

Prüfbericht - Nr.: 17022077 001 <i>Test Report No.:</i>			Seite 1 von 50 <i>Page 1 of 50</i>		
Auftraggeber: <i>Client:</i>			Uni-Art Precise Products Ltd. 11-12/F. Yue Xiu Industrial Building, 87 Hung To Road, Kwun Tong, Kowloon, Hong Kong		
Gegenstand der Prüfung: Bluetooth Stereo Receiver <i>Test item:</i>					
Bezeichnung: <i>Identification:</i>		BH502		Serien-Nr.: n.a. <i>Serial No.:</i>	
Wareneingangs-Nr.: <i>Receipt No.:</i>		163082035		Eingangsdatum: 2011-08-09 <i>Date of receipt:</i>	
Prüfort: <i>Testing location:</i>		TÜV Rheinland (Guangdong) Ltd. 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: <i>Test specification:</i>		FCC CFR47 Part 15: Subpart C Section 15.247 FCC CFR47 Part 15: Subpart C Section 15.207 FCC CFR47 Part 15: Subpart C Section 15.209 FCC CFR47 Part 15: Subpart B Section 15.107 FCC CFR47 Part 15: Subpart B Section 15.109			
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>			
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland (Shenzhen) Co., Ltd.			
geprüft/ tested by:			kontrolliert/ reviewed by:		
					
2011-09-29 Winnie Hou/Project Manager			2011-10-10 Shawn Peng/Technical Certifier		
Datum	Name/Stellung	Unterschrift	Datum	Name/Stellung	Unterschrift
<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>
Sonstiges/ Other Aspects:					
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet			Abbreviations: P(ass) = passed F(ail) = 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. <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>					

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TEST SUMMARY

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1. General Remarks

1.1 Complementary Materials

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

Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd.
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

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 emission and Radiated emission				
EMI Test Receiver	Rohde & Schwarz	ESCI-3	100216	2012-03-16
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2012-03-16
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100111	2012-03-16
Trilog-Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	209	2012-08-21
Double-Ridged Waveguide Horn Antenna	Rohde & Schwarz	HF906	100385	2012-08-24
Pre-amplifier	MITEQ	AFS42-00101800-25-S-42	1101599	2012-07-31
Standard Gain Horn Antenna	EMCO	3160-09	21642	2014-06-26
Pre-amplifier	MITEQ	AFS33-18002650-30-8P-44	1108282	2012-03-16
3m Anechoic Chamber	Albatross Project GmbH	N/A	N/A	2012-04-16
Radio Test Suite				
Receiver	R&S	ESCI	100178	2012-09-27
Spectrum Analyzer	Agilent	E4404B	MY41440753	2012-04-16
Conducted Emission				
EMI Test Receiver	Rohde & Schwarz	ESCS30	100316	2012-03-16
Pulse Limiter	Rohde & Schwarz	11947A	100701	2012-03-16
Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100114	2012-03-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

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

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 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 Bluetooth stereo receiver.

The *Bluetooth*® Stereo Transmitter and Receiver combine the stylish design and reliable technology in the ideal minimized units. This tiny Round-shaped *Bluetooth*® Transmitter can be connected to any music player such as a CD player, MP3 player iPod, TV, HiFi and even handheld game console through 3.5mm stereo plug for stereo streaming. The Square-shaped Receiver, which is designed in a cubic shape, serves to receive audio signals from the Transmitter, or to receive audio signals from your own *Bluetooth*® music player.

The EUT operates at 2.4GHz ISM frequency band.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Bluetooth Stereo Receiver
Type Designation:	BH502
FCC ID	MVABH502-001R

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Extreme Temperature Range	-20°C to +55°C
Operation Voltage	DC 3.7V (via Lithium Battery)
Modulation	GFSK, 8PSK, $\pi / 4$ DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	2dBi
RF Output Power	0.00366W (5.63dBm)

Table 4: Frequency hopping information

Technical Specification	Description
Hopping Range	Hereby we declare that the maximum frequency of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.1+EDR for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73,07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43,15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel (2402MHz)
 - 2. Middle channel (2441MHz)
 - 3. High channel (2480MHz)
- 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
- PCB Layout
- Photo Document
- Technical Description
- 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

The EUT was tested with following accessories

Description	Manufacturer	Type	Rating
AC/DC Adapter	Dongguan Yinli Electronics Co., Ltd.	YLS0061- T050030	Input: AC100-240V 50/60Hz 0.3A Output: DC5V 300mA

4.4 Countermeasures to achieve EMC Compliance

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

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

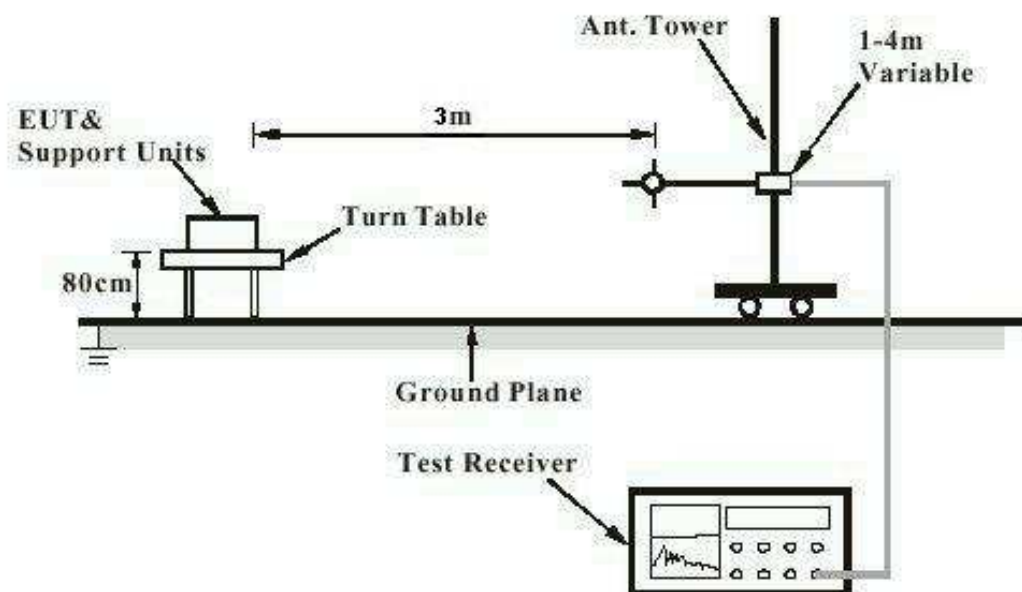


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

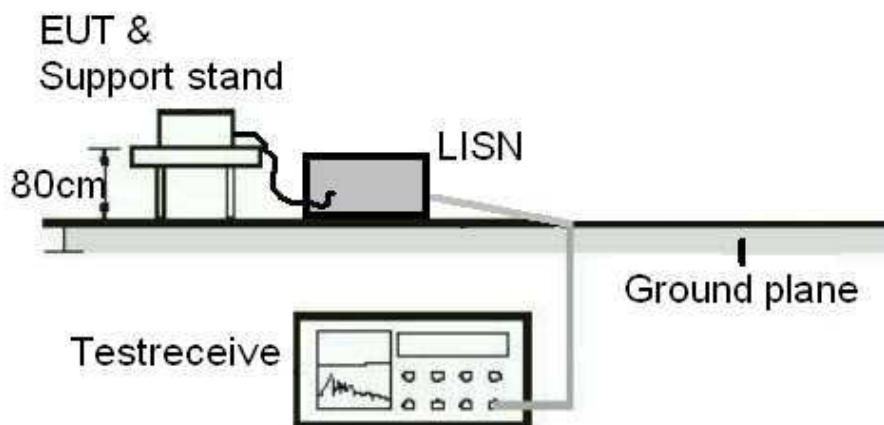
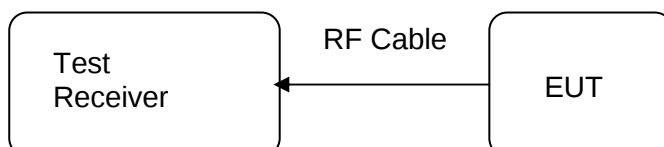


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2011-09-19
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
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 0dBi, 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.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2011-09-19
 Test standard : FCC Part 15.247(b)(1)
 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 : 20°C
 Relative humidity : 50%
 Atmospheric pressure : 101 kPa

Table 5: Test result of Peak Output Power, GFSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	5.63	0.00366	1
Middle Channel	2441	4.94	0.00312	1
High Channel	2480	4.33	0.00271	1

Remark: RBW is 1MHz

Table 6: Test result of Peak Output Power, 8DPSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	2.727	0.00187	1
Middle Channel	2441	4.792	0.00301	1
High Channel	2480	4.185	0.00262	1

Remark: RBW is 3MHz

5.1.3 20dB Bandwidth

RESULT:
Passed

Date of testing : 2011-08-09
 Test standard : FCC Part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 20°C
 Relative humidity : 50%
 Atmospheric pressure : 101 kPa

Table 7: Test result of 20dB Bandwidth, GFSK modulation

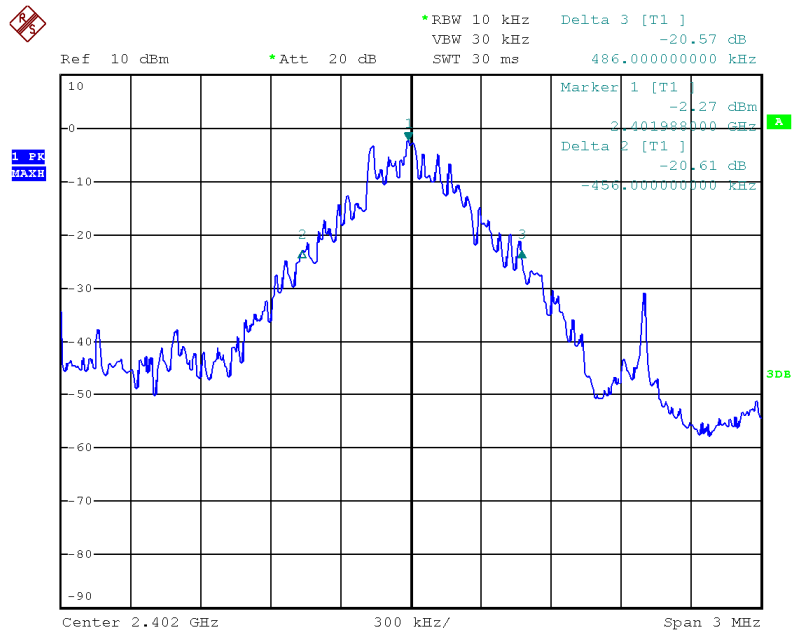
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	942	/	Pass
Mid Channel	2441	924	/	Pass
High Channel	2480	936	/	Pass

Table 8: Test result of 20dB Bandwidth, 8DPSK modulation

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1320	/	Pass
Mid Channel	2441	1296	/	Pass
High Channel	2480	1296	/	Pass

