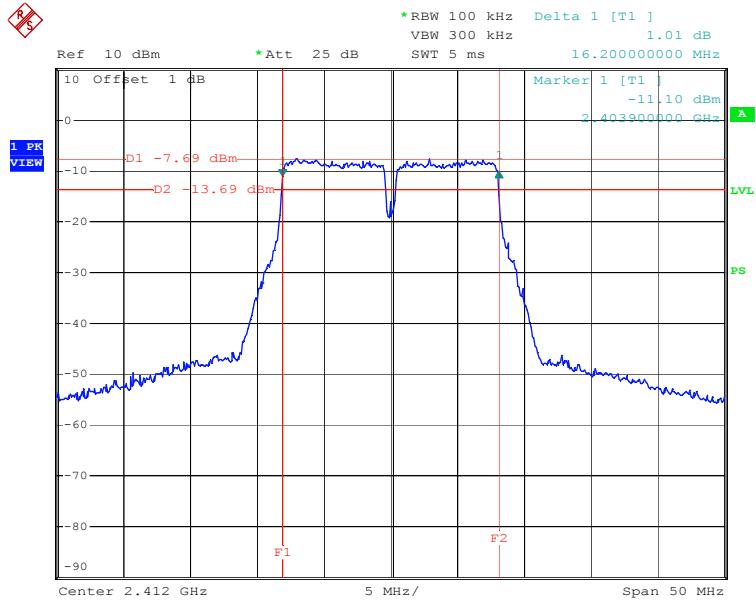
Table 10: Test result of 99% Bandwidth

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)		Limit
		Ant 0	Ant 1	
Low Channel	2412	16.40	16.40	500kHz
Mid Channel	2438	16.40	16.40	500kHz
High Channel	2462	16.40	16.40	500kHz

Prüfbericht - Nr.: 17017067 001
Test Report No.

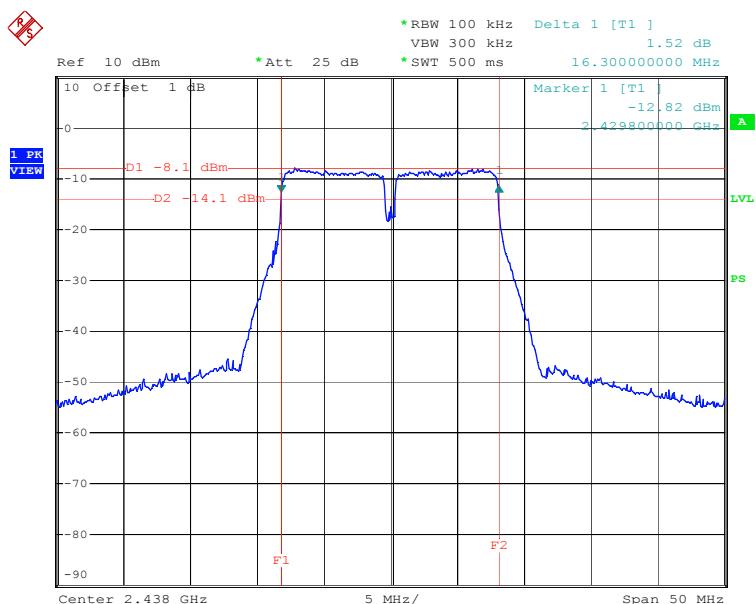
Seite 18 von 38
Page 18 of 38

Test Graph of 6dB Bandwidth
Antenna 0, Low Channel



Date: 21.JUL.2010 15:41:29

Antenna 0, Middle Channel



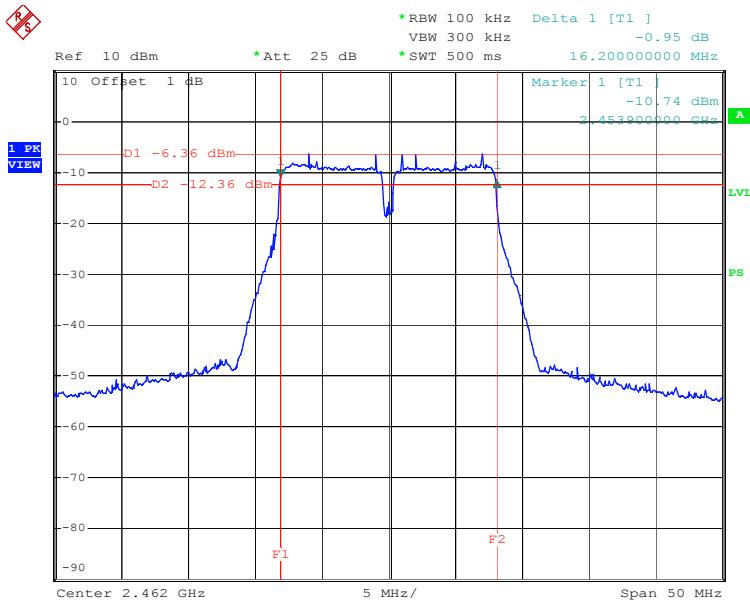
Date: 21.JUL.2010 15:38:11

Prüfbericht - Nr.: 17017067 001

Test Report No.

