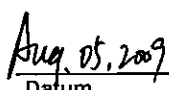

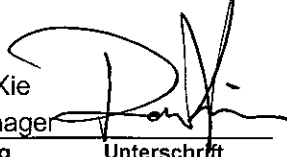


Prüfbericht - Nr.:		16017778 001		Seite 1 von 28 Page 1 of 28	
<i>Test Report No.:</i>					
Auftraggeber:		NeuroSky, Inc.			
<i>Client:</i>		125 South Market Street, #900, San Jose, CA 95113, USA			
Gegenstand der Prüfung: MindSet					
<i>Test item:</i>					
Bezeichnung:		MS001	FCC ID:		XG9MS1
<i>Identification:</i>			<i>FCC ID</i>		
Wareneingangs-Nr.:		173045284	Eingangsdatum:		June 3, 2009
<i>Receipt No.:</i>			<i>Date of receipt:</i>		
Prüfört:		TÜV Rheinland (Guangdong) Ltd. EMC Laboratory			Listed test laboratory according to FCC rules section 2.948 for measuring devices under Parts 15
<i>Testing location:</i>		Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650,			
		P. R. China			
Prüfgrundlage:		ANSI C63.4: 2003			
<i>Test specification:</i>		FCC Part 15: July 10, 2008 Subpart C section 15.209 and 15.247			
Prüfergebnis:		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).			
<i>Test Result:</i>		<i>The test item passed the test specification(s).</i>			
Prüflaboratorium:		TÜV Rheinland (Guangdong) Ltd.			
<i>Testing Laboratory:</i>					
geprüft/ tested by:		kontrolliert/ reviewed by:			
	Ken Kuang		Liangdong Xie		
<i>Aug. 05, 2009</i>	Project Engineer	<i>Aug. 05, 2009</i>	Project Manager		
<i>Datum</i>	<i>Name/Stellung</i>	<i>Unterschrift</i>	<i>Datum</i>	<i>Name/Stellung</i>	<i>Unterschrift</i>
<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>
Sonstiges/ Other Aspects:					
Abkürzungen:		Abbreviations:			
P(ass) = entspricht Prüfgrundlage		P(ass) = passed			
F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed			
N/A = nicht anwendbar		N/A = not applicable			
N/T = nicht getestet		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.					
<i>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.</i>					

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 2 von 28
Page 2 of 28

Test Summary

FCC Rules		Test items	Result
Paragraph	Released Date		
Part 15 Per Section 15.209(a)	July 10, 2008	Radiated Spurious Emission	Pass
Part 15 Per Section 15.203	July 10, 2008	Antenna requirement	Pass
Part 15 Per Section 15.247(b)(1)	July 10, 2008	Maximum Peak Output power	Pass
Part 15 Per Section 15.247(a)(1)	July 10, 2008	20dB Bandwidth	Pass
Part 15 Per Section 15.247(a)(1)	July 10, 2008	Hopping Channel Carrier Frequency Separation	Pass
Part 15 Per Section 15.247(a)(1)(iii)	July 10, 2008	Number of Hopping Frequency Used	Pass
Part 15 Per Section 15.247(a)(1)(iii)	July 10, 2008	Time of Occupancy (Dwell Time)	Pass
Part 15 Per Section 15.247(d)	July 10, 2008	Out-Of-Band Emission measurement	Pass

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 3 von 28
Page 3 of 28

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY	7
2.6	LOCATION OF ORIGINAL DATA	7
2.7	STATUS OF FACILITY USED FOR TESTING	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	9
3.4	SUBMITTED DOCUMENTS	9
4	TEST SET-UP AND OPERATION MODE	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION	10
4.2	TEST OPERATION AND TEST SOFTWARE	10
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	10
4.5	TEST SET-UP	11
5	TEST RESULTS EMISSION	13
5.1	RADIATED SPURIOUS EMISSION	13
5.2	ANTENNA REQUIREMENT	16
5.3	MAXIMUM PEAK OUTPUT POWER	17
5.4	20DB BANDWIDTH	18
5.5	HOPPING CHANNEL CARRIER FREQUENCY SEPARATION	19
5.6	NUMBER OF HOPPING FREQUENCY USED	21
5.7	TIME OF OCCUPANCY (DWELL TIME)	22
5.8	OUT-OF-BAND EMISSION	24
6	PHOTOGRAPHS OF THE TEST SET-UP	26

7	LIST OF TABLES	28
8	LIST OF PHOTOGRAPHS	28

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 5 von 28
Page 5 of 28

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

Guangzhou Auto Market, Yuan Gang Section of Guangshan Road
Guangzhou 510650

P. R. China

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 6 von 28
Page 6 of 28

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Type	Manufacturer	S/N	Calibrated until	Calibrated Interval
EMI Test Receiver	ESCI-3	Rohde & Schwarz	100216	26.Nov.2009	1 year
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	27.Aug.2009	1 year
Trilog-Broadband Antenna	VULB9168	SCHWARZBECK MESS-ELEKTRONIK	209	07.Nov.2009	2 years
Double-Ridged Waveguide Horn Antenna	HF906	Rohde & Schwarz	100407	26.Jun.2011	2 years
Pre-amplifier	AFS42- 00101800- 25-S-42	MITEQ	1101599	31.Jul.2009	2 years
Band Reject Filter	BRM50702	Micro-Tronics	023	14.Mar.2010	2 years
Standard Gain Horn Antenna	3160-09	EMCO	21642	N/A	N/A
Standard Gain Horn Antenna	3160-09	EMCO	21645	N/A	N/A
Pre-amplifier	AFS33- 18002650- 30-8P-44	MITEQ	1108282	31.Jul.2009	2 years
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	10.Feb.2010	1 year
Loop antenna	HFH2-Z2	Rohde & Schwarz	100111	26.Nov.2009	2 years

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.

Prüfbericht - Nr.:

16017778 001

Seite 7 von 28

Test Report No.:

Page 7 of 28

2.5 Measurement Uncertainty

Uncertainty for conducted emissions measurements is $\pm 2.68\text{dB}$.

Uncertainty for radiated emissions measurements is $\pm 4.42\text{dB}$ (9kHz-30MHz), $\pm 4.94\text{dB}$ (30M-1GHz) and $\pm 4.88\text{dB}$ (> 1GHz)

The reported expanded uncertainty is based on a standard uncertainty multiply by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

2.6 Location of original data

The original copies of 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 (Guangdong) file for certification follow-up purposes.

2.7 Status of facility used for testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory; Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 833845

Prüfbericht - Nr.:

16017778 001

Seite 8 von 28

Test Report No.:

Page 8 of 28

3 General Product Information

Brief description of the test sample:

The EUT is a Bluetooth Mindset powered by internal DC 3.7V battery. The battery can be recharged via mini USB port. EUT can not work when battery is being recharged.

Bluetooth function is provided which enable this device to be connected to other Bluetooth device that support profile A2DP, AVRCP, HFP and HSP. Bluetooth EDR function is not supported in the EUT.

For details, refer to technical document and the user manual.

3.1 Product Function and Intended Use

Refer to the Technical Documentation and user manual.

3.2 Ratings and System Details

Frequency range	:	2402.0MHz – 2480.0MHz (unlicensed ISM band)
Number of employed channels	:	79 channels
Total Number of channels	:	79 channels
Modulation Type	:	Frequency Hopping Spread Spectrum
Type of antenna	:	Integral antenna
Power supply of Bluetooth headset	:	Operating: DC 3.7V by internal battery Charging: DC 5V by mini USB port
Ports	:	mini USB port (no data communication)
Protection Class	:	III

Refer to the Technical Documentation for further information

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 9 von 28
Page 9 of 28

3.3 Independent Operation Modes

Bluetooth: RF Transmitting and receiving

For further information refer to User Manual

3.4 Submitted Documents

Block Diagram
Schematics
Operation Description
Components List
FCC label and location
User Manual
Internal Photos
External Photos
Application form

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 10 von 28
Page 10 of 28

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

The products have been tested together with the following device:

Device	Manufacture	Model	Serial no./ Version
Laptop notebook	IBM R40e	2684	99-CYY55
Bluetooth test Software	CSR	BlueTest	1.24

4.4 Countermeasures to achieve EMC Compliance

In order to achieve compliance a 47uf capacitor was added across USB charger.