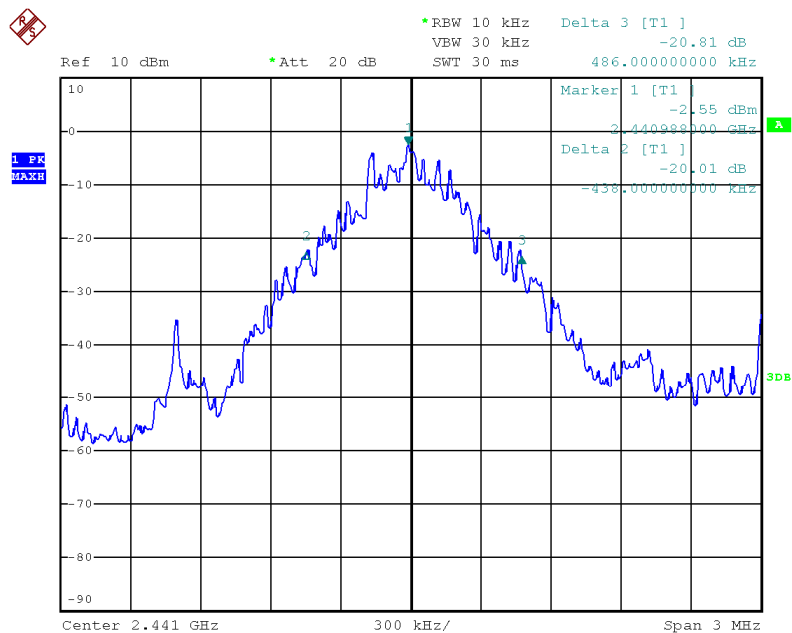
Test Plot of 20dB Bandwidth, GFSK

Low Channel

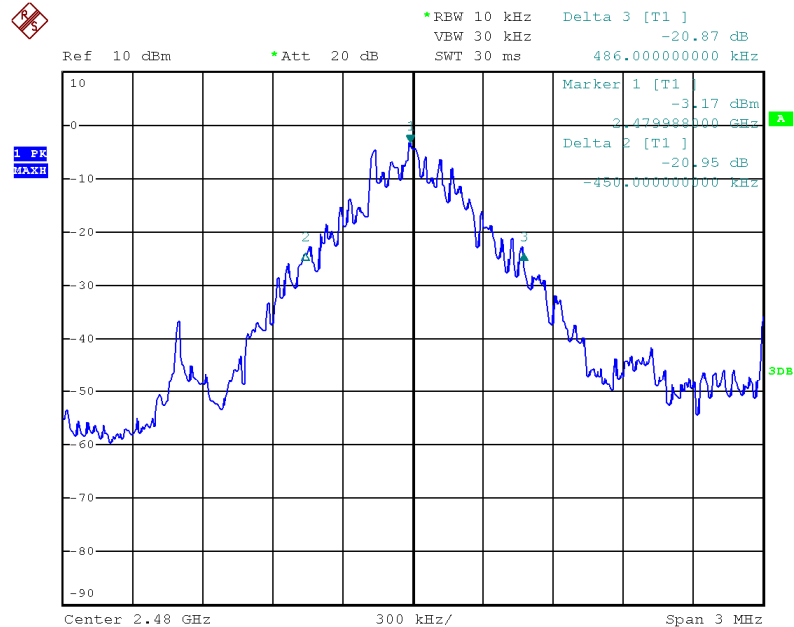


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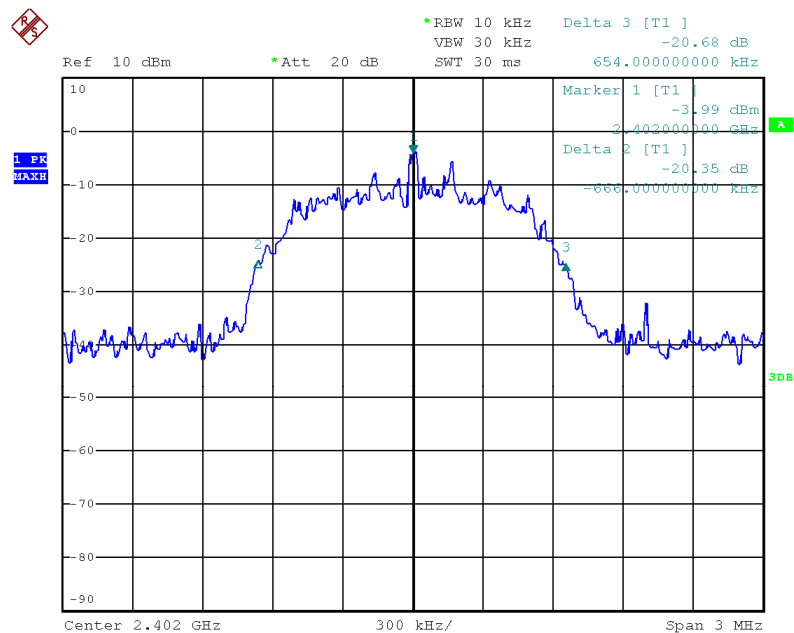
Middle Channel



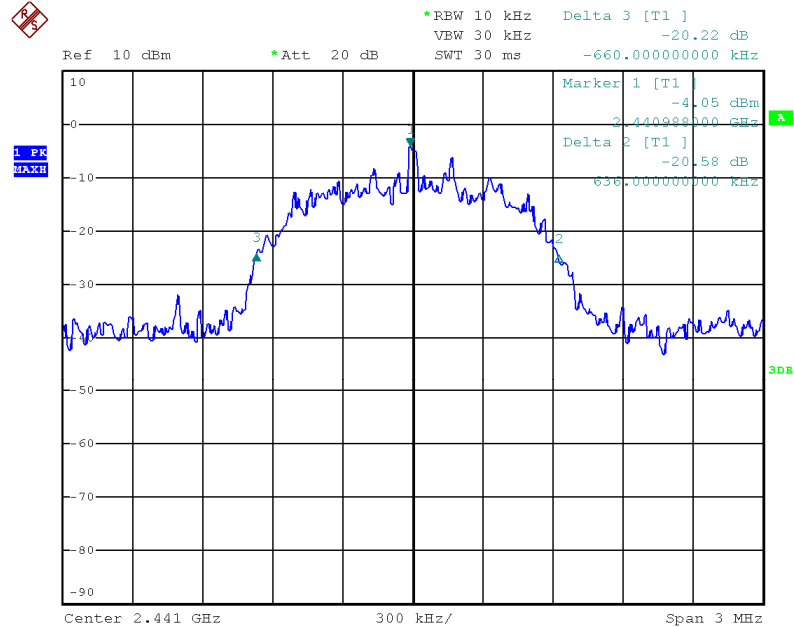
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High Channel


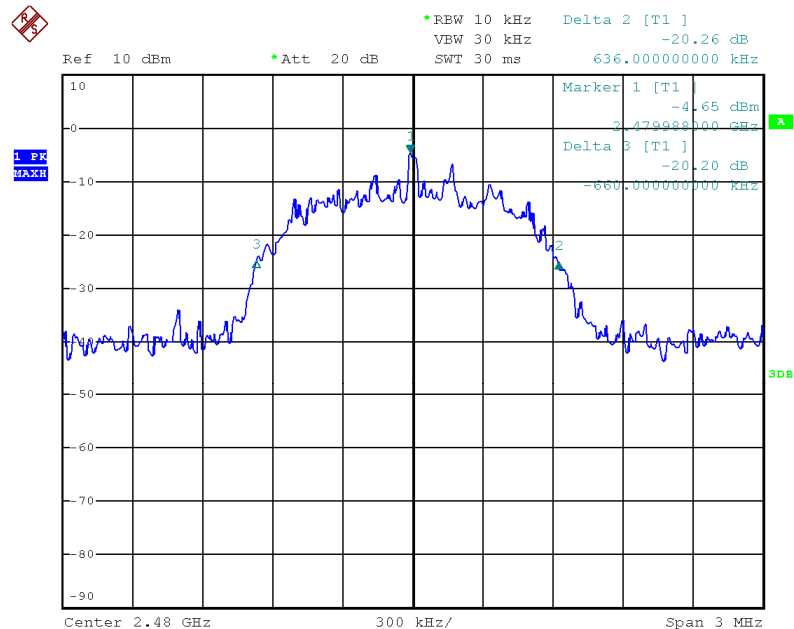
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Test Plot of 20dB Bandwidth, 8DPSK
Low Channel


Date: 19.SEP.2011 05:02:44

Middle Channel


Date: 19.SEP.2011 05:03:30

High Channel


Date: 19.SEP.2011 05:05:52

5.1.4 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2011-09-19
Test standard	:	FCC part 15.247(d)
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

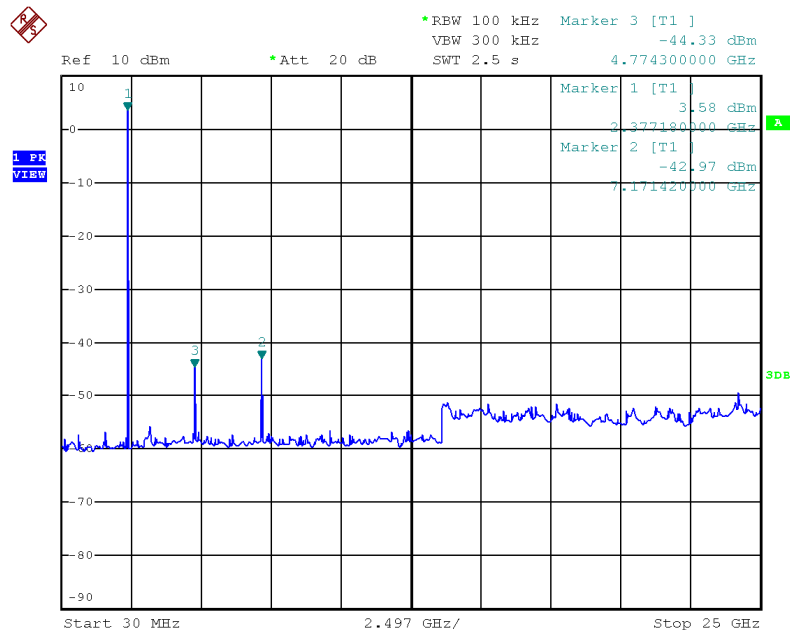
Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	22°C
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

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

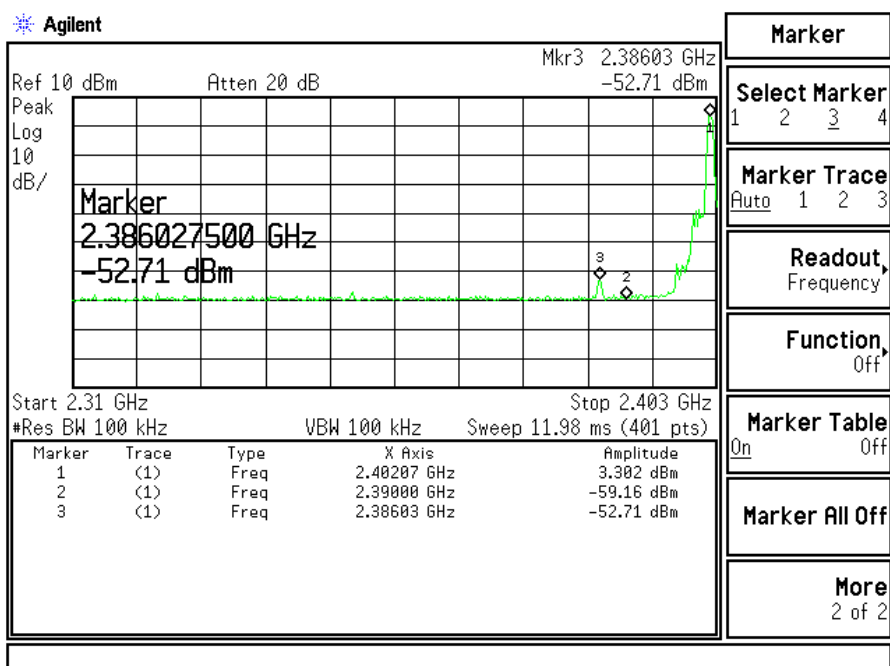
Test Plot of 100kHz Bandwidth of Frequency Band Edge, GFSK modulation

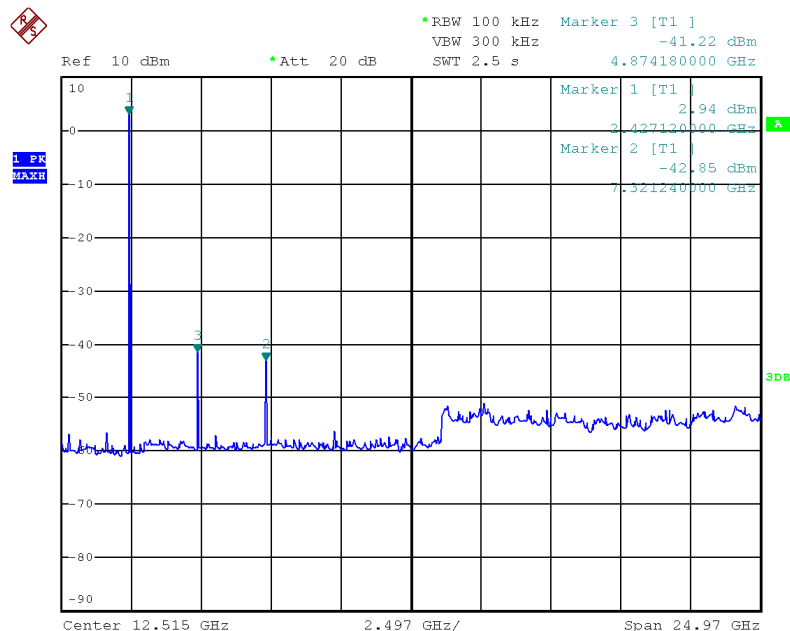
Low Channel



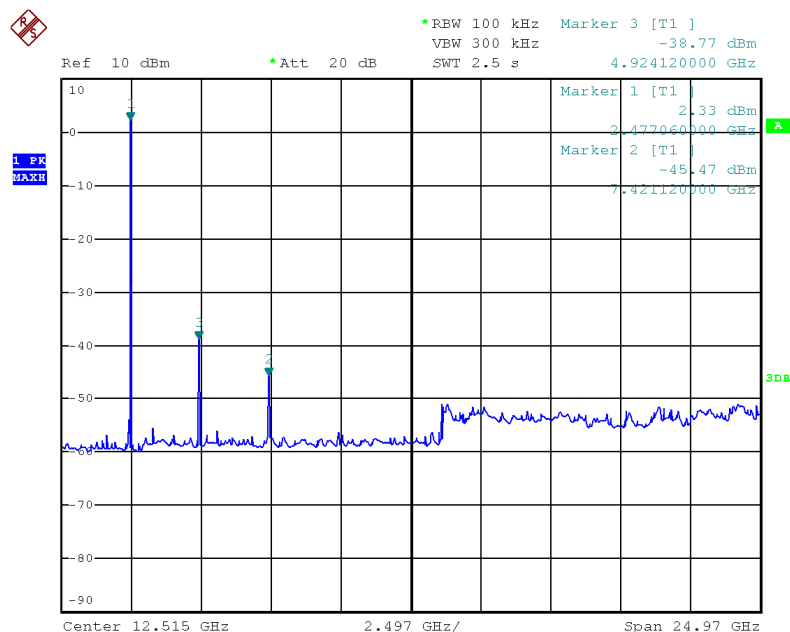
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Low Channel, Band Edge