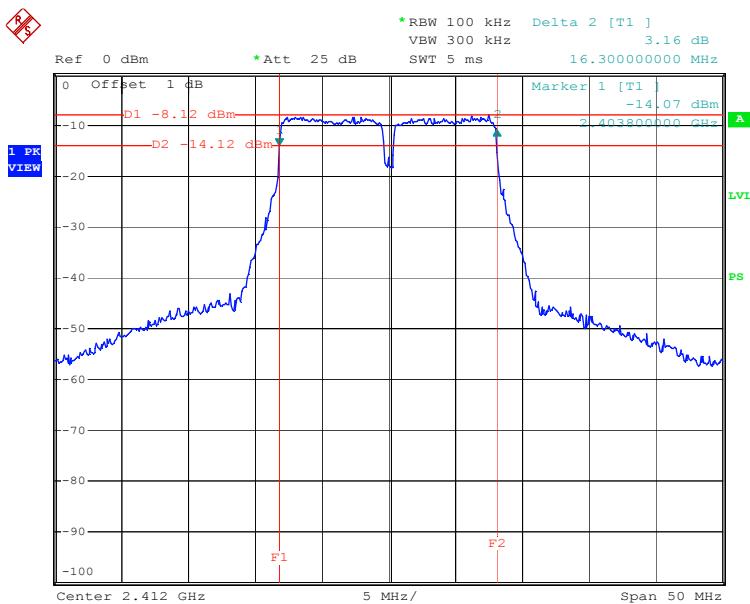
Seite 19 von 38
Page 19 of 38

Antenna 0, High Channel



Date: 21.JUL.2010 15:35:42

Antenna 1, Low Channel



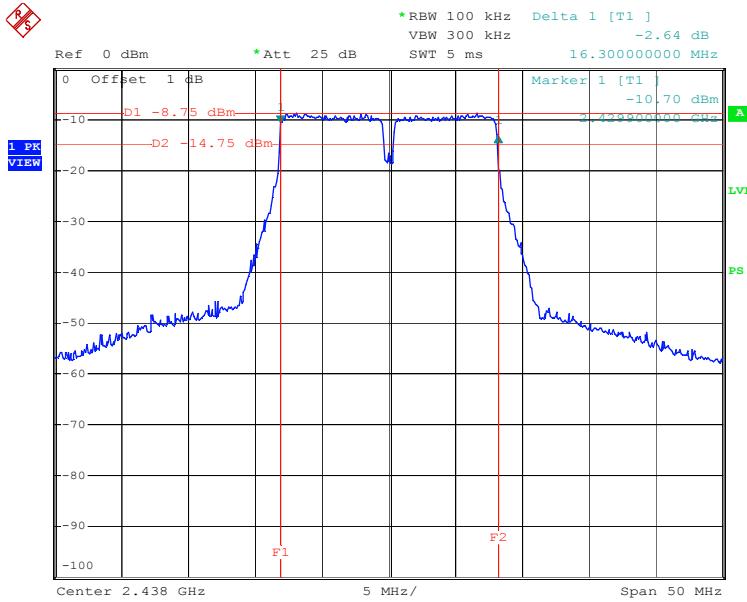
Date: 21.JUL.2010 16:33:25

Prüfbericht - Nr.: 17017067 001

Test Report No.

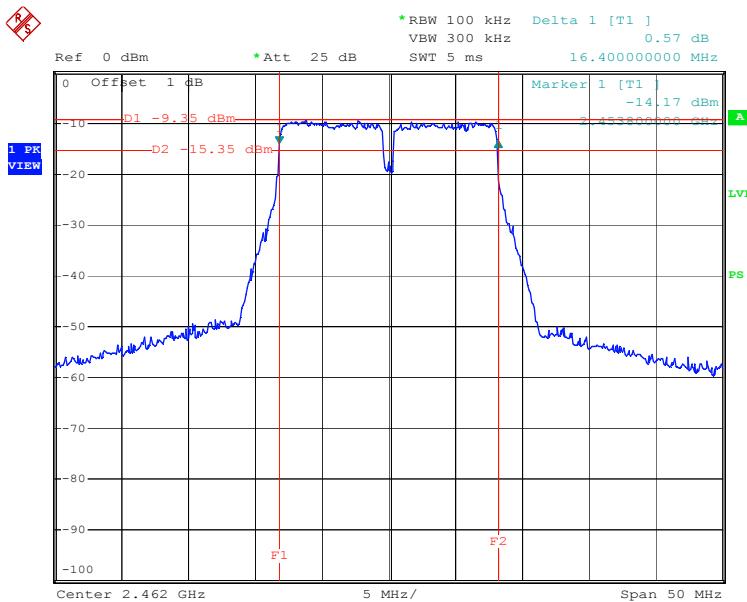
Seite 20 von 38
Page 20 of 38

Antenna 1, Middle Channel



Date: 21.JUL.2010 16:36:01

Antenna 1, High Channel

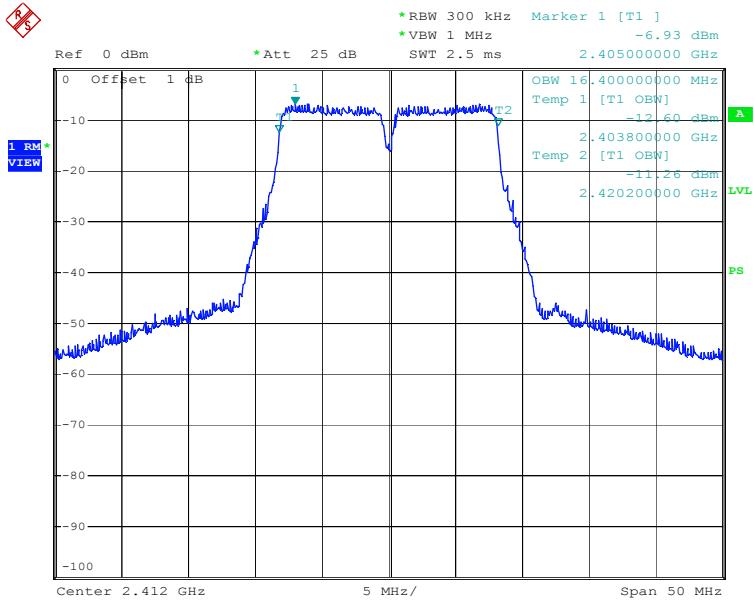


Date: 21.JUL.2010 16:38:50

Prüfbericht - Nr.: 17017067 001
Test Report No.