4.5 Test set-up

Diagram 1 of Configuration for Testing Radiated Emission below 30MHz

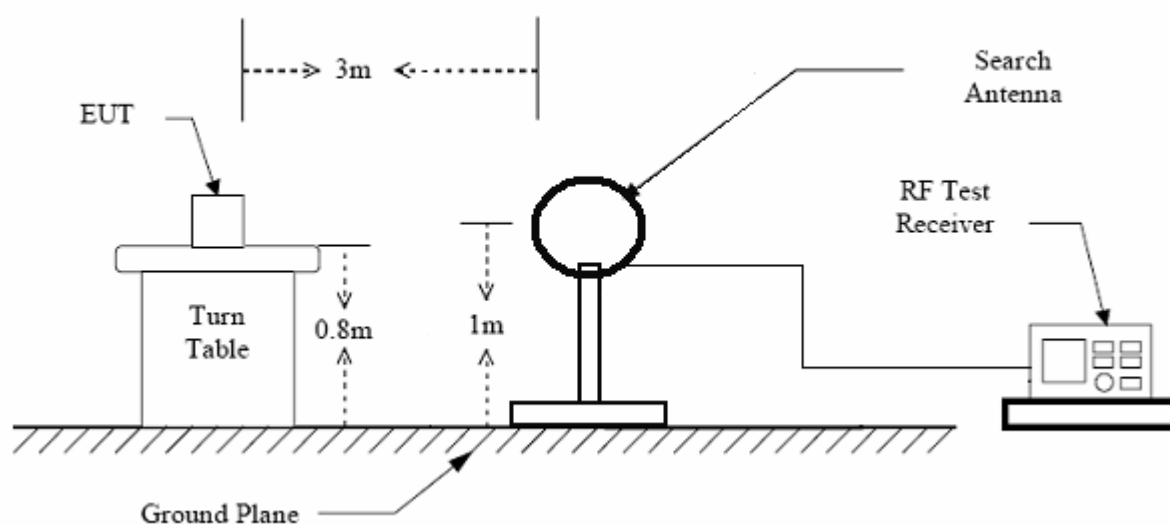
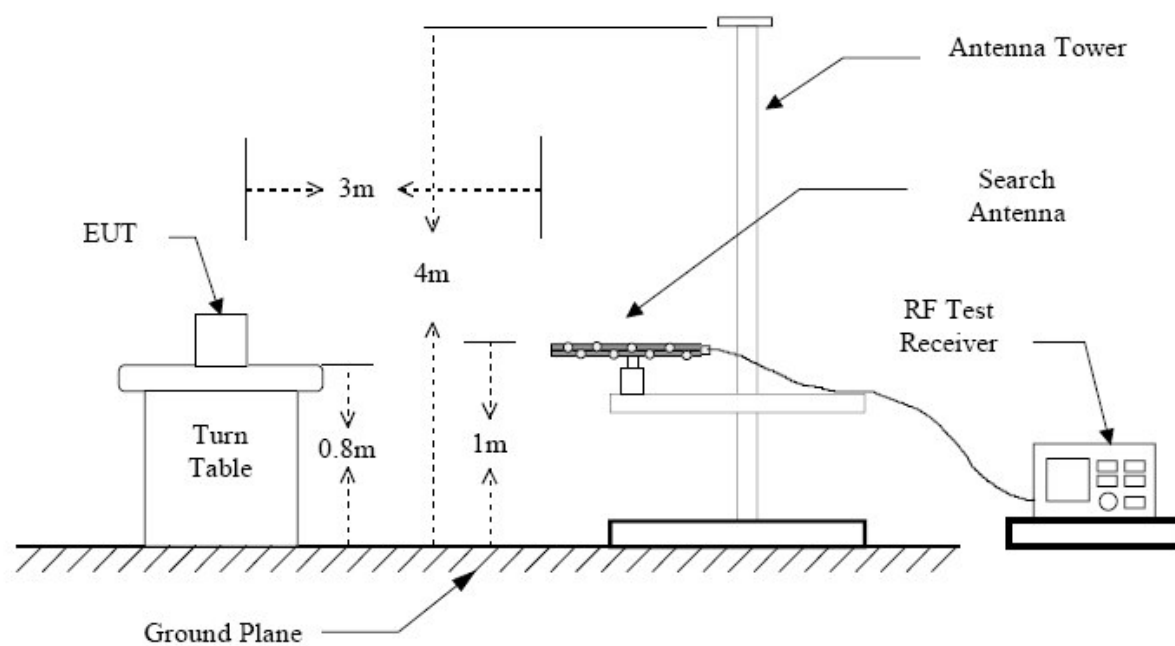


Diagram 2 of Configuration for Testing Radiated Emission from 30MHz to 1 GHz



Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 12 von 28
Page 12 of 28

Diagram 3 of Configuration for Testing Radiated Emission above 1 GHz

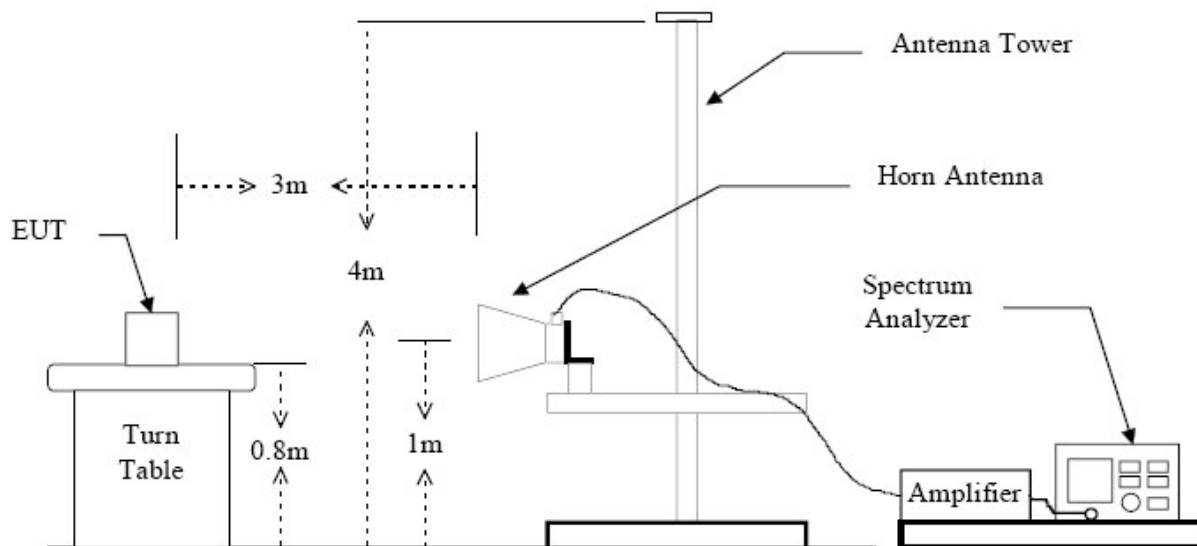
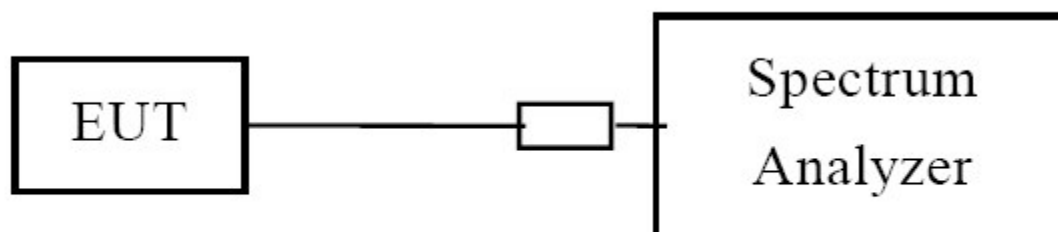