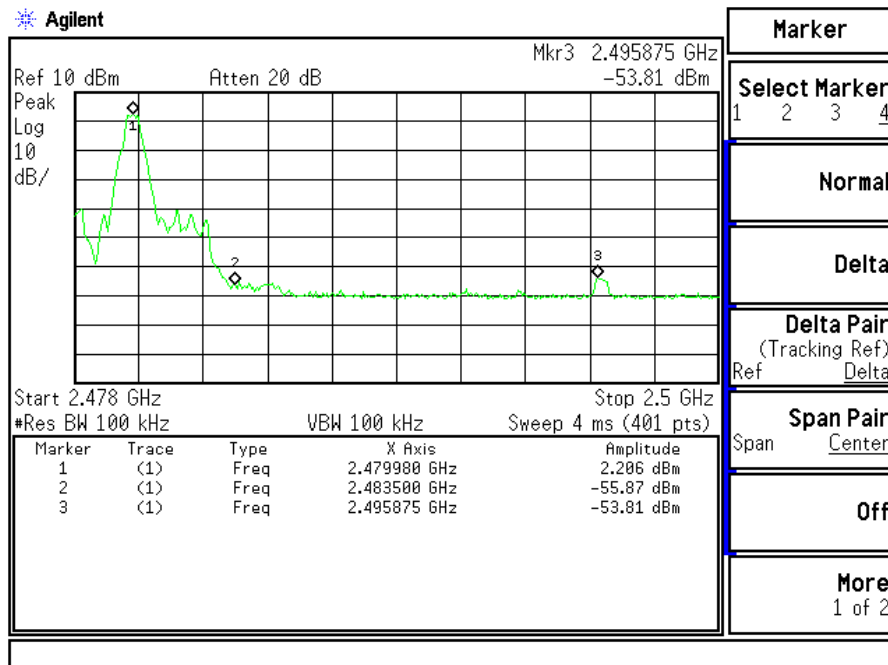
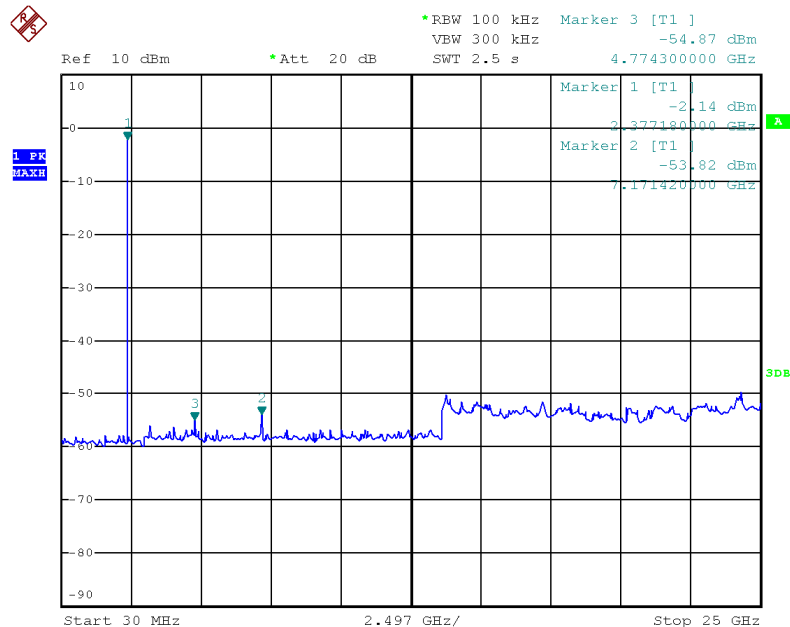


Middle Channel


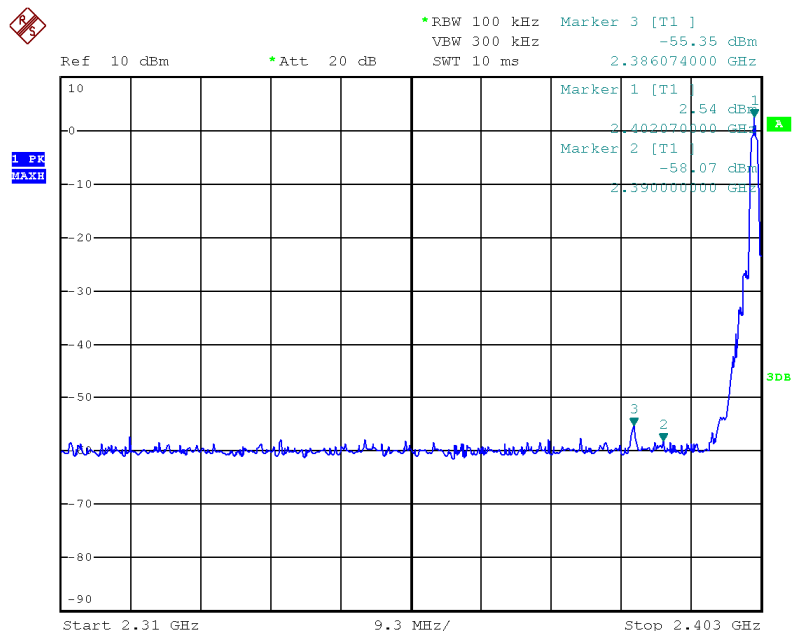
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High Channel


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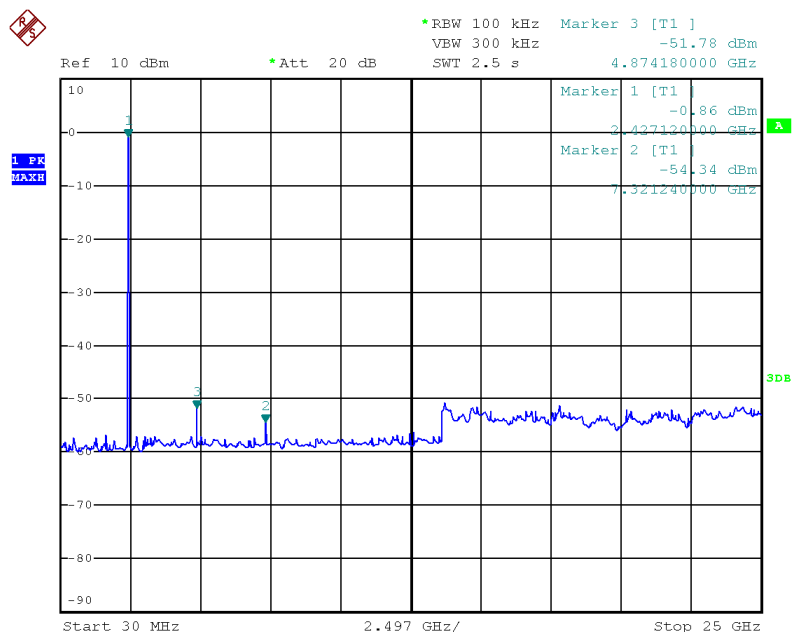
High Channel, Band Edge

Test Plot of 100kHz Bandwidth of Frequency Band Edge, 8DPSK modulation
Low Channel


Low Channel, Band Edge



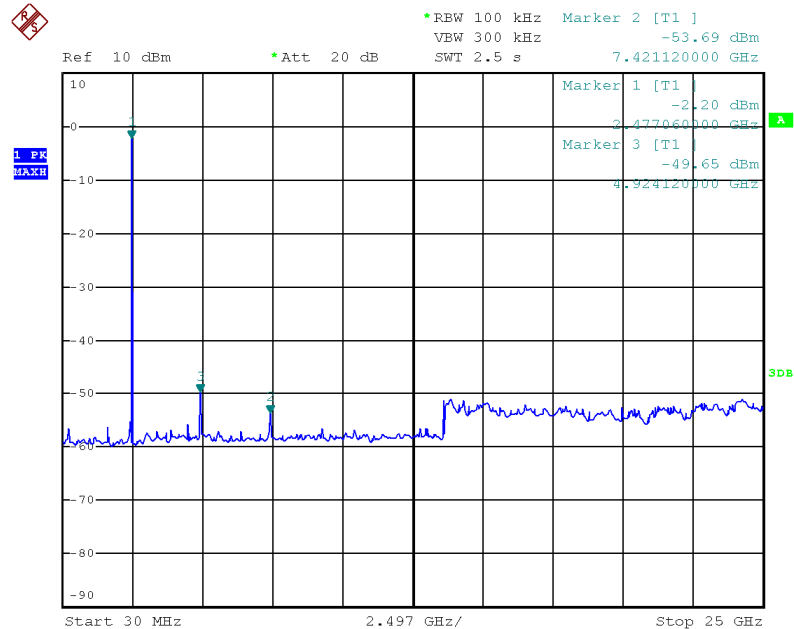
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Middle Channel



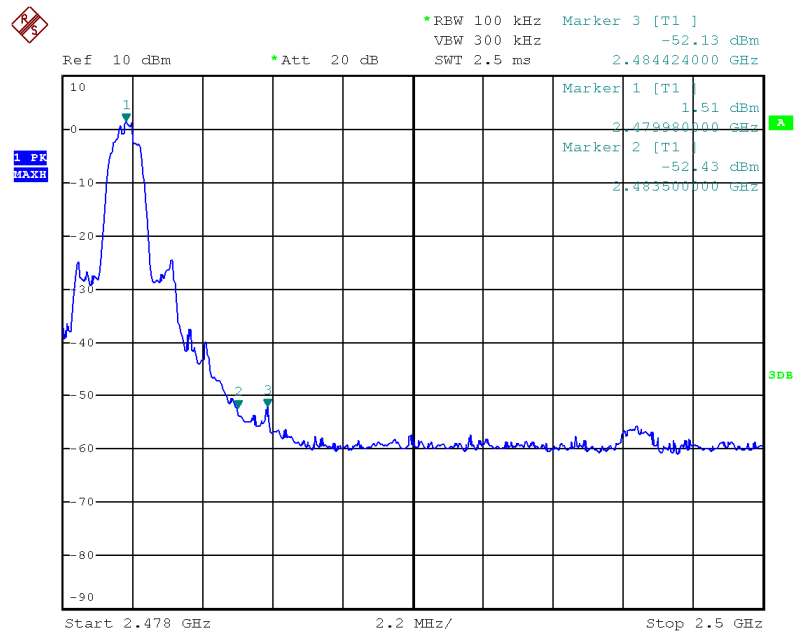
Date: 19.SEP.2011 04:59:28

High Channel



Date: 19.SEP.2011 05:01:19

High Channel, Band Edge



Date: 19.SEP.2011 05:43:40

5.1.5 Spurious Emission

RESULT:**Passed**

Date of testing	:	2011-09-25 to 2011-09-28
Test standard	:	FCC part 15.247(d) FCC Part 15.205
Basic standard	:	ANSI C63.4: 2003
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
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	:	50%
Atmospheric pressure	:	101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For details refer to Appendix 1.