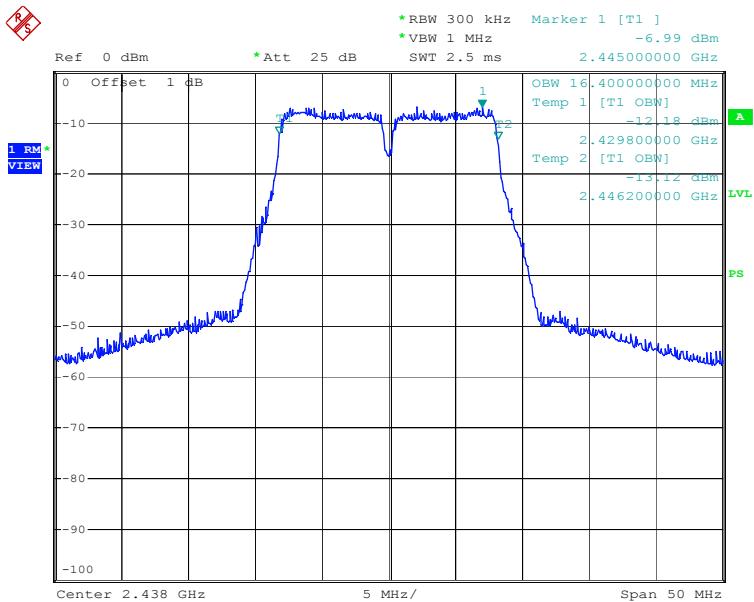
Seite 21 von 38
Page 21 of 38

Test Graph of 99% Bandwidth
Antenna 0, Low Channel



Date: 21.JUL.2010 16:07:35

Antenna 0, Middle Channel

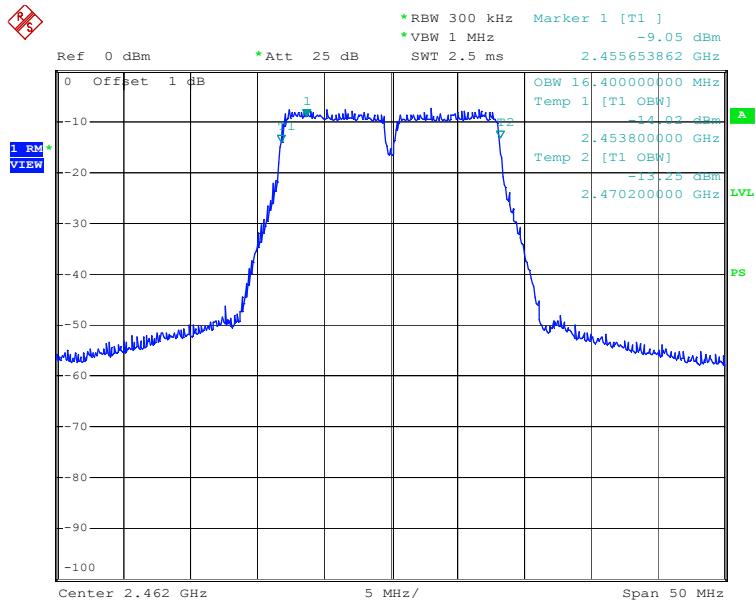


Date: 21.JUL.2010 16:06:24

Prüfbericht - Nr.: 17017067 001
Test Report No.