Diagram 4 of Configuration for Testing other test items



Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 13 von 28
Page 13 of 28

5 Test Results EMISSION

5.1 Radiated Spurious Emission

RESULT:

Pass

Date of testing	:	Jul. 22, 2009 to Aug. 05, 2009
Test specification	:	FCC Part 15 Per Section 15.209(a)
Limits	:	FCC Part 15 Per Section 15.209(a)
Test procedure	:	Procedure specified in ANSI C63.4
Deviations from Standard Test procedures	:	None
Kind of test site	:	3m Semi-anechoic chamber
Operation mode	:	Bluetooth RF transmitting at fix channel with max power (High, Low, Mid)
Power supply	:	DC 3.7V (internal battery)
Temperature	:	23°C
Humidity	:	55%

Test procedure:

1. The EUT was placed on the top of a rotatable table 0.8 meters above the ground with 3-orthogonal direction and be kept close enough to the receiving antenna. The table was rotated 360 degrees to determine the suspected emission frequency and the position of the worst radiation case with both horizontal and vertical antenna polarization.
2. The EUT was then set 3 meters away from the receiving antenna, which was mounted on a variable-height antenna tower.
3. For each suspected emission frequency recorded in step 1, the EUT was arranged to its worst case and:
for tests below 30MHz the loop antenna is positioned with its plane vertical and the center of it is 1m above the ground. During the tests it is rotated about its vertical axis for maximum response at each azimuth about the EUT;
for tests above 30MHz the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to read the maximum emission.

Note:

While testing, the EUT is connected with a serial port bridge board for test mode setup. The length of the communication cable between the EUT and the bridge board, which including Tx, Rx, GND serial pins, is minimized to reduce the unwanted influence to test result. The bridge board can be connected to a host computer with standard DB9 com port cable for running of the test setup software. After setup successfully, the EUT can keep the test mode with the host computer and the cable removed.

Prüfbericht - Nr.:

16017778 001

Seite 14 von 28

Test Report No.:

Page 14 of 28

Table 2: Radiated Emission (Bluetooth: Transmitting at channel low)

Frequency	QP	AV	PK	Polarity	Limit		
					QP	AV	PK
[MHz]	[dBμV/m]			(H/V)	[dBμV/m]		
192.00	39.2	N/A	N/A	H	43.5	N/A	N/A
200.00	39.3	N/A	N/A	H	43.5	N/A	N/A
208.00	38.7	N/A	N/A	H	43.5	N/A	N/A
288.00	37.2	N/A	N/A	H	46.0	N/A	N/A
1602.00	N/A	40.7	43.8	H	N/A	54.0	74.0
4804.00	N/A	43.3	56.8	H	N/A	54.0	74.0
7206.00	N/A	31.0	44.2	H	N/A	54.0	74.0
14412.00	N/A	43.6	56.9	H	N/A	54.0	74.0
192.00	29.8	N/A	N/A	V	43.5	N/A	N/A
1602.00	N/A	41.6	44.5	V	N/A	54.0	74.0
3204.00	N/A	38.9	45.2	V	N/A	54.0	74.0
4804.00	N/A	47.4	60.8	V	N/A	54.0	74.0
14412.00	N/A	43.7	56.6	V	N/A	54.0	74.0
*)---							

Table 3: Radiated Emission (Bluetooth: Transmitting at channel mid)

Frequency	QP	AV	PK	Polarity	Limit		
					QP	AV	PK
[MHz]	[dBμV/m]			(H/V)	[dBμV/m]		
176.00	35.7	N/A	N/A	H	43.5	N/A	N/A
192.00	39.3	N/A	N/A	H	43.5	N/A	N/A
200.00	39.7	N/A	N/A	H	43.5	N/A	N/A
288.00	41.3	N/A	N/A	H	46.0	N/A	N/A
1628.00	N/A	40.9	43.8	H	N/A	54.0	74.0
4882.00	N/A	44.3	58.0	H	N/A	54.0	74.0
7323.00	N/A	32.4	45.4	H	N/A	54.0	74.0
14646.00	N/A	44.1	57.4	H	N/A	54.0	74.0
192.00	32.7	N/A	N/A	V	43.5	N/A	N/A
1628.00	N/A	40.9	43.5	V	N/A	54.0	74.0
4882.00	N/A	45.7	59.3	V	N/A	54.0	74.0
7323.00	N/A	32.5	45.5	V	N/A	54.0	74.0
14646.00	N/A	44.1	58.2	V	N/A	54.0	74.0
*)---							

Prüfbericht - Nr.:

16017778 001

Seite 15 von 28

Test Report No.:

Page 15 of 28

Table 4: Radiated Emission (Bluetooth: Transmitting at channel high)

Frequency	QP	AV	PK	Polarity	Limit		
					QP	AV	PK
[MHz]	[dBμV/m]			(H/V)	[dBμV/m]		
192.00	41.3	N/A	N/A	H	43.5	N/A	N/A
200.00	40.4	N/A	N/A	H	43.5	N/A	N/A
208.00	37.4	N/A	N/A	H	43.5	N/A	N/A
288.00	40.2	N/A	N/A	H	46.0	N/A	N/A
1654.00	N/A	44.0	46.1	H	N/A	54	74
4960.00	N/A	42.1	56.9	H	N/A	54	74
7440.00	N/A	33.3	46.6	H	N/A	54	74
14880.00	N/A	43.9	57.6	H	N/A	54	74
192.00	33.9	N/A	N/A	V	43.5	N/A	N/A
1654.00	N/A	41.7	44.4	V	N/A	54	74
3308.00	N/A	39.3	45.6	V	N/A	54	74
4960.00	N/A	42.5	57.2	V	N/A	54	74
14880.00	N/A	44.0	57.1	V	N/A	54	74
*)---							

*) Note:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz at frequency below 1GHz.

The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz at frequency above 1GHz.

Measurement is made from 15MHz to 26 GHz. Disturbances other than those mentioned above are small or not detectable.

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 16 von 28
Page 16 of 28

5.2 Antenna requirement

RESULT:

Pass

Date of testing : ---

Test specification : FCC Part 15 Per Section 15.203
FCC Part 15 Per Section 15.247(b)

For intentional device, according to 15.203, and intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to 15.247(b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by amount in dB than the directional gain of the antenna exceeds of 6dBi.

As the BT antenna is permanently printed on RF Board, there is no consideration of replacement.

And the max gain of the antenna is 2.5dBi.

5.3 Maximum Peak Output Power

RESULT:

Pass

Date of testing : Jun. 11, 2009
 Test specification : FCC Part 15 Per Section 15.247(b)(1)
 Limits : FCC Part 15 Per Section 15.247(b)(1)

For frequency hopping systems operating in the band 2400-2483.5 MHz employing at least 75 hopping channels, the maximum peak conducted output power shall not exceed 1 W; for all other frequency hopping systems in the band, the maximum peak conducted output power shall not exceed 0.125 W.

Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	Bluetooth continuously transmitting on the measured channel.
Power supply	:	DC 3.7V (internal battery)
Temperature	:	21°C
Humidity	:	57%

Table 5: Peak Conducted Power

Channel	Frequency (MHz)	Power Reading(dBm)	Cable Loss (dB)	Output Power		Limit (mW) *
				(dBm)	(mW)	
Low	2402.0	0.75	0.40	1.15	1.30	1000
Mid	2441.0	0.94	0.40	1.34	1.36	1000
High	2480.0	0.33	0.40	0.73	1.18	1000

*Note: Refer to the test result of “Number of Hopping Channel Used” for the non-overlap channel number.