5.1.6 Frequency Separation

RESULT:
Passed

Date of testing : 2011-09-19
 Test standard : FCC part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Limit : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 22°C
 Relative humidity : 52%
 Atmospheric pressure : 101 kPa

Table 9: Test result of Frequency Separation, GFSK modulation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2479			

Table 10: Test result of Frequency Separation, 8DPSK modulation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2479			

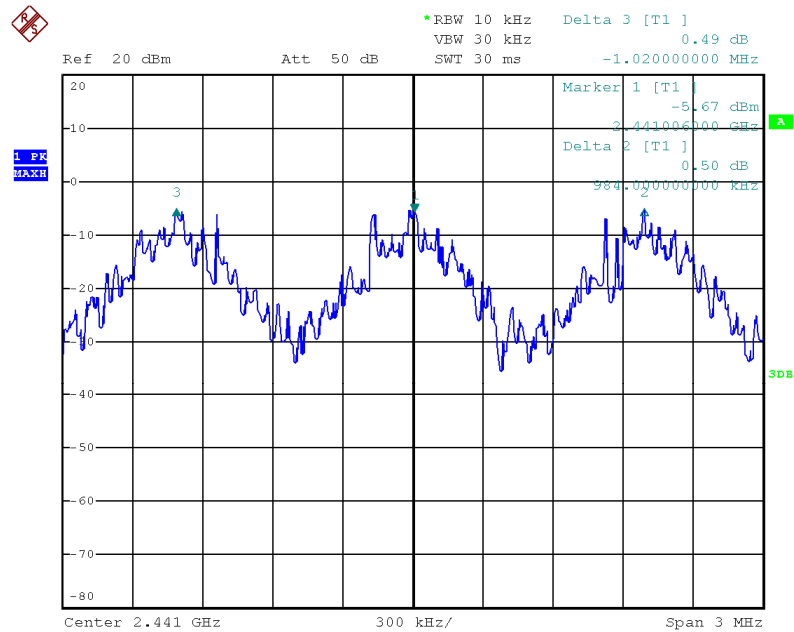
Test Plot of Frequency Separation, GFSK modulation

Low Channel

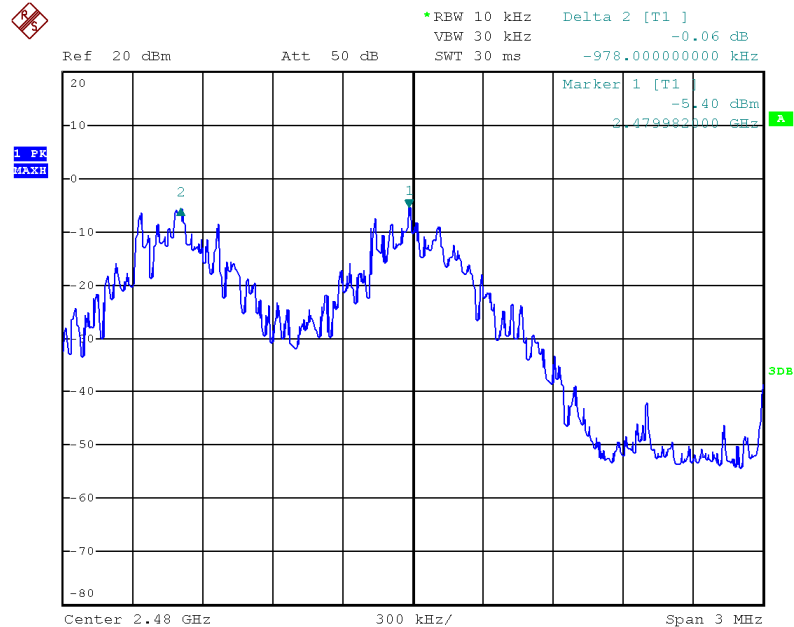


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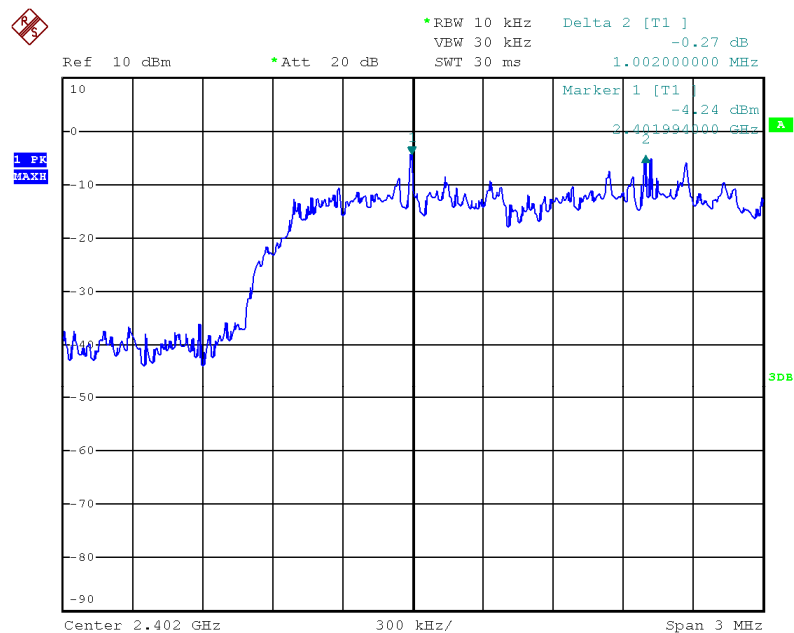
Middle Channel



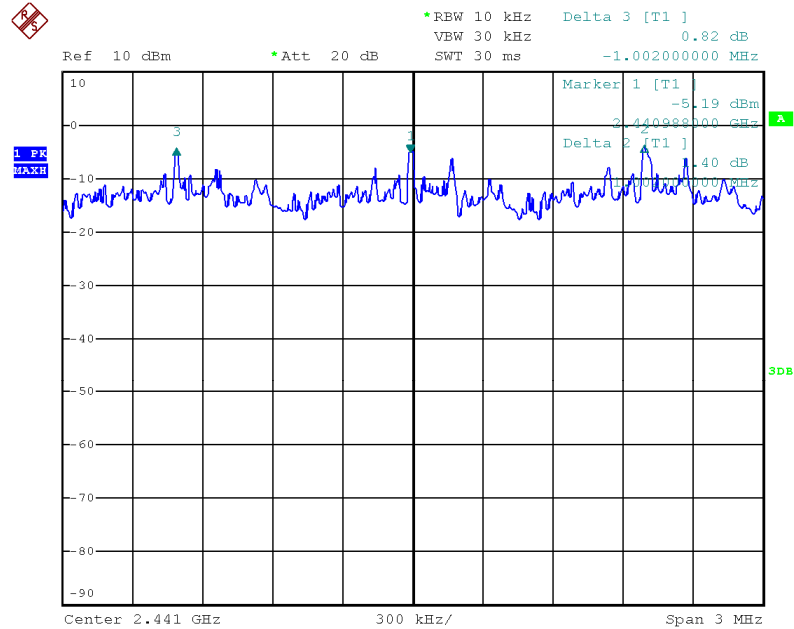
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High Channel


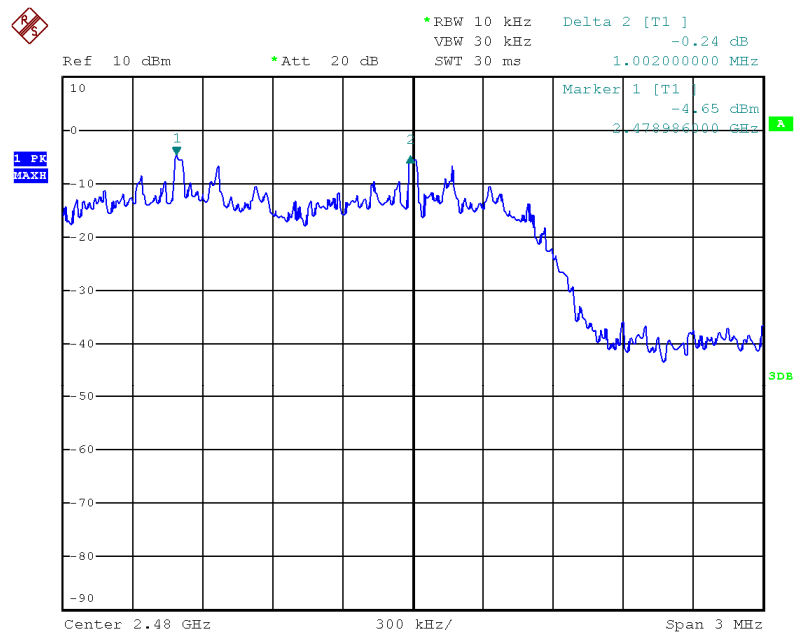
Date: 19.SEP.2011 04:40:13

Test Plot of Frequency Separation, 8DPSK modulation
Low Channel


Date: 19.SEP.2011 05:24:53

Middle Channel


Date: 19.SEP.2011 05:37:18

High Channel


Date: 19.SEP.2011 05:38:45

5.1.7 Number of hopping frequency

RESULT:**Passed**

Date of testing : 2011-09-19
Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.4: 2003
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 22°C
Relative humidity : 52%
Atmospheric pressure : 101 kPa

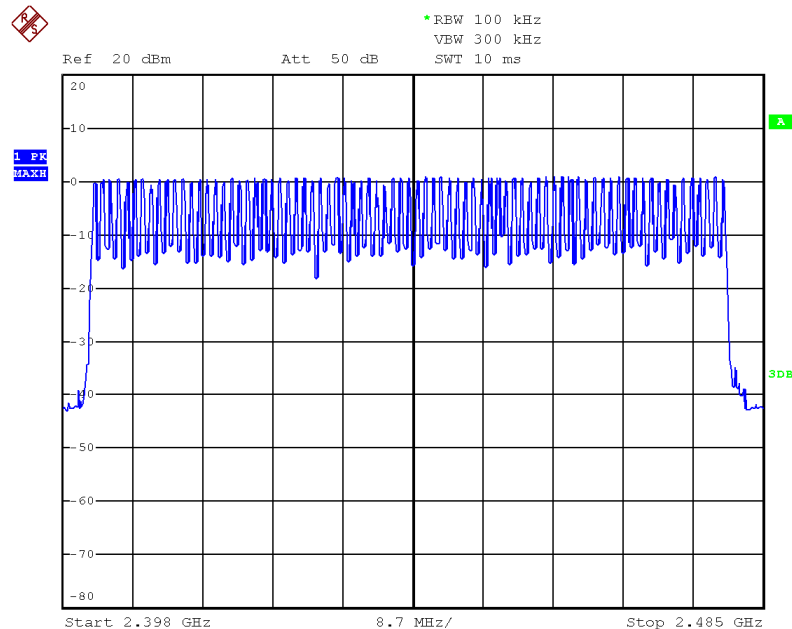
Table 11: Test result of Number of hopping frequency, GFSK

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

Table 12: Test result of Number of hopping frequency, 8DPSK

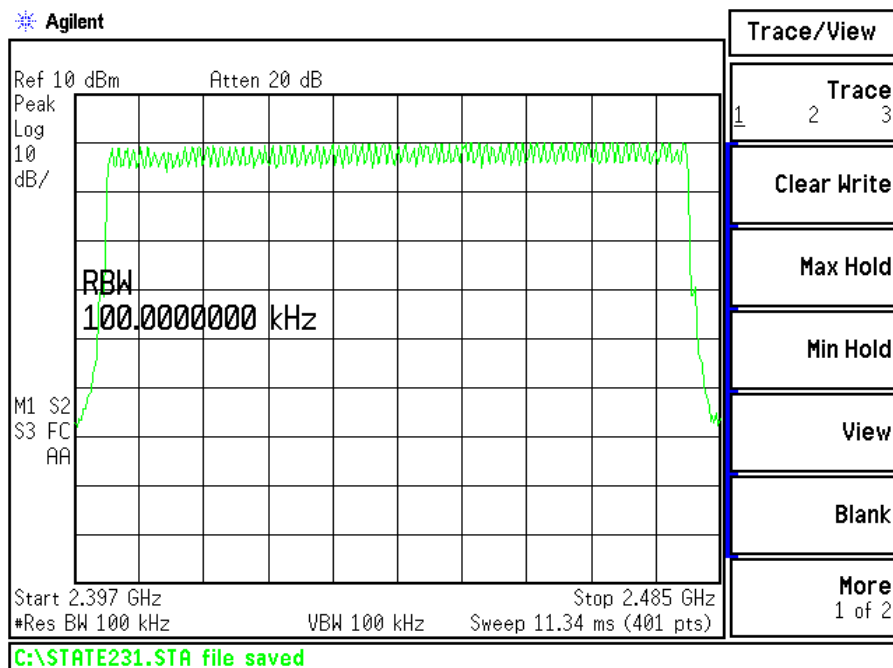
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

Test Plot of Number of hopping frequencies, GFSK



Date: 19.SEP.2011 04:45:54

Test Plot of Number of hopping frequencies, 8DPSK



5.1.8 Time of Occupancy

RESULT:
Passed

Date of testing : 2011-09-19
 Test standard : FCC part 15.247(a)(1)(iii)
 Basic standard : ANSI C63.4: 2003
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 20°C
 Relative humidity : 50%
 Atmospheric pressure : 101 kPa