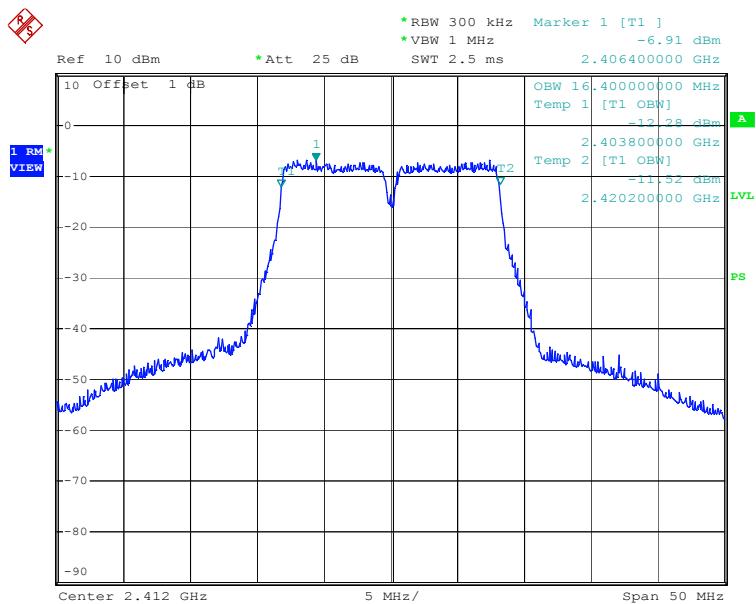
Seite 22 von 38
Page 22 of 38

Antenna 0, High Channel



Date: 21.JUL.2010 16:04:49

Antenna 1, Low Channel



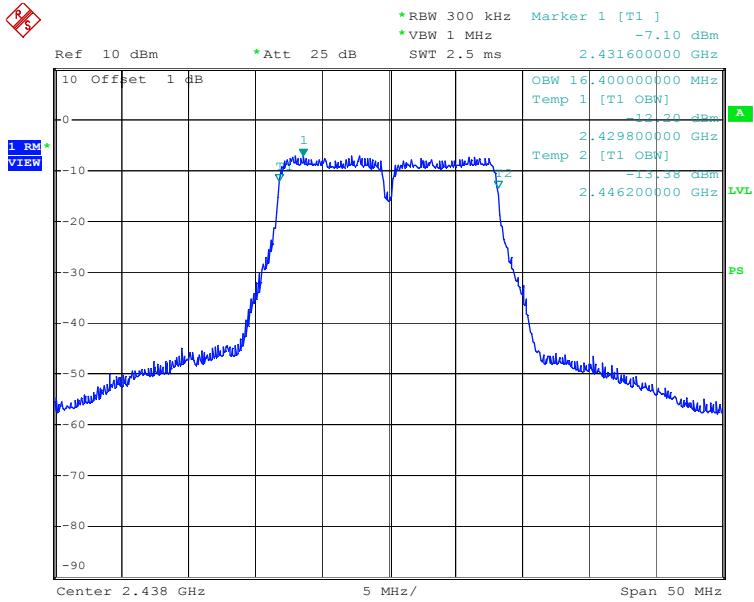
Date: 21.JUL.2010 16:14:49

Prüfbericht - Nr.: 17017067 001

Test Report No.

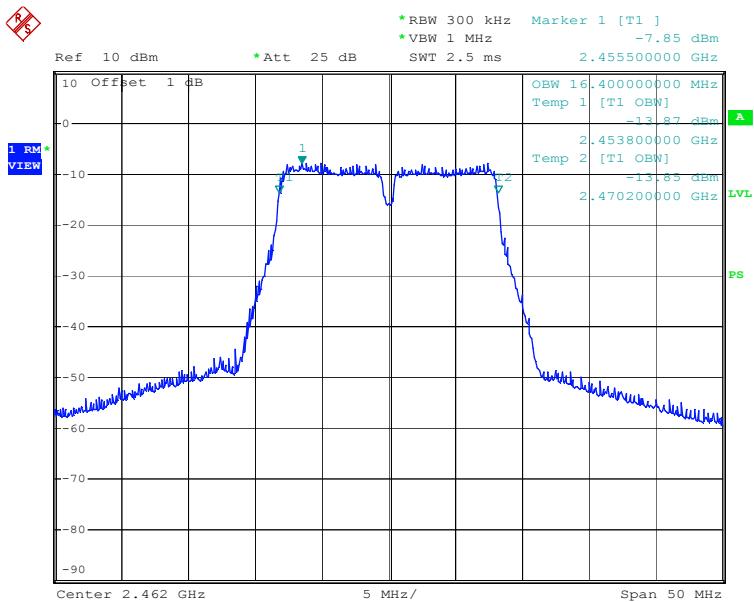
Seite 23 von 38
Page 23 of 38

Antenna 1, Middle Channel



Date: 21.JUL.2010 16:15:50

Antenna 1, High Channel



Date: 21.JUL.2010 16:17:12

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 24 von 38
Page 24 of 38

5.1.4 Conducted Spurious Emissions in 100kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2010-07-21 to 2010-08-12
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

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

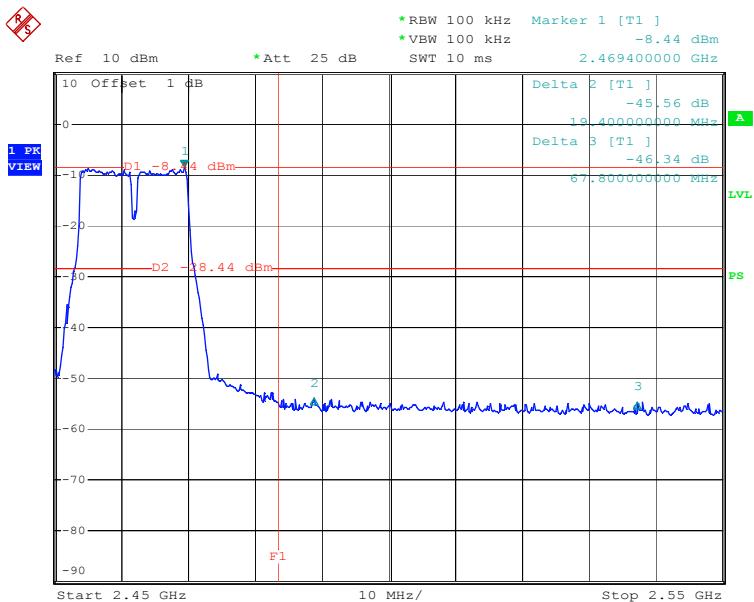
Refer to appendix 1 for details.