Prüfbericht - Nr.:

16017778 001

Seite 18 von 28

Test Report No.:

Page 18 of 28

5.4 20dB Bandwidth

RESULT:

Pass

Date of testing : Jun. 11, 2009
Test specification : FCC Part 15 Per Section 15.247(a)(1)
Limits : FCC Part 15 Per Section 15.247(b)(1)

Frequency hopping systems operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

Deviations from Standard Test

procedures : None
Test procedure : Procedure specified in ANSI C63.4
Operation mode : Bluetooth continuously transmitting on the measured channel.
Kind of test site : Shielded room
Power supply : DC 3.7V (internal battery)
Temperature : 21°C
Humidity : 57%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency= measured channel, RBW=30kHz, VBW=100kHz.
4. Mark the peak power frequency point and the -20dB upper and lower frequency points.
5. Read the frequency delta value between the -20dB upper and lower frequency points.
6. Repeat step 2 to 5 until all the channels required are finished.

Table 6: 20dB Bandwidth

Channel	Frequency (GHz)	Test Result (kHz)
Low	2402.0	924
Mid	2441.0	836
High	2480.0	848

Please refer to Appendix 1 for measurement data.

Prüfbericht - Nr.:

16017778 001

Seite 19 von 28

Test Report No.:

Page 19 of 28

5.5 Hopping Channel Carrier Frequency Separation

RESULT:

Pass

Date of testing	:	Jun. 11, 2009
Test specification	:	FCC Part 15 Per Section 15.247(a)(1)
Limits	:	FCC Part 15 Per Section 15.247(a)(1)

Frequency hopping systems operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

Deviations from Standard Test procedures

Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	Bluetooth transmitting with hopping at the full channel set
Power supply	:	DC 3.7V (internal battery)
Temperature	:	21°C
Humidity	:	57%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low loss cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 30 kHz, VBW = 100 kHz, Frequency Span = wide enough to cover the adjacent channel.
4. Mark the peak power frequency point of the measured channel and its adjacent channel(s)
5. Read the frequency delta value between the measured channel and its adjacent channel(s)
6. Repeat step 3 to 5 until all the channels measured are finished.

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 20 von 28
Page 20 of 28

Table 7: Hopping Channel Carrier Frequency Separation

Channel	Adjacent Hopping channel separation (kHz)	Limit
Low	1002	At least 25kHz or tow-thirds of the 20dB bandwidth of the hopping channel, whichever is greater. Note: refer to table 6 for the value of 20dB bandwidth
Mid	996	
High	996	

Please refer to Appendix 1 for measurement data.

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 21 von 28
Page 21 of 28

5.6 Number of Hopping Frequency Used

RESULT:

Pass

Date of testing : Jun. 11, 2009
Test specification : FCC Part 15 Per Section 15.247(a)(1)(iii)
Limits : FCC Part 15 Per Section 15.247(a)(1)(iii)

Frequency hopping system in the 2400-2483.5 MHz band shall use at least 15 non-overlapping channels

Deviations from Standard Test procedures

: None
Test procedure : Procedure specified in ANSI C63.4
Kind of test site : Shielded room
Operation mode : Bluetooth transmitting with hopping at the full channel set
Power supply : DC 3.7V (internal battery)
Temperature : 21°C
Humidity : 57%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: RBW = 100 kHz, VBW \geq RBW, Frequency Span = wide enough to cover the channels to be plotted.
4. Set the spectrum analyzer to Max-hold mode and plot the result(s) with record of all hopping channel.

Table 8: Number of hopping frequency

Number of hopping frequency:	79
Limit:	At least 15 non-overlapping channels

Please refer to Appendix 1 for measurement data.

Prüfbericht - Nr.:

16017778 001

Seite 22 von 28

Test Report No.:

Page 22 of 28

5.7 Time of Occupancy (Dwell Time)

RESULT:

Pass

Date of testing	:	Jun. 11, 2009
Test specification	:	FCC Part 15 Per Section 15.247(a)(1)(iii)
Limits	:	FCC Part 15 Per Section 15.247(a)(1)(iii)

For frequency hopping system operating in the 2400-2483.5MHz band, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Deviations from Standard Test procedures

Deviations from Standard Test procedures	:	None
Test Procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	Bluetooth transmitting with hopping at the full channel set (DH5 mode)
Power supply	:	DC 3.7V (internal battery)
Temperature	:	21°C
Humidity	:	57%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low loss cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 1MHz, VBW ≥ RBW, Frequency Span = 0 Hz.
4. Set sweep time properly to capture the entire dwell time per hopping channel.
5. Set detector type to Peak and trace mode to Max Hold and make the measurement.
6. Repeat step 3-5 until all channels measured were complete.

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 23 von 28
Page 23 of 28

Table 9: Dwell Time (DH5 mode)

channel	Frequency (GHz)	Dwell time of one signal Burst (ms)	Total Dwell Time (ms)	Limit (ms)
Low	2.402	2.940	$(2.940 \times \mathbf{106.81}) = 314.02$	400
Mid	2.441	2.940	$(2.940 \times \mathbf{106.81}) = 314.02$	400
High	2.480	2.940	$(2.940 \times \mathbf{106.81}) = 314.02$	400

Note :

Period = 0.4 (seconds) x 79 (channels) = 31.6 seconds

For Bluetooth system, there are 1600 timeslots in one second. The DH5 mode operates on a 5-slot transmission and 1-slot receiving basis. Thus there are $1600 / (5+1) = 266.7$ transmission per second. In one period for each particular channel there are $(266.7/79) \times 31.6 = 106.81$ times of transmission.

Dwell Time in one period(ms) = Dwell time of one-slot transmission(ms) multiplexes **106.81**

Please refer to Appendix 1 for measurement data.

Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 24 von 28
Page 24 of 28

5.8 Out-of-Band Emission

RESULT:

Pass

Date of testing : Jun. 11, 2009
Test specification : FCC Part 15 Per Section 15.247(d)
Limits : FCC Part 15 Per Section 15.247(d)

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

In addition:

FCC Part 15 - radiated emission which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).

Deviations from Standard Test
procedures

: None
Test Procedure : Procedure specified in ANSI C63.4
Kind of test site : Shielded room
Operation mode : Bluetooth transmitting at the highest and lowest channel (band edge)
Power supply : DC 3.7V (internal battery)
Temperature : 21°C
Humidity : 57%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low loss cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: RBW = 100 kHz, VBW ≥ RBW.
4. Set proper frequency span respectively for out-of-band emission measurement of the band edge and the whole range (up to 10 times of the carrier frequency.)
5. Set the trace mode to Max Hold and mark the peak reading of any spurious emission recorded.

Prüfbericht - Nr.:

16017778 001

Seite 25 von 28

Test Report No.:

Page 25 of 28

Table 10: Out-Of-Band Emission measurement (conducted)

Emission (Carrier operating at Channel low, mid and high)	Attenuation	Limit (dB)
30MHz to 25GHz	All emission in this 100kHz bandwidth are attenuated more than 20dB from the carrier	$\Delta \geq 20$

Note: Refer to Appendix 1 for measurement data.