Table 13: Test result of Time of Occupancy, GFSK modulation

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.432	0.138	0.4	Pass
	DH3	1.450	0.232	0.4	Pass
	DH5	2.980	0.318	0.4	Pass
Mid Channel	DH1	0.426	0.136	0.4	Pass
	DH3	1.450	0.232	0.4	Pass
	DH5	2.960	0.316	0.4	Pass
High Channel	DH1	0.426	0.138	0.4	Pass
	DH3	1.450	0.232	0.4	Pass
	DH5	2.960	0.316	0.4	Pass

Table 14: Test result of Time of Occupancy, 8DPSK modulation

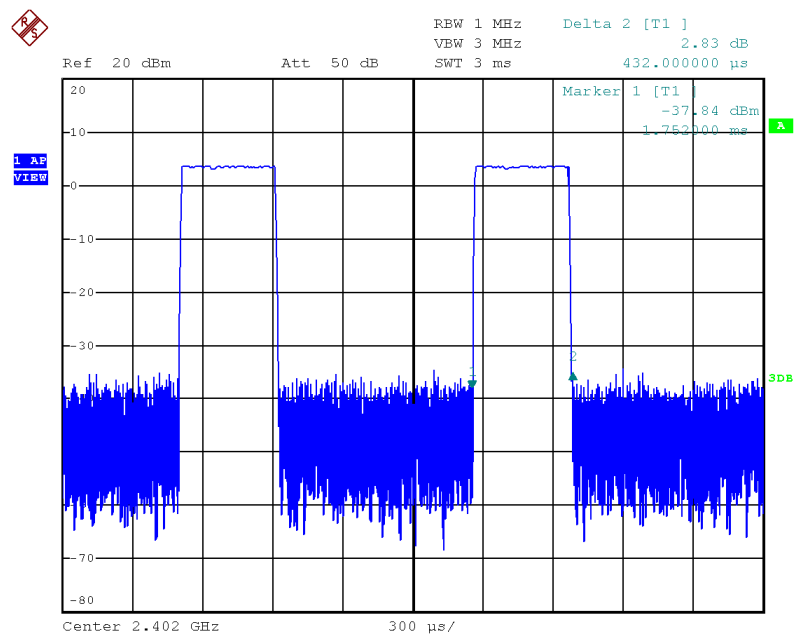
Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.558	0.179	0.4	Pass
	DH3	1.790	0.286	0.4	Pass
	DH5	3.080	0.329	0.4	Pass
Mid Channel	DH1	0.558	0.179	0.4	Pass
	DH3	1.800	0.288	0.4	Pass
	DH5	3.080	0.329	0.4	Pass
High Channel	DH1	0.564	0.180	0.4	Pass
	DH3	1.800	0.288	0.4	Pass
	DH5	3.080	0.329	0.4	Pass

Note:

$$\text{Dwell time} = \text{Pulse width} \times (\text{Hopping rate} / \text{Number of channels}) \times \text{Period}$$
$$\text{Period} = 0.4 \text{ (seconds/ channel)} \times 79 \text{ (channel)} = 31.6 \text{ seconds}$$

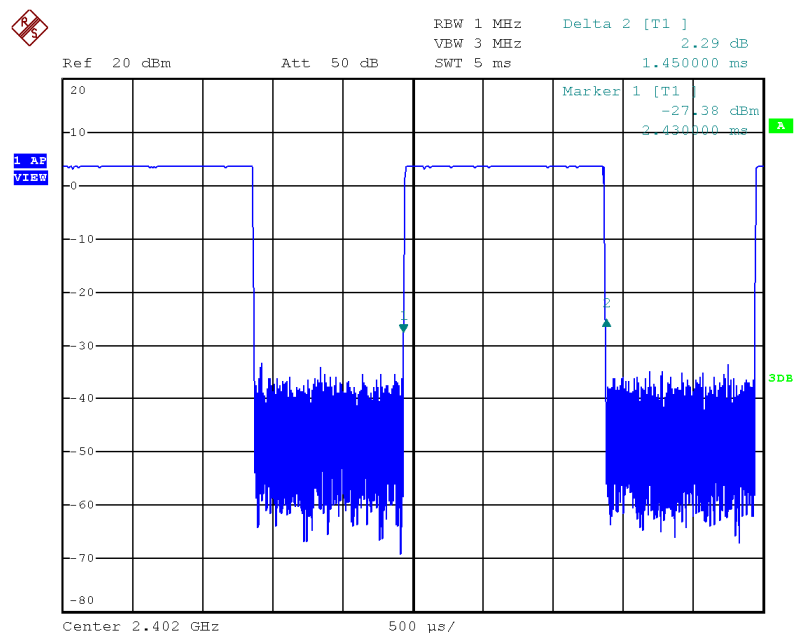
Test Plot of Time of Occupancy, GFSK modulation