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 25 von 38
Page 25 of 38

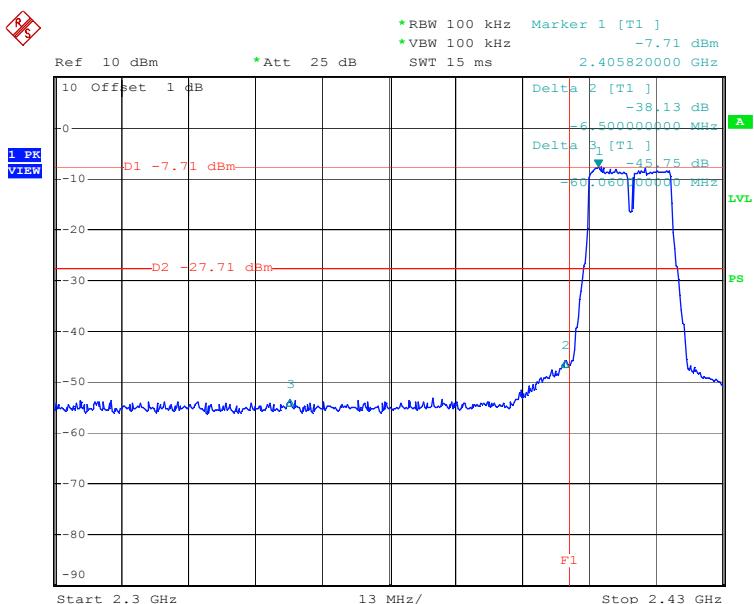
Test Graph of Band Edge measured in 100kHz Bandwidth

Antenna 0, Low Channel



Date: 21.JUL.2010 15:47:14

Antenna 0, High Channel

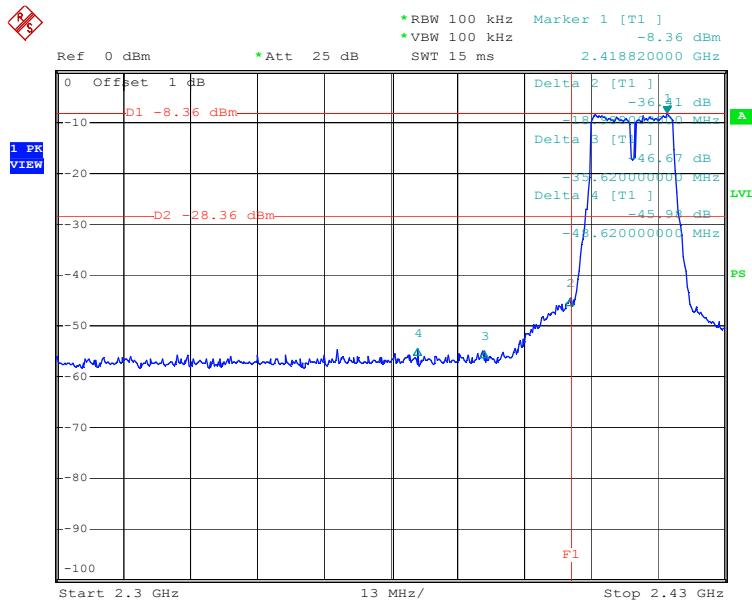


Date: 21.JUL.2010 15:51:02

Prüfbericht - Nr.: 17017067 001
Test Report No.

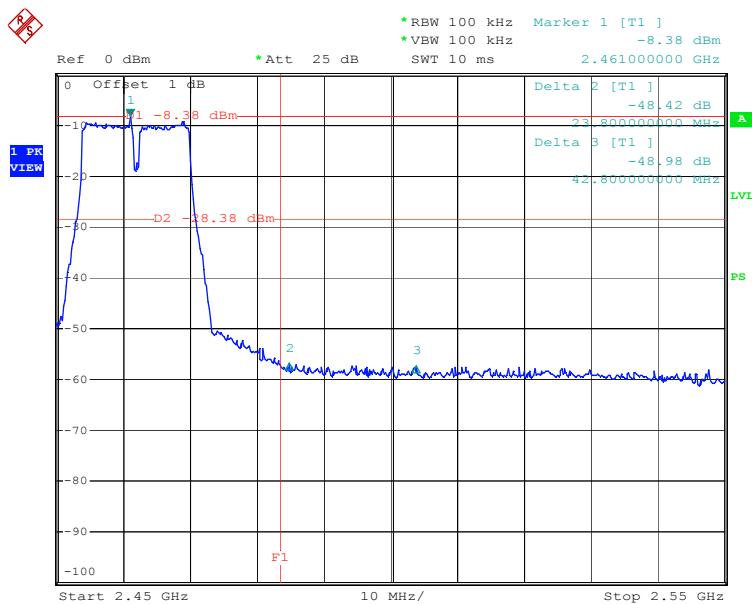
Seite 26 von 38
Page 26 of 38

Antenna 1, Low Channel



Date: 21.JUL.2010 16:45:52

Antenna 1, High Channel



Date: 21.JUL.2010 16:42:32

Prüfbericht - Nr.: **17017067 001**
Test Report No.

Seite 27 von 38
Page 27 of 38

5.1.5 Power Spectral Density

RESULT:

Passed

Date of testing : 2010-07-21
 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 11: Test result of power spectral density