Table 11: Band Edges Emission in the Restricted Bands by Marker Delta Method

Frequency [MHz]	dBc [dB]	PK [dBμV/m]	AV [dBμV/m]	Polarity (H/V)	PK limit [dBμV/m]	AV limit [dBμV/m]
2483.8MHz	49.37	46.77	---	H	74	54

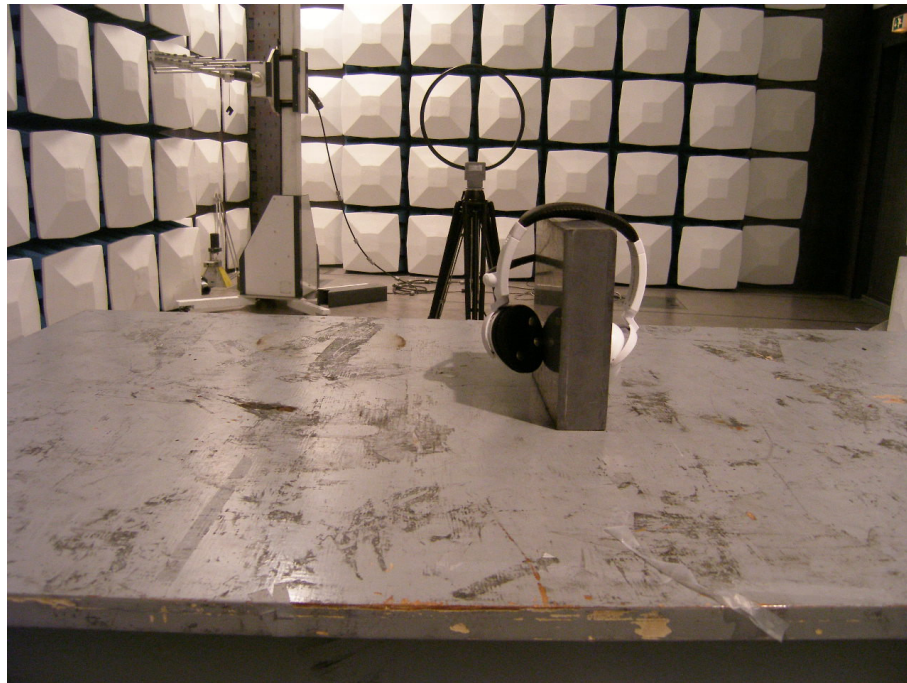
NOTE:

1. The Peak carrier field strength of the highest channel is 96.14dBuV/m
The above field strength levels were measured in vertical polarity which is the worst case.
2. The dBc value between the carrier maximum power and band edge emission power of the frequency listed in the table is calculated from the test record showed in Appendix 1.
3. Peak value of the low band edge emission listed in the table is calculated by the below formula:
PK value of band edge emission = Peak carrier field strength – dBc value in item2

*Note: Please refer to Appendix 1 for measurement data. Disturbances other than those mentioned above are small or not detectable. Please refer to the Appendix 1 for the noise floor of the band edge emission.

6 Photographs of the Test Set-Up

Photograph 1: Set-up for Radiation Measurement below 1GHz



Prüfbericht - Nr.:
Test Report No.:

16017778 001

Seite 27 von 28
Page 27 of 28

Photograph 2: Set-up for Radiation Measurement above 1GHz



7 List of Tables

Table 1: List of Test and Measurement Equipment6

Table 2: Radiated Emission (Transmitting at channel low) 14

Table 3: Radiated Emission (Transmitting at channel mid) 14

Table 4: Radiated Emission (Transmitting at channel high) 15

Table 5: Peak Conducted Power 17

Table 6: 20dB Bandwidth..... 18

Table 7: Hopping Channel Carrier Frequency Separation 20

Table 8: Number of hopping frequency 21

Table 9: Dwell Time (DH5 mode)..... 23

Table 10: Out-Of-Band Emission measurement (conducted) 25

Table 11: Band Edges Emission in the Restricted Bands by Marker Delta Method 25

8 List of Photographs

Photograph 1: Set-up for Radiation Measurement below 1GHz 26

Photograph 2: Set-up for Radiation Measurement above 1GHz 27

Prüfbericht - Nr.:

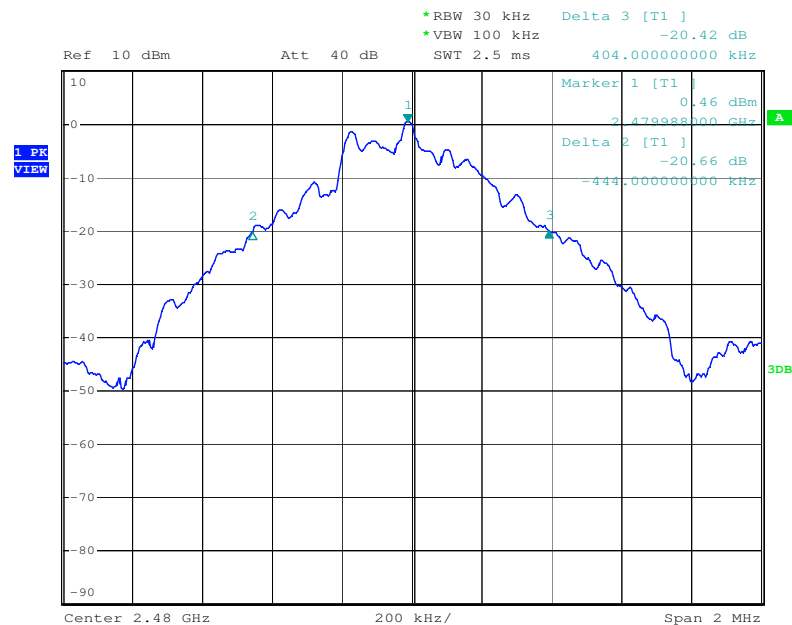
16017778 001

Test Report no.

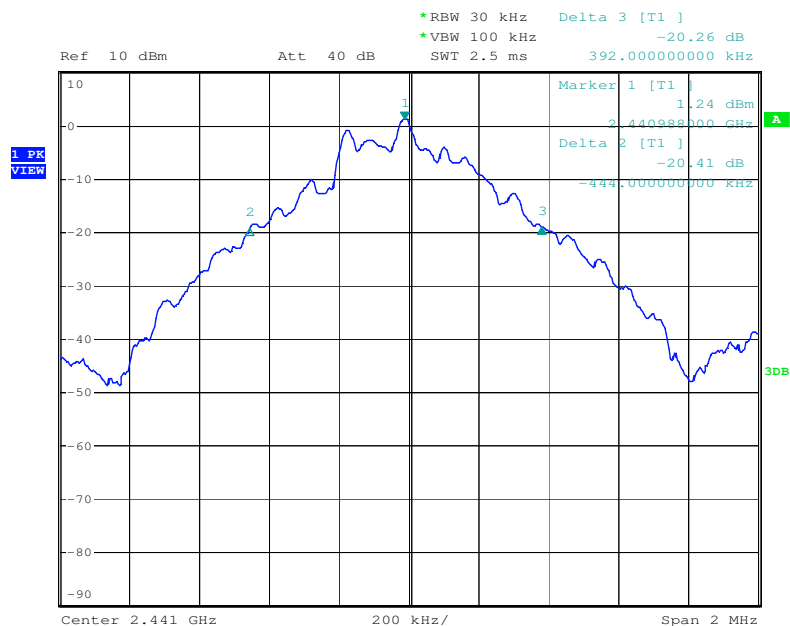
Seite 1 von 10

Page 1 of 10

20dB Bandwidth



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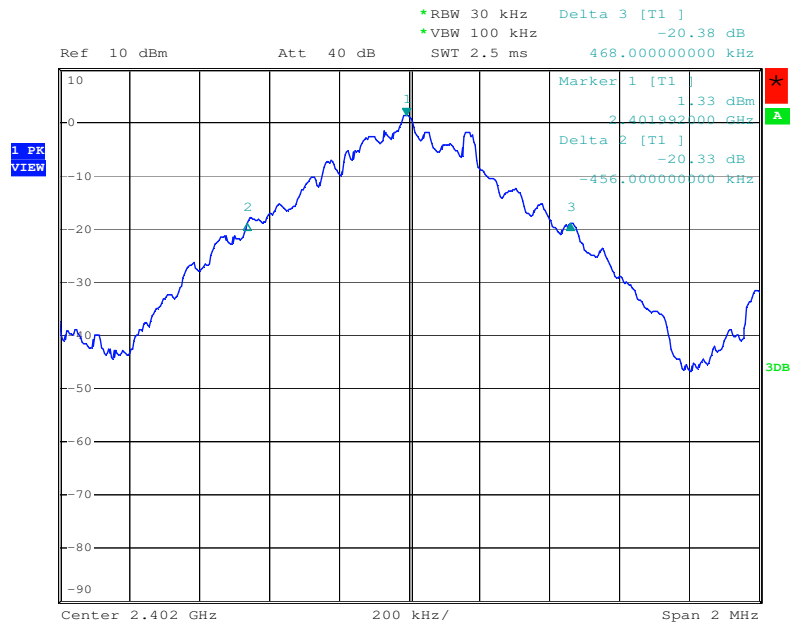


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Prüfbericht - Nr.:
Test Report no.