Low Channel- DH1

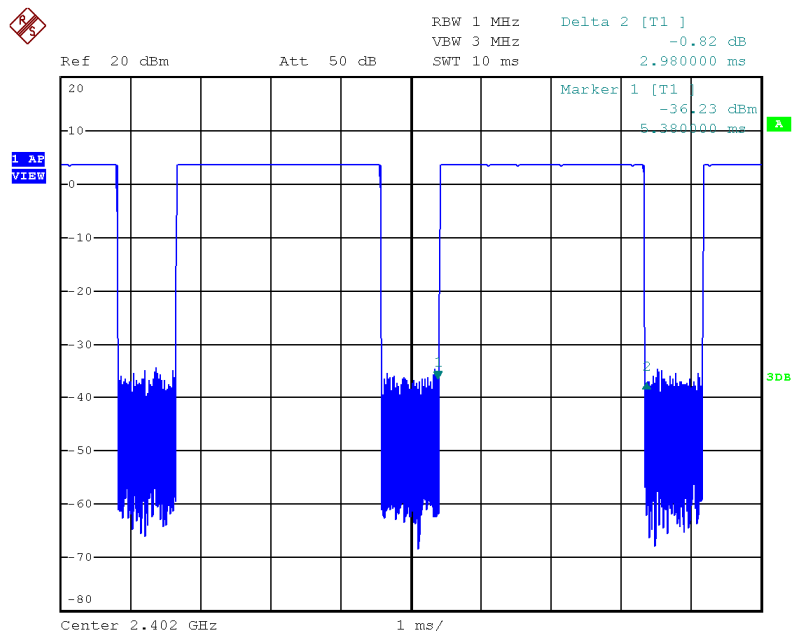


Date: 19.SEP.2011 04:47:00

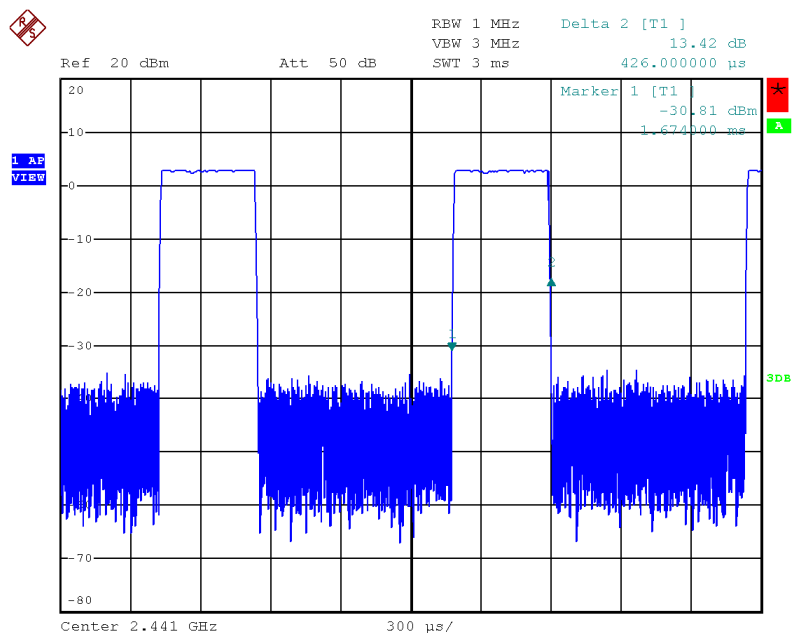
Low Channel- DH3



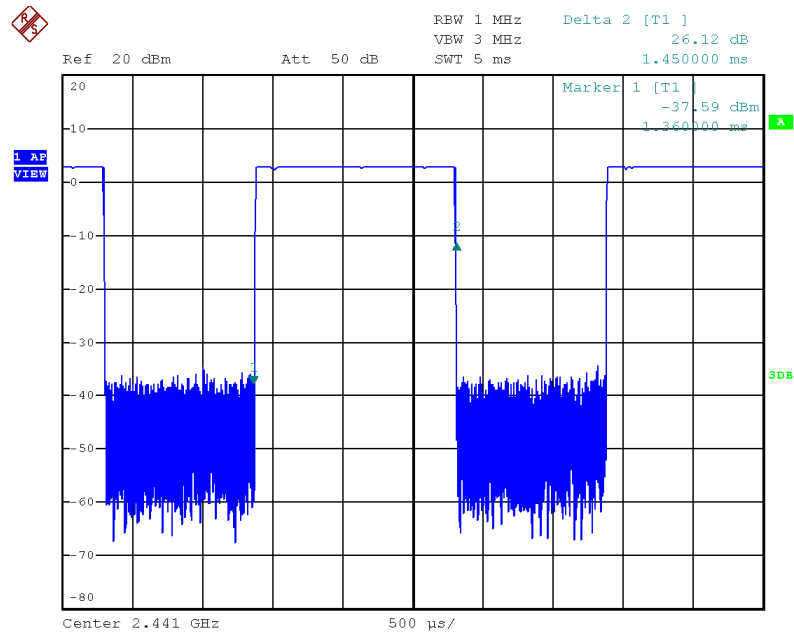
Date: 19.SEP.2011 04:49:32

Low Channel- DH5


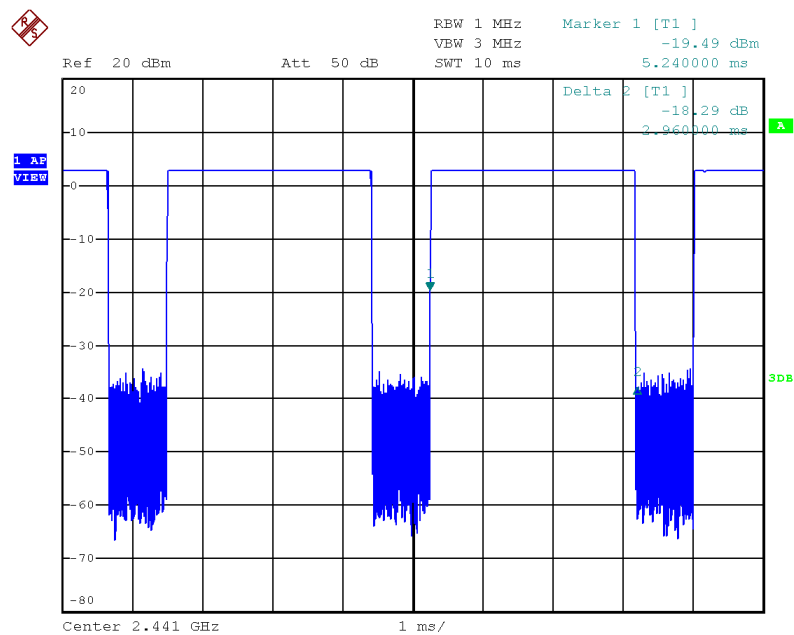
Date: 19.SEP.2011 04:52:01

Middle Channel- DH1


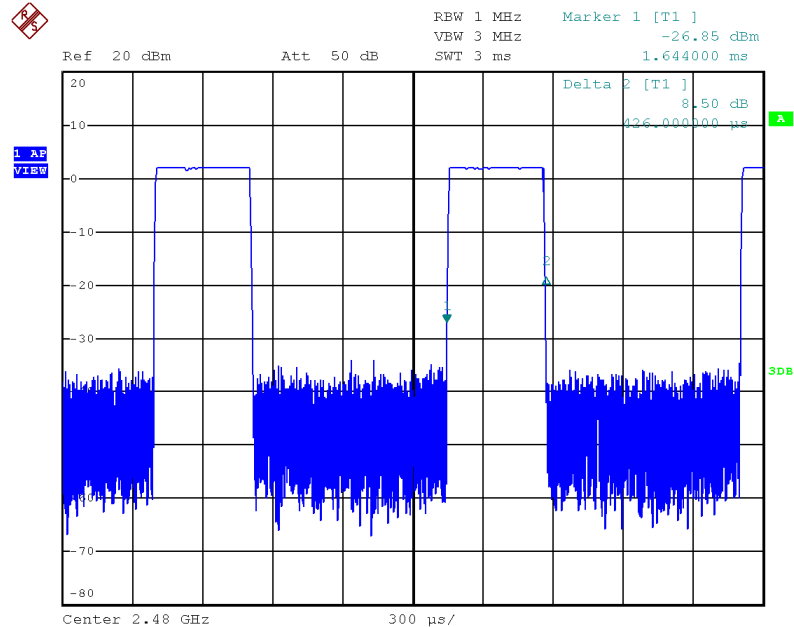
Date: 19.SEP.2011 04:47:50

Middle Channel- DH3


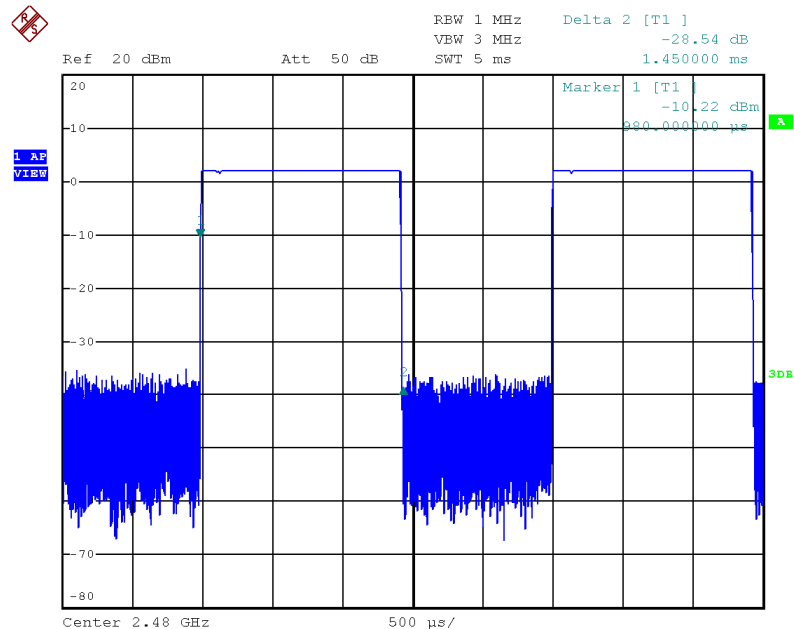
Date: 19.SEP.2011 04:50:13

Middle Channel- DH5


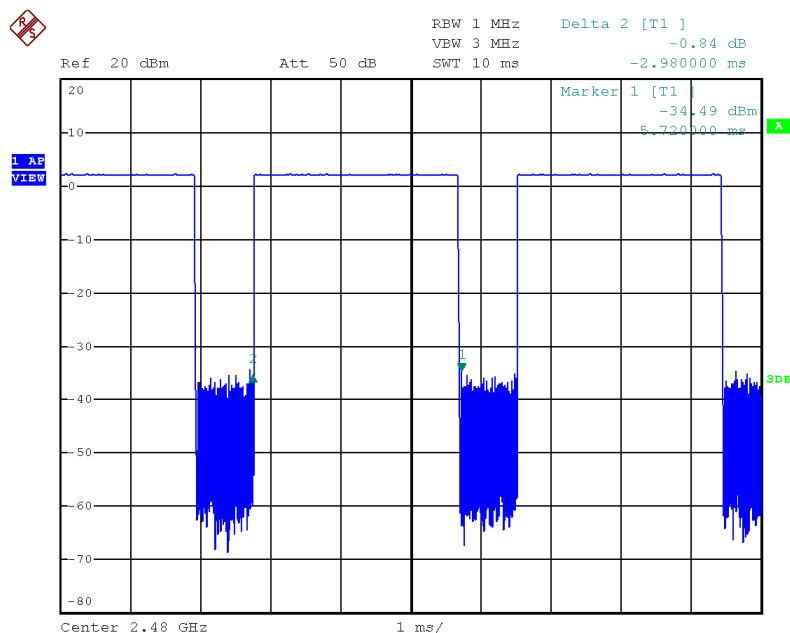
Date: 19.SEP.2011 04:52:30

High Channel- DH1


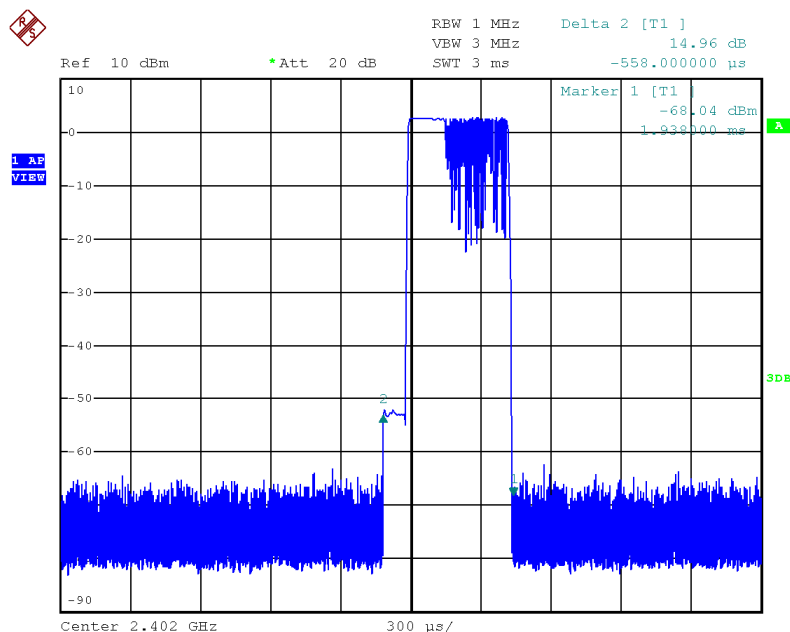
Date: 19.SEP.2011 04:48:16

High Channel- DH3


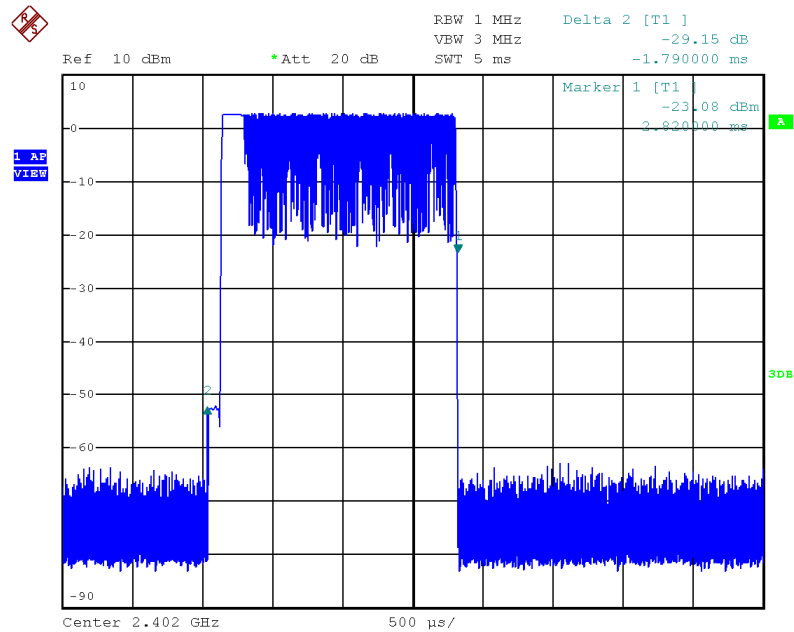
Date: 19.SEP.2011 04:50:47

High Channel- DH5


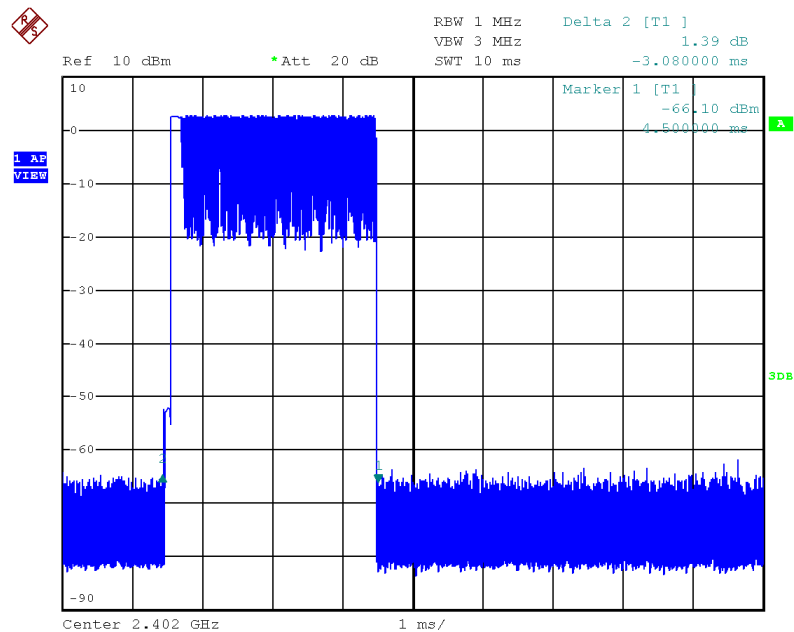
Date: 19.SEP.2011 04:53:14

Test Plot of Time of Occupancy, 8DPSK modulation
Low Channel- DH1


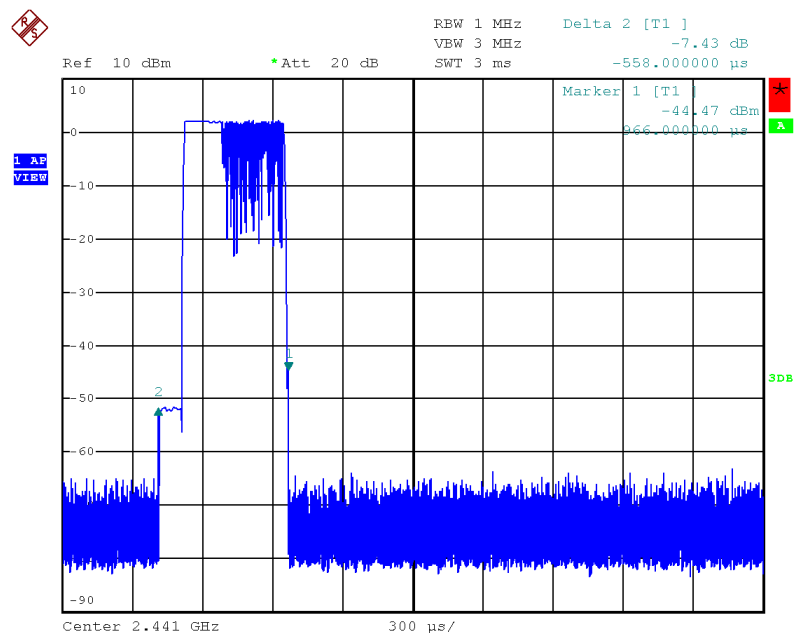
Date: 19.SEP.2011 05:50:26

Low Channel- DH3


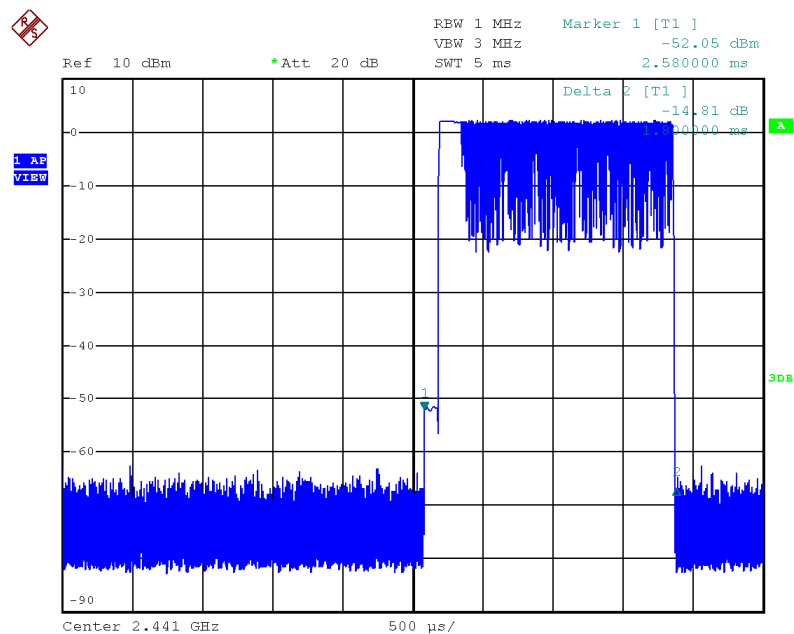
Date: 19.SEP.2011 05:47:56

Low Channel- DH5


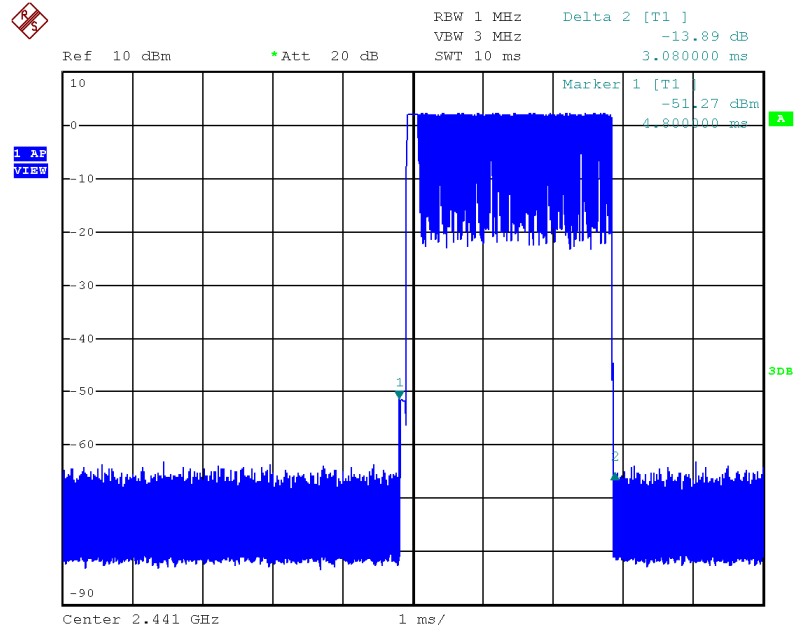
Date: 19.SEP.2011 05:45:17

Middle Channel- DH1


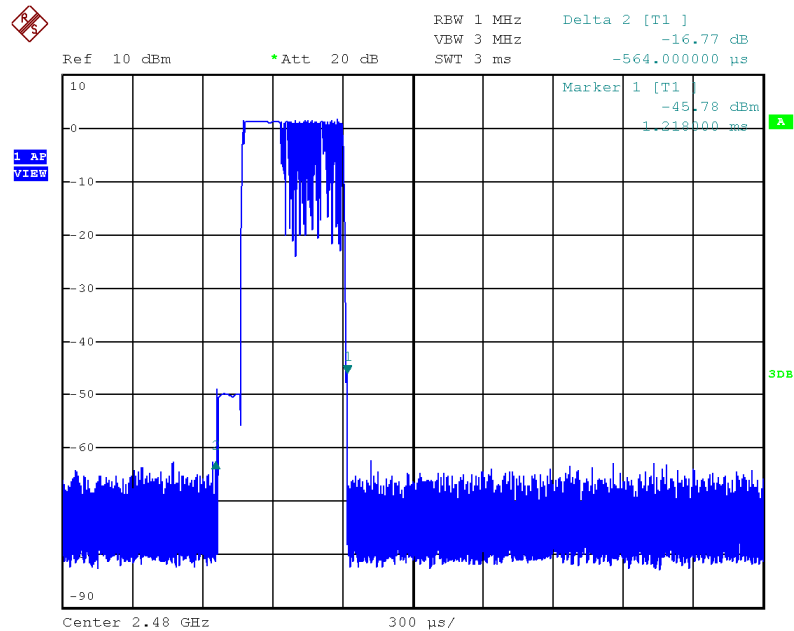
Date: 19.SEP.2011 05:51:13

Middle Channel- DH3


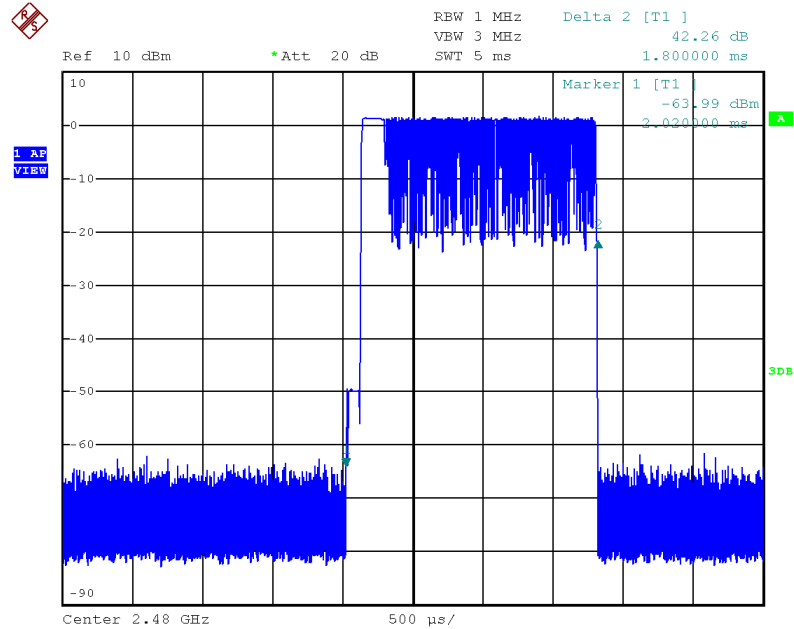
Date: 19.SEP.2011 05:48:37

Middle Channel- DH5


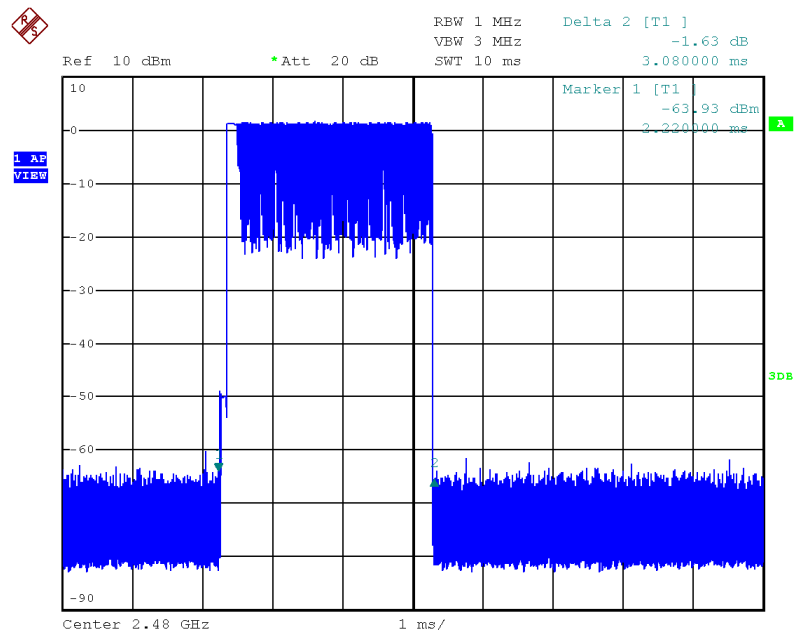
Date: 19.SEP.2011 05:45:51

High Channel- DH1


Date: 19.SEP.2011 05:51:58

High Channel- DH3


Date: 19.SEP.2011 05:49:15