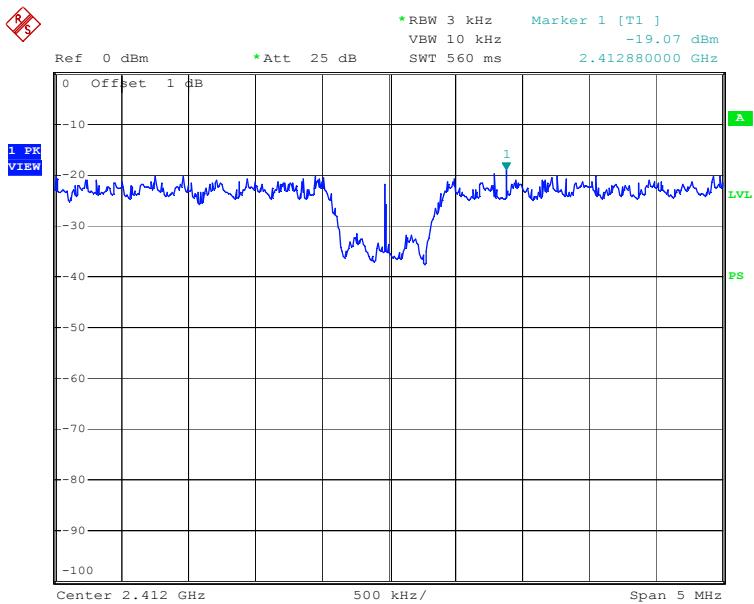
Maximum power spectral density			
Low Channel (dBm/1MHz)	Middle Channel (dBm/1MHz)	High Channel (dBm/1MHz)	Limit (dBm/3kHz)
Antenna 0			
-19.07	-20.23	-20.68	8
Antenna 1			
-20.88	-20.44	-20.69	8

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 28 von 38
Page 28 of 38

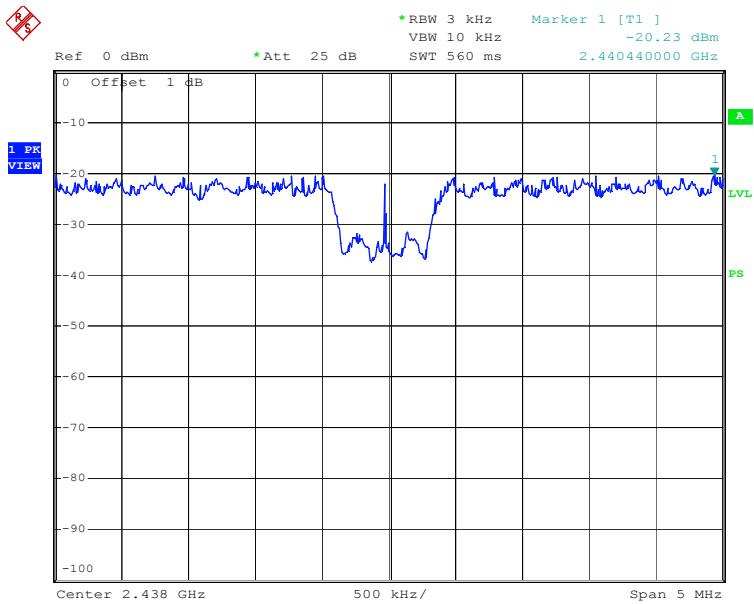
Test Graph of Power Spectral Density

Antenna 0, Low Channel



Date: 21.JUL.2010 15:54:00

Antenna 0, Middle Channel

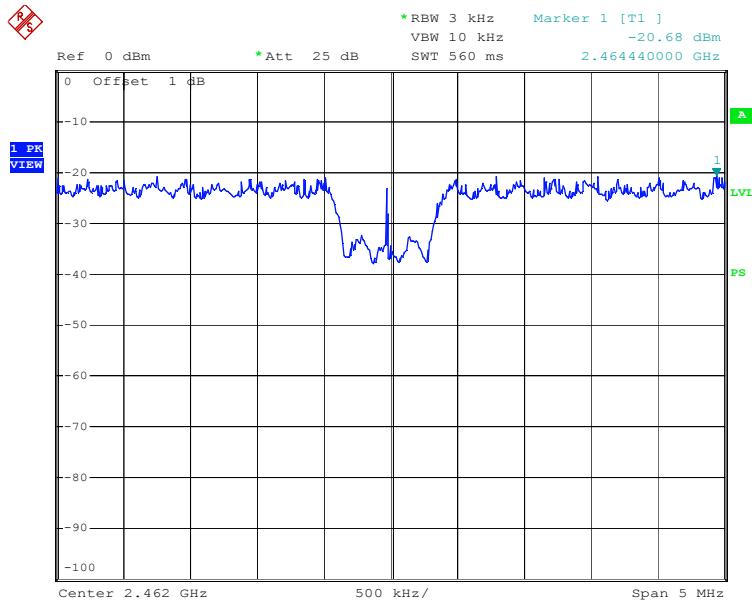


Date: 21.JUL.2010 16:00:15

Prüfbericht - Nr.: 17017067 001
Test Report No.