16017778 001

Seite 2 von 10
Page 2 of 10



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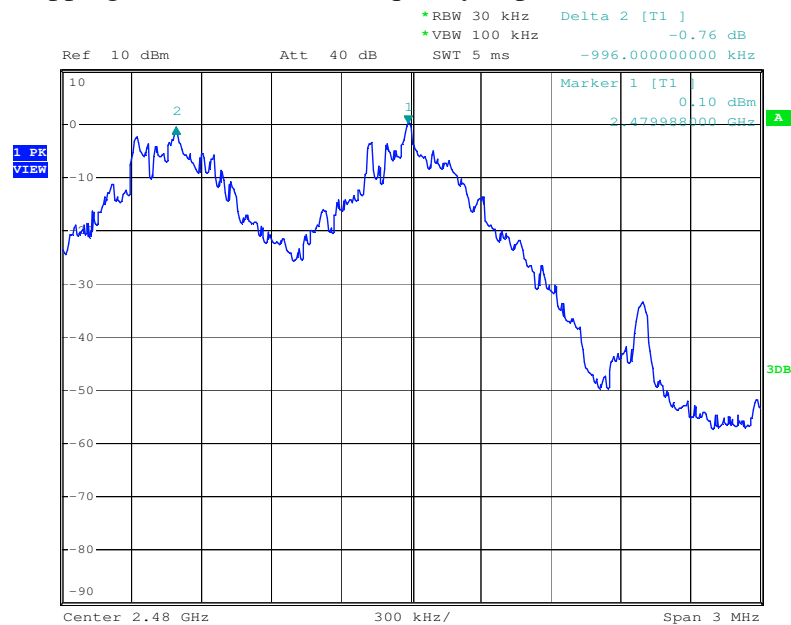
16017778 001

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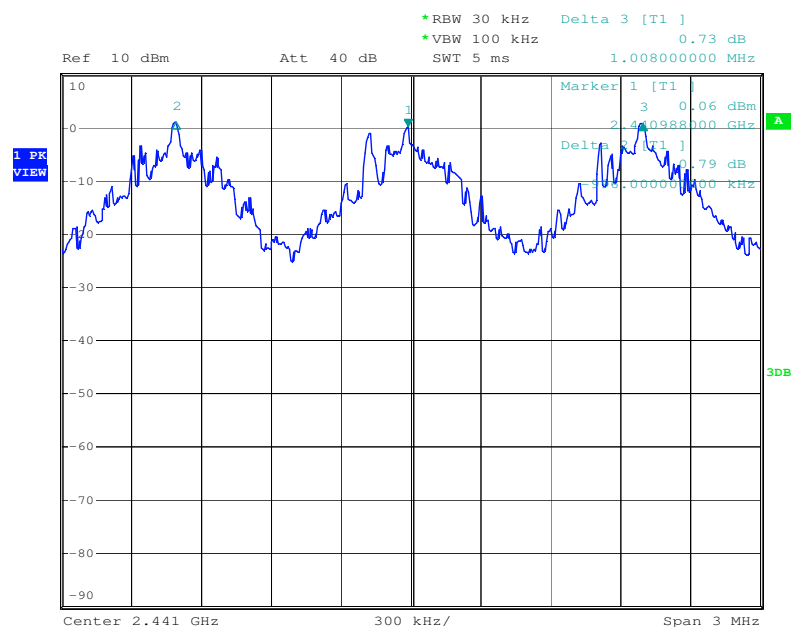
Seite 3 von 10

Page 3 of 10

Hopping Channel Carrier Frequency Separation



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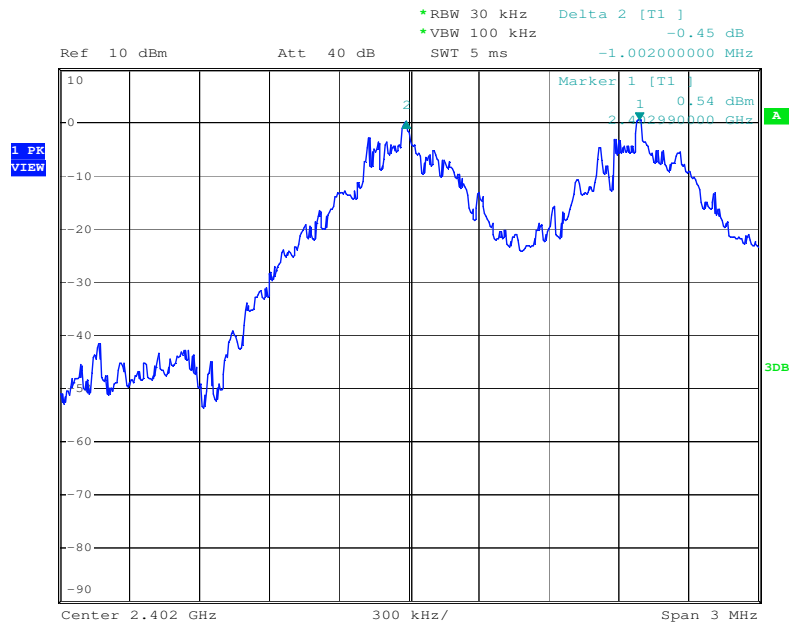
Prüfbericht - Nr.:

16017778 001

Test Report no.

Seite 4 von 10

Page 4 of 10



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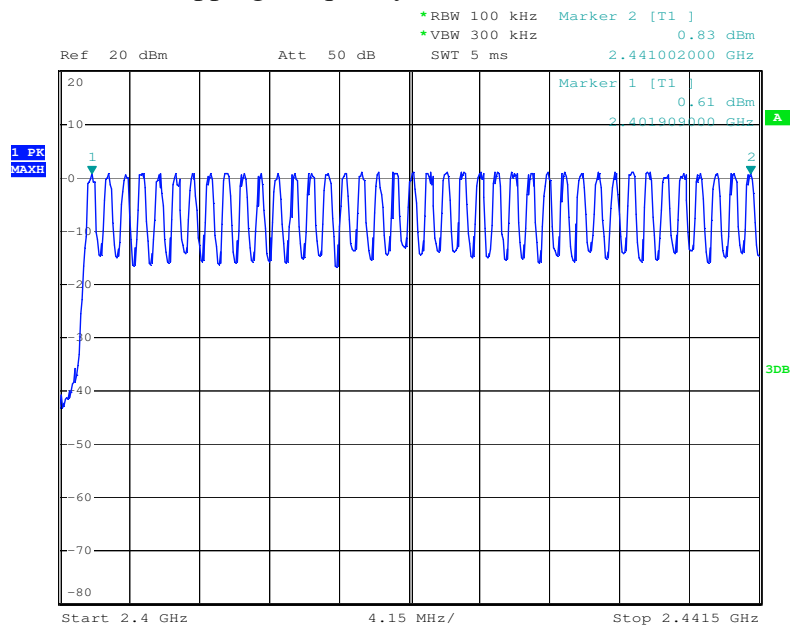
16017778 001