High Channel- DH5


Date: 19.SEP.2011 05:46:24

5.1.9 Conducted emissions

RESULT:**Passed**

Date of testing	:	2011-09-13
Test standard	:	FCC Part 15.107(a), FCC Part 15.207(a)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a), FCC Part 15.207(a)
Kind of test site	:	Shield room

Test setup

Input Voltage (to AC input of Adapter)	:	AC 120V, 60Hz
Operation Mode	:	C
Earthing	:	Not connected
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

5.1.10 Radiated emissions

RESULT:**Passed**

Date of testing	:	2011-09-28
Test standard	:	FCC Part 15.109
Basic standard	:	ANSI C63.4: 2003
Test frequency	:	30 - 6000MHz
Limite	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage (to AC input of Adapter)	:	AC 120V, 60Hz
Operation Mode	:	C
Earthing	:	Not connected
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

The Radiated Emissions testing was performed in the X and Z axis mode. The X Axis mode is the worst-case recorded in this test report.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**

Test standard : FCC KDB Publication 447498

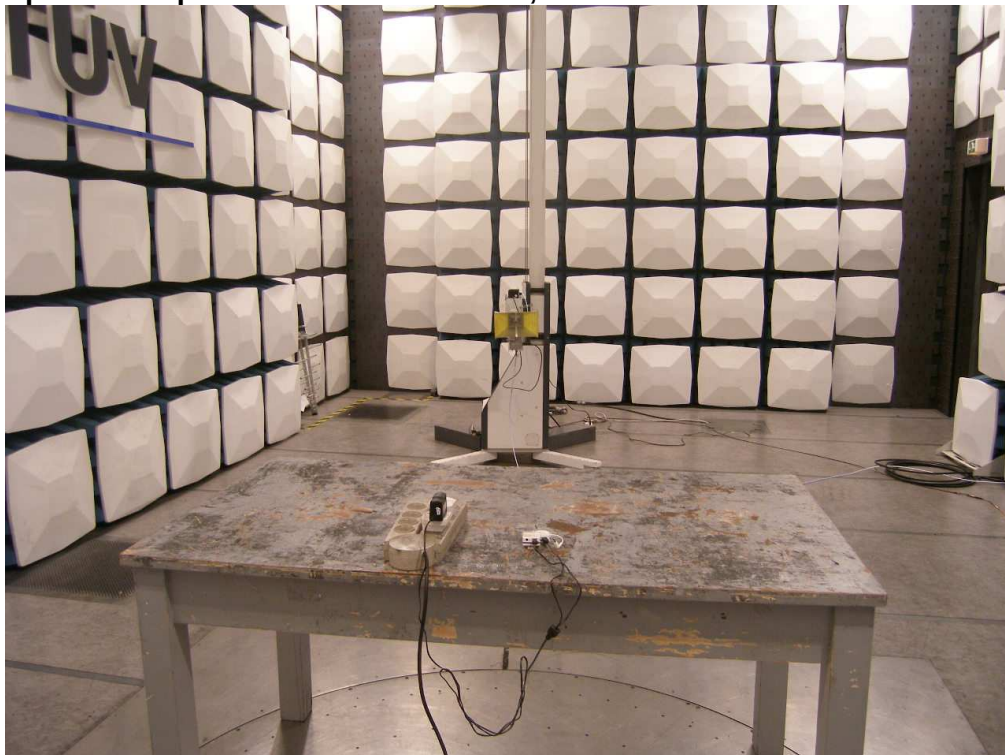
Since maximum peak output power of the transmitter is $<60/f(\text{GHz})\text{mW}$, i.e.
 $3.66\text{mW} < 25(=60/2.4)\text{mW}$, hence the EUT is excluded from SAR evaluation according to
FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Emissions, below 1GHz



Photograph 2: Set-up for Radiated Emissions, above 1GHz



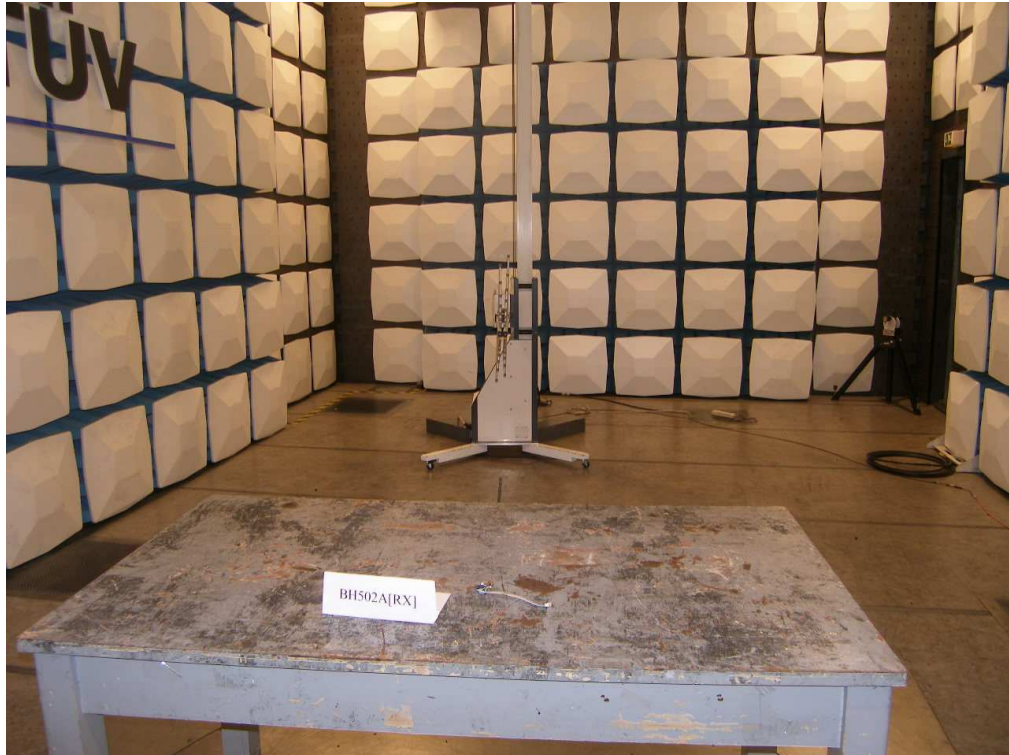
Photograph 3: Set-up for Coducted Emissions