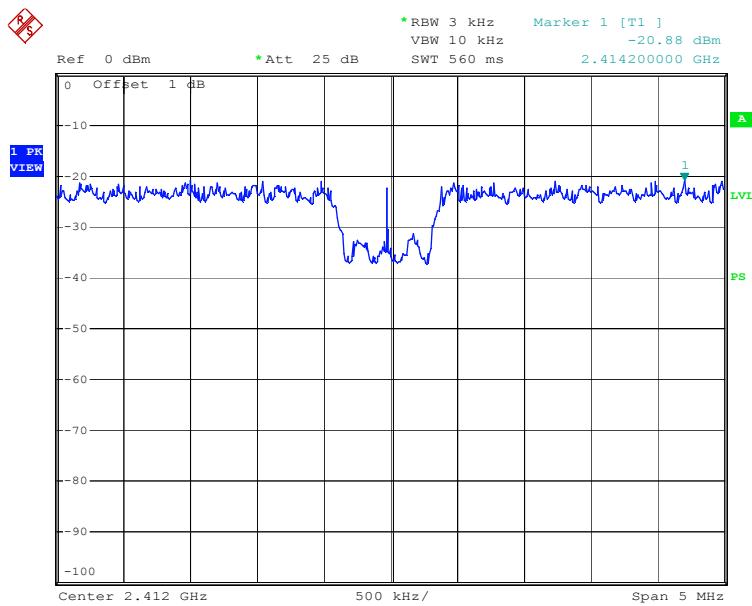
Seite 29 von 38
Page 29 of 38

Antenna 0, High Channel



Date: 21.JUL.2010 16:02:17

Antenna 1, Low Channel

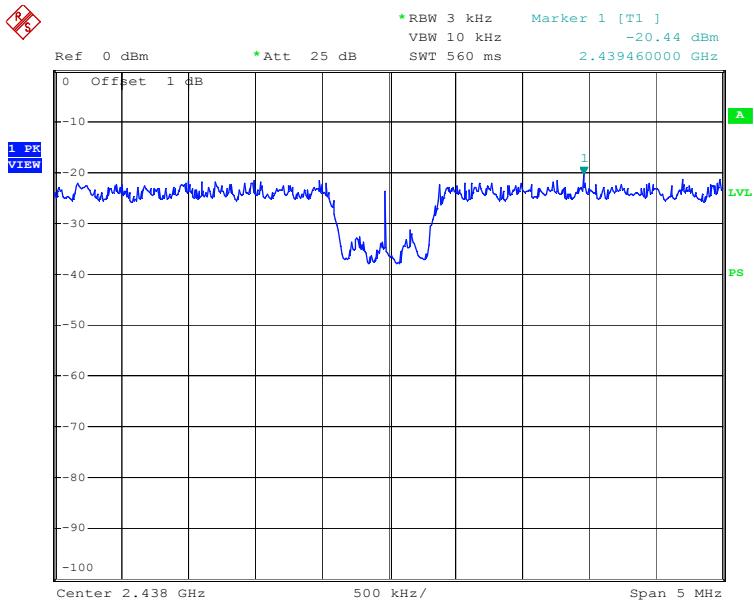


Date: 21.JUL.2010 16:30:28

Prüfbericht - Nr.: 17017067 001
Test Report No.

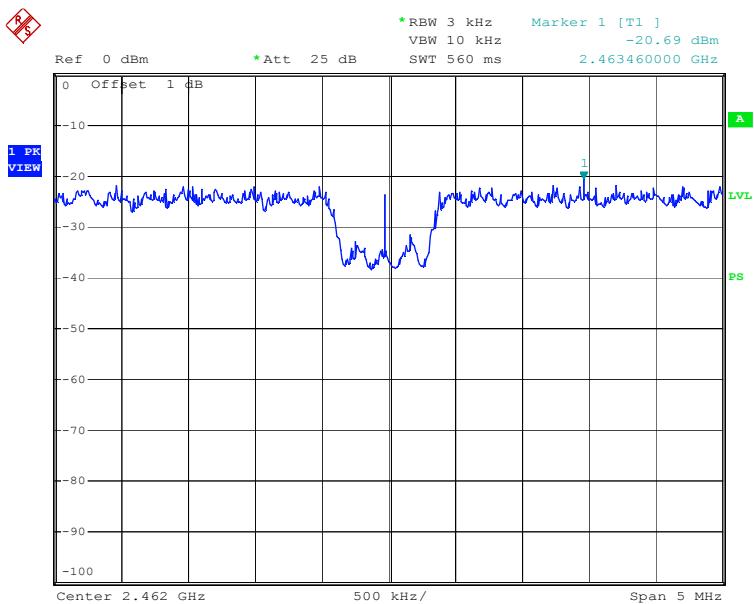
Seite 30 von 38
Page 30 of 38

Antenna 1, Middle Channel



Date: 21.JUL.2010 16:29:08

Antenna 1, High Channel



Date: 21.JUL.2010 16:27:43

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 31 von 38
Page 31 of 38

5.1.6 Spurious Emission

RESULT:**Passed**

Date of testing	:	2010-07-29 to 2010-07-30
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
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	100 kPa

Refer to appendix 1 for details.

Prüfbericht - Nr.: 17017067 001
*Test Report No.*Seite 32 von 38
Page 32 of 38

5.1.7 Radiated emissions

RESULT:**Passed**

Date of testing	:	2010-07-29 to 2010-07-30
Test standard	:	FCC Part 15.209 RSS-210 Clause 2.6
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	30 – 1000MHz
Limits	:	FCC Part 15.209(a) RSS-210 Table 2
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage	:	DC 5V (via AC/DC Adaptor)
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 001
Test Report No.

Seite 33 von 38
Page 33 of 38

5.1.8 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 5V (via AC/DC Adaptor)
Operation Mode	:	A&C
Earthing	:	Not Connected
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	100 kPa

Refer to appendix 1 for details.

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 34 von 38
Page 34 of 38

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 30.55mW (14.85dBm). 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, 'at or above 1.5GHz and the maximum e.i.r.p. of the device is equal to or less than 5W', therefore the apparatus is exempt from routine evaluation.

Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 35 von 38
Page 35 of 38

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



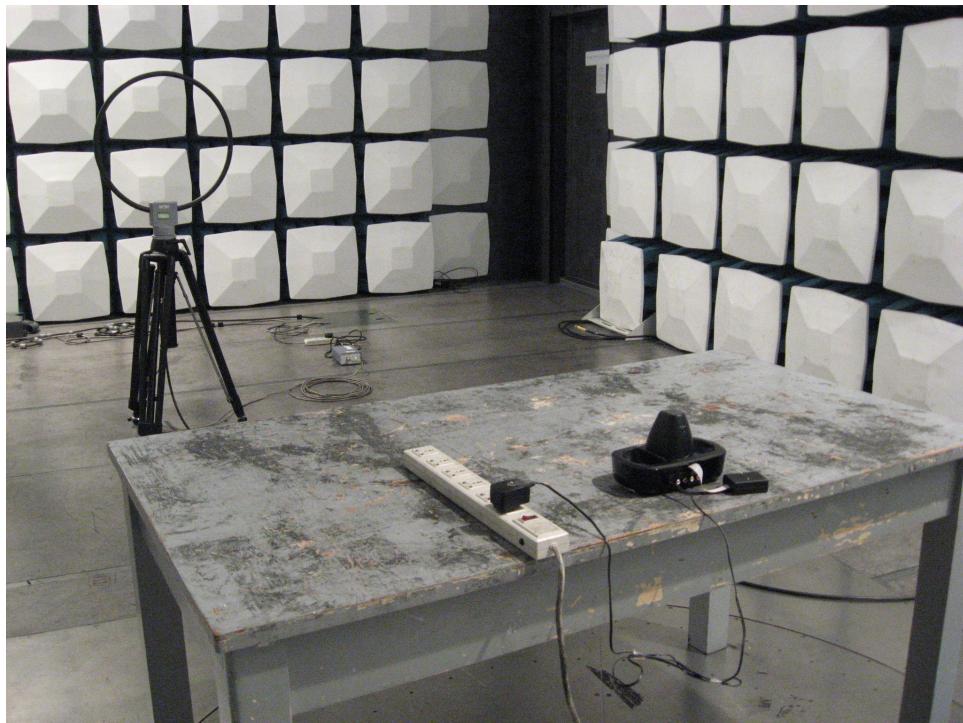
Photograph 2: Set-up for Radiated Emissions



Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 36 von 38
Page 36 of 38

Photograph 3: Set-up for Spurious Emissions 9kHz – 30MHz



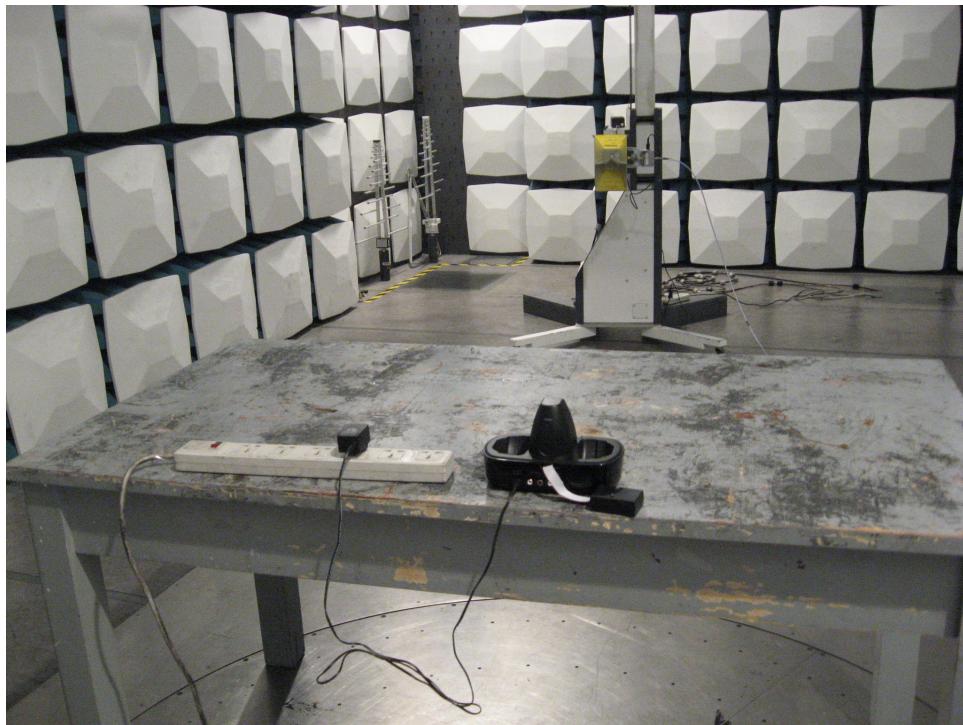
Photograph 4: Set-up for Spurious Emissions 30MHz – 1GHz



Prüfbericht - Nr.: 17017067 001
Test Report No.

Seite 37 von 38
Page 37 of 38

Photograph 5: Set-up for Spurious Emissions 1GHz – 18GHz



Photograph 6: Set-up for Spurious Emissions 18GHz – 26.5GHz



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	8
Table 6: Test Auxiliary Equipments	9
Table 7: Test result of Peak Output Power, Antenna 0	13
Table 8: Test result of Peak Output Power, Antenna 1	13
Table 9: Test result of 6dB Bandwidth.....	17
Table 10: Test result of 99% Bandwidth	17
Table 11: Test result of power spectral density	27

9. List of Photographs

Photograph 1: Set-up for Conducted Emissions	35
Photograph 2: Set-up for Radiated Emissions	35
Photograph 3: Set-up for Spurious Emissions 9kHz – 30MHz	36
Photograph 4: Set-up for Spurious Emissions 30MHz – 1GHz	36
Photograph 5: Set-up for Spurious Emissions 1GHz – 18GHz	37
Photograph 6: Set-up for Spurious Emissions 18GHz – 26.5GHz	37