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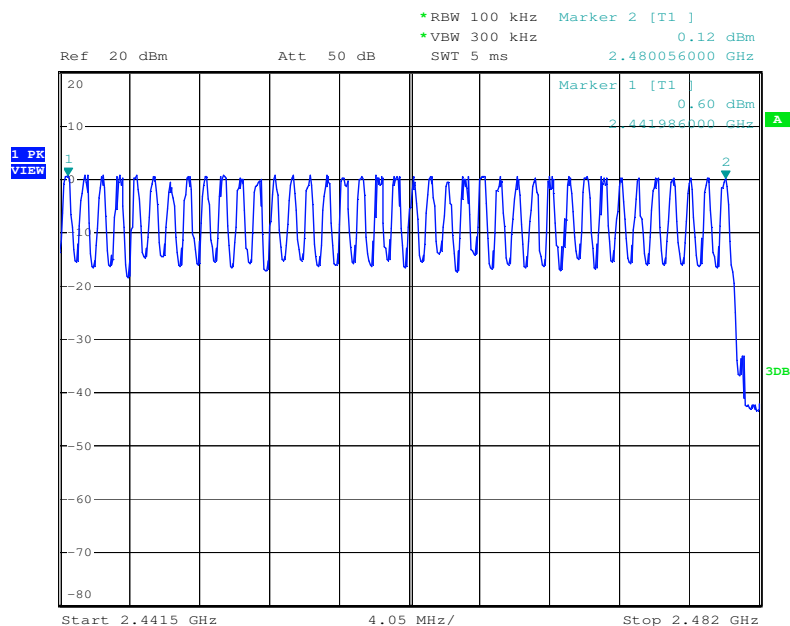
Seite 5 von 10

Page 5 of 10

Number of Hopping Frequency Used



Date: 11.JUN.2009 03:47:21



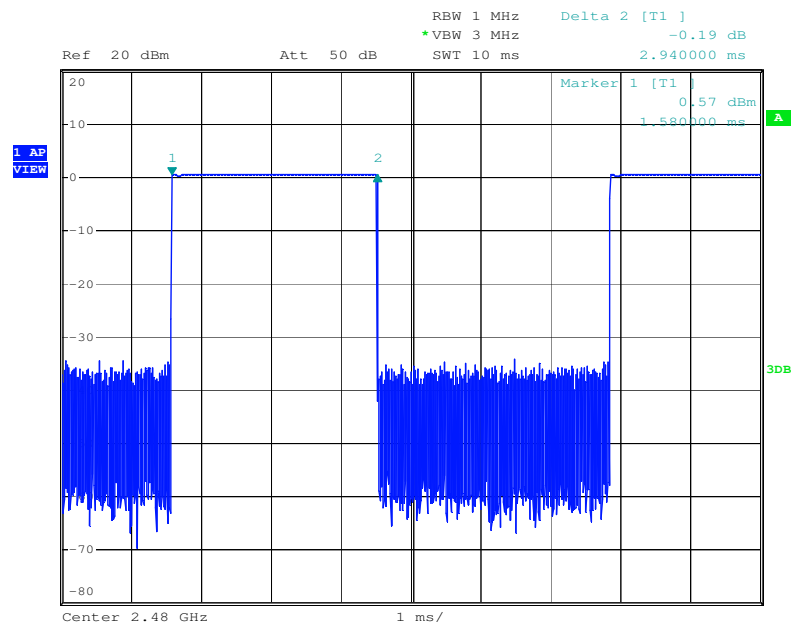
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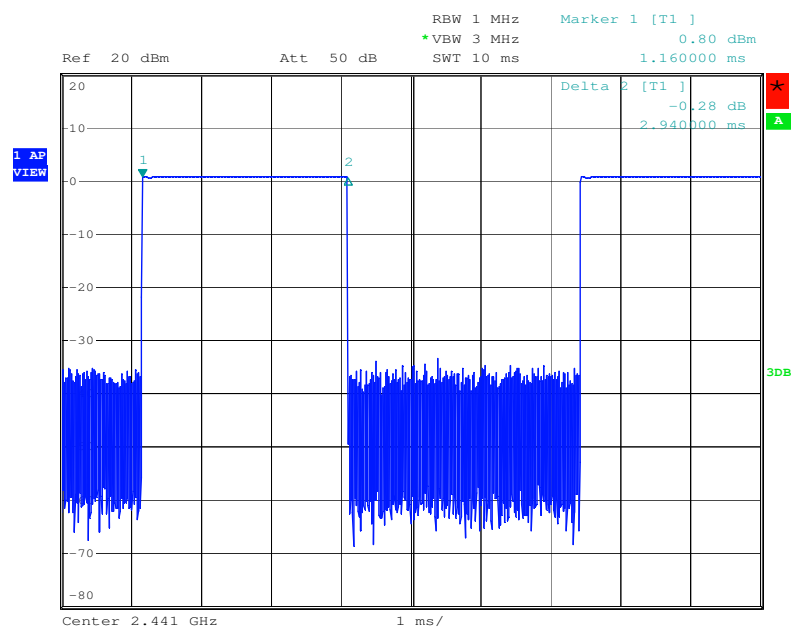
16017778 001

Seite 6 von 10
Page 6 of 10

Dwell Time



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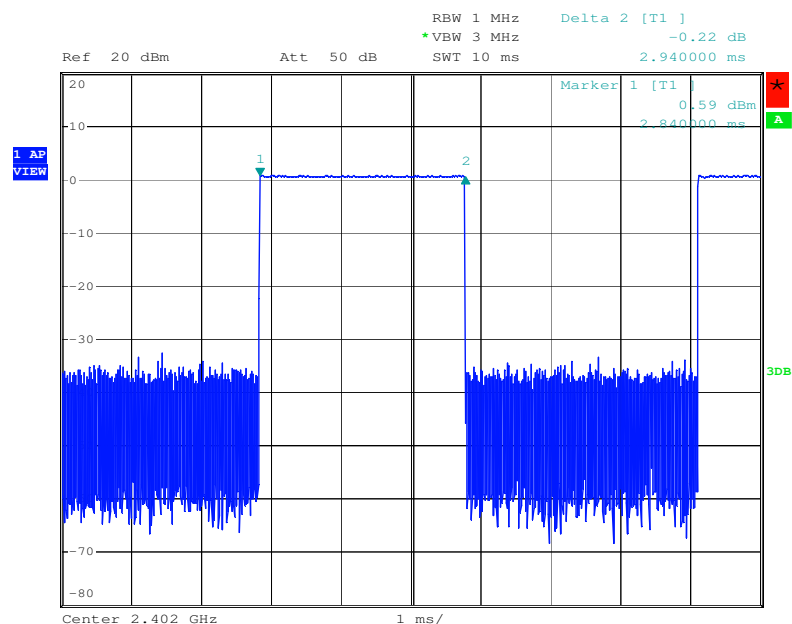


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Prüfbericht - Nr.:
Test Report no.

16017778 001

Seite 7 von 10
Page 7 of 10



Date: 11.JUN.2009 04:08:04

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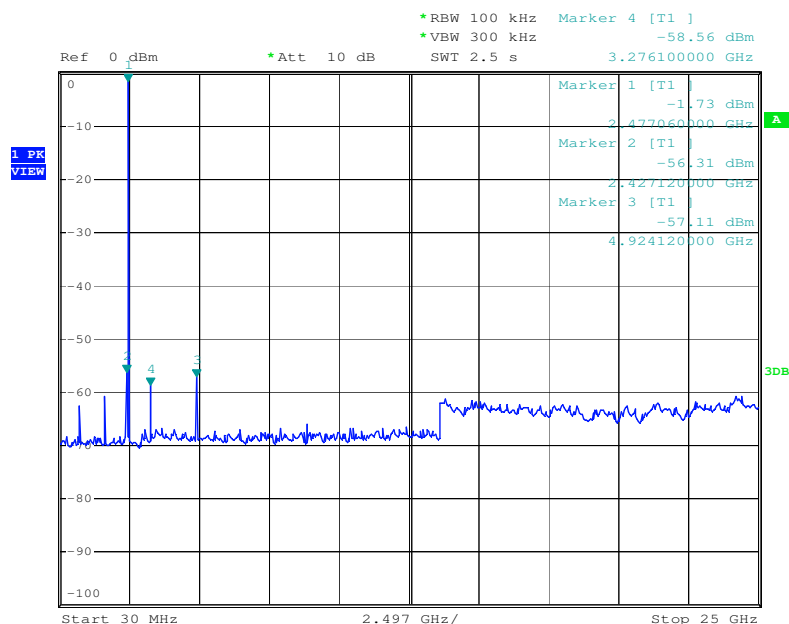
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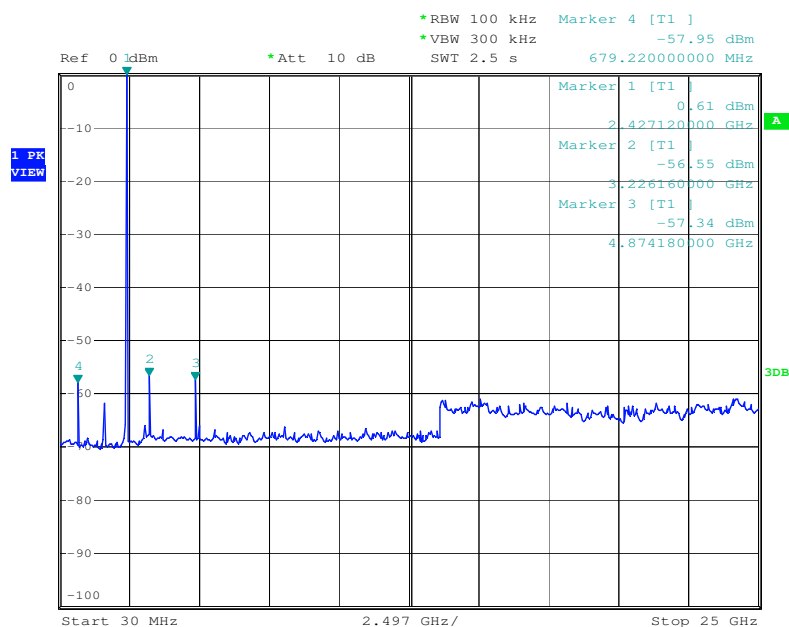
Seite 8 von 10

Page 8 of 10

Out-Of-Band Emission measurement



Date: 11.JUN.2009 04:33:49

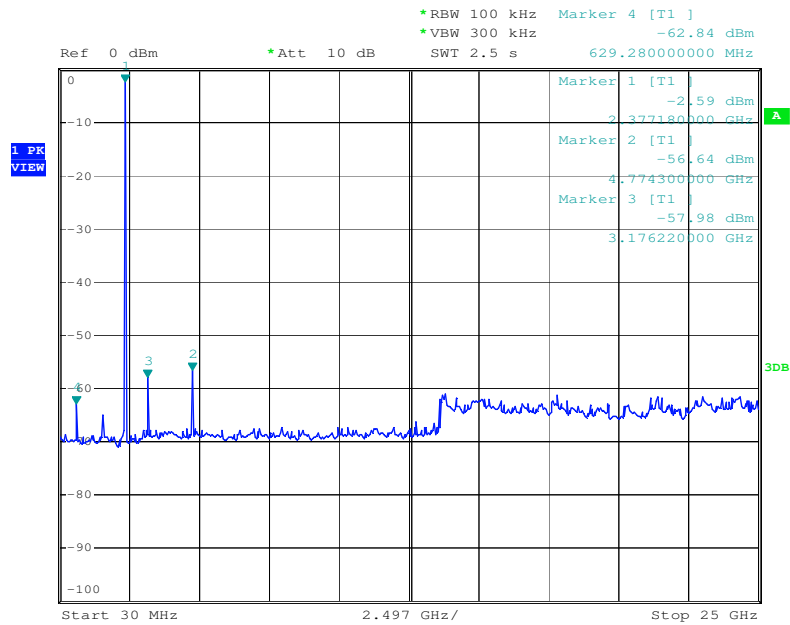


Date: 11.JUN.2009 04:37:32

Prüfbericht - Nr.:
Test Report no.

16017778 001

Seite 9 von 10
Page 9 of 10



Date: 11.JUN.2009 04:39:41

Prüfbericht - Nr.:

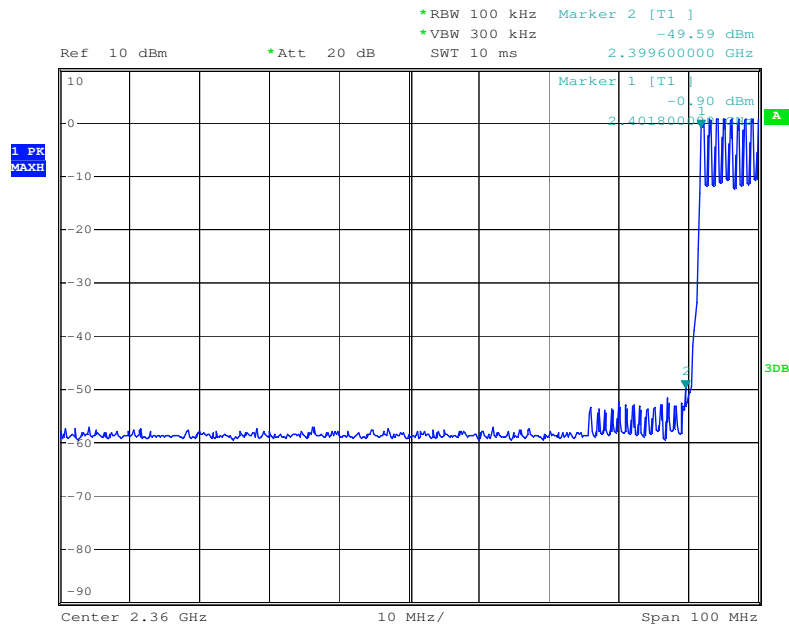
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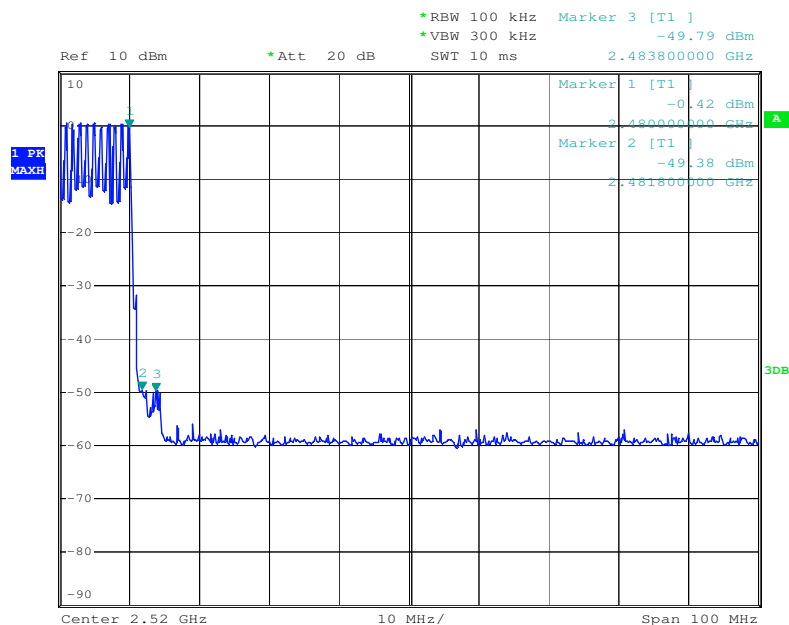
Seite 10 von 10

Page 10 of 10

Band Edges Emission in the Restricted Bands



Date: 11.JUN.2009 04:52:30



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