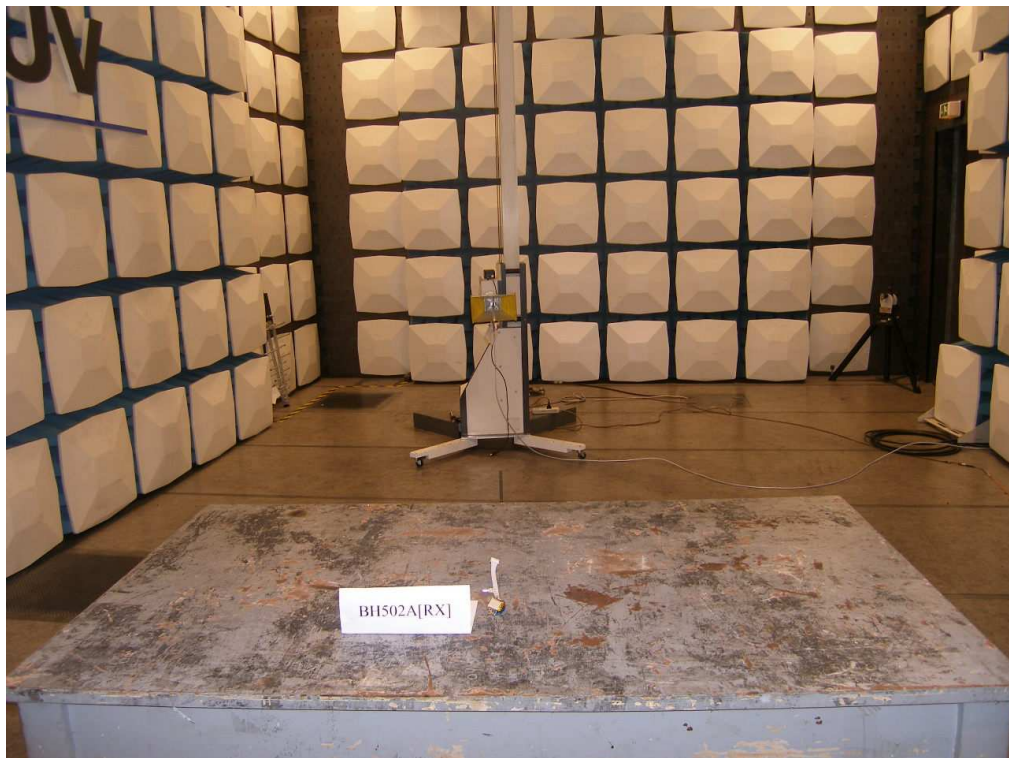
Photograph 4: Set-up for Spurious Emissions (9kHz-30MHz)



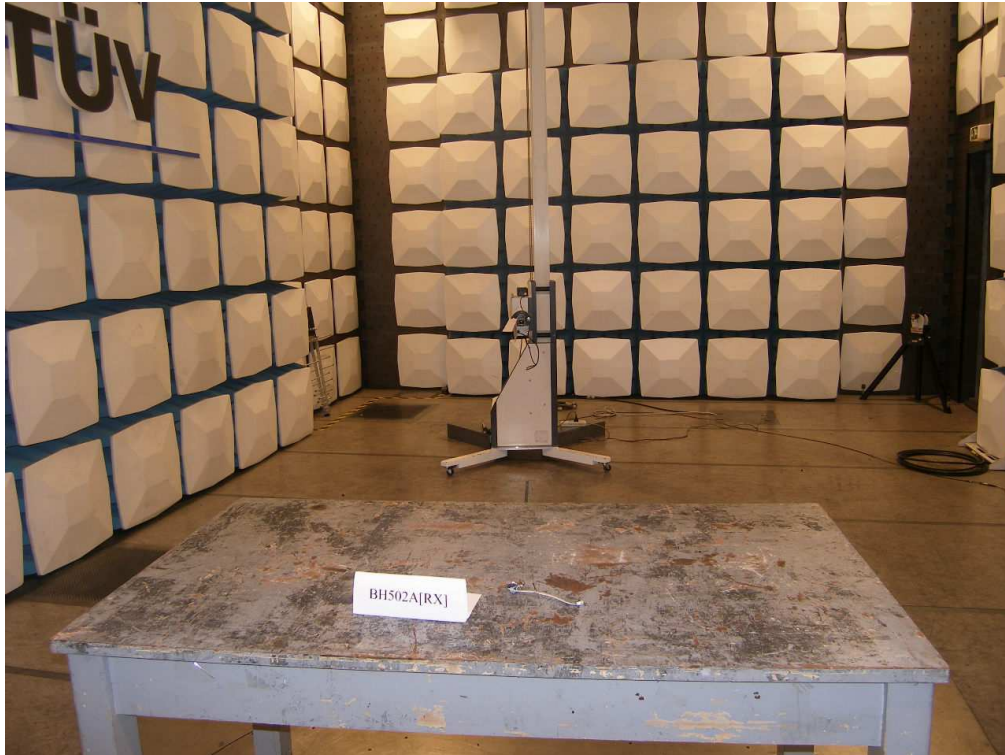
Photograph 5: Set-up for Spurious Emissions (30MHz-1GHz)



Photograph 6: Set-up for Spurious Emissions (1GHz-18GHz)



Photograph 7: Set-up for Spurious Emissions (18GHz-26GHz)



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Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

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EMC Test Service Hotline: +86-20-28391188

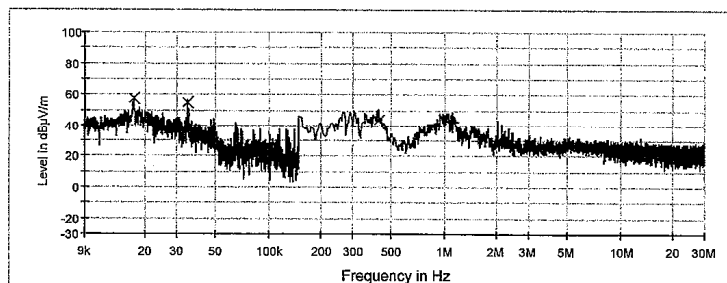
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
1.114000	42.5	---	20.3	H
2.018000	30.4	---	20.2	H
0.422000	---	43.4	20.7	H
0.017160	---	58.0	20.6	H
0.034840	---	55.3	20.2	H



Date: 25/09/2011 - Time: 16:29:04

Tested by:  Reviewed by: _____

**Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity
(9kHz – 30MHz) , GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

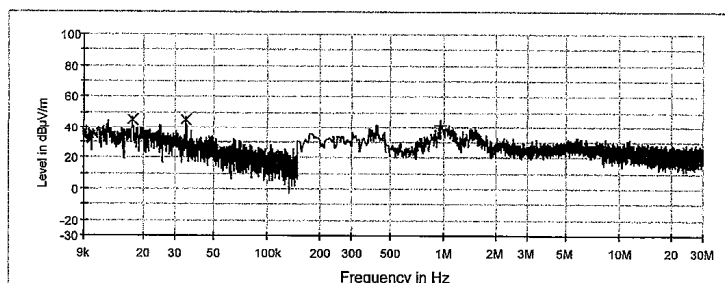
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr (dB)	Polarization
0.974000	41.3	---	20.3	V
5.866000	28.5	---	21.9	V
0.017160	---	45.6	20.6	V
0.034920	---	44.9	20.2	V



Date: 25/09/2011 - Time: 16:21:21

Tested by: Reviewed by: _____

Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 300MHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

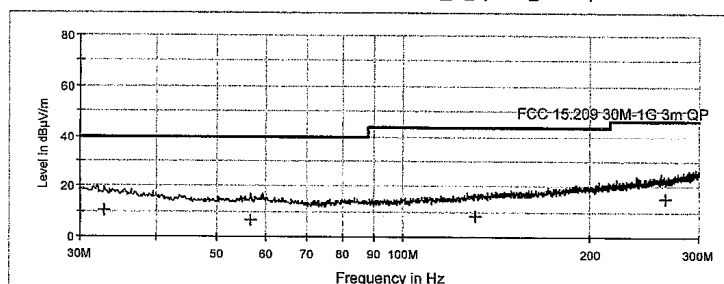
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 ,[RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QP (dB)	Limit QP (dBµV/m)	Polarization
32.850000	10.5	14.1	29.5	40.0	H
56.750000	6.8	11.0	33.2	40.0	H
131.250000	8.4	12.4	35.1	43.5	H
265.700000	15.0	19.3	31.0	46.0	H

Date: 9/26/2011 - Time: 2:16:17

Tested by:   Reviewed by: _____

Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 300MHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

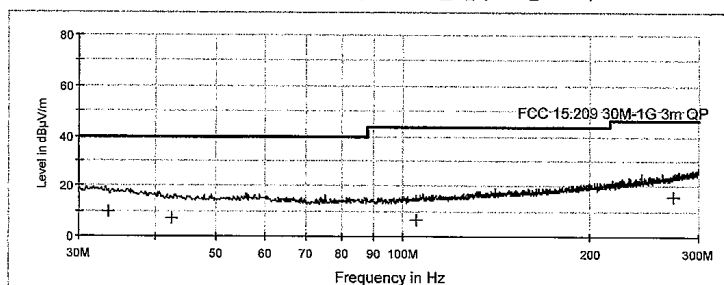
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Polarization
33.500000	9.7	13.9	30.3	40.0	V
42.550000	7.1	11.5	32.9	40.0	V
105.200000	6.8	11.0	36.7	43.5	V
273.700000	15.5	19.8	30.5	46.0	V

Date: 9/26/2011 - Time: 2:29:55

Tested by:   Reviewed by: _____

Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (300MHz – 1GHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

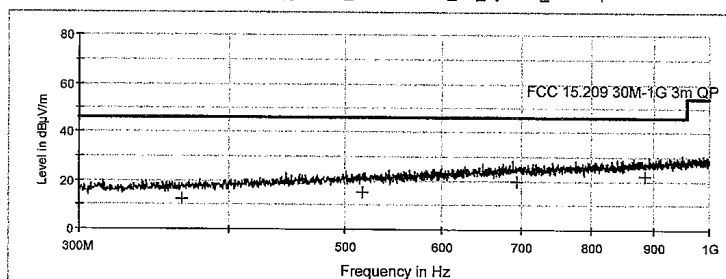
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502. [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Polarization
365.460000	12.2	16.1	33.8	46.0	H
517.020000	15.4	19.2	30.6	46.0	H
694.080000	19.5	22.4	26.5	46.0	H
885.180000	21.8	24.8	24.2	46.0	H



Date: 9/27/2011 - Time: 10:55:36

Tested by: _____ Reviewed by: _____

Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (300MHz – 1GHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

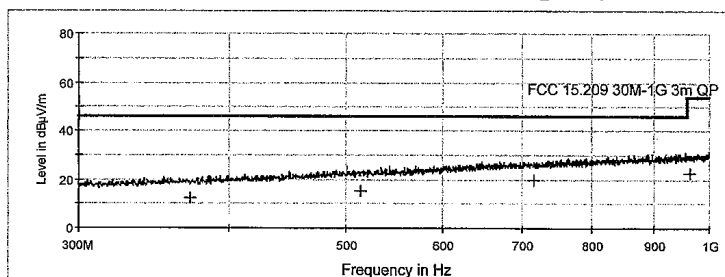
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Polarization
371.400000	12.3	16.2	33.7	46.0	V
514.200000	15.4	19.1	30.6	46.0	V
715.440000	19.7	22.5	26.3	46.0	V
963.240000	22.7	25.6	31.3	54.0	V



Date: 9/27/2011 - Time: 11:07:04

Tested by: _____ Reviewed by: _____

Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

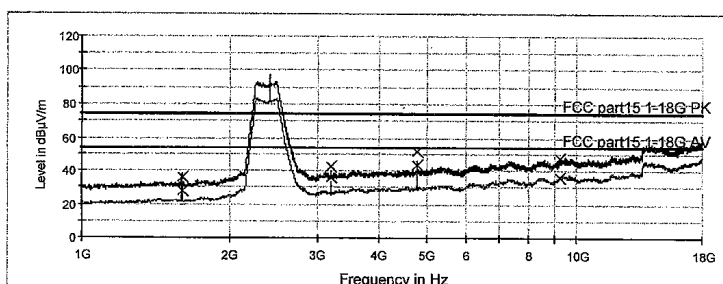
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1601.375000	36.2	-14.5	37.8	74.0	H
3203.625000	42.2	-9.8	31.8	74.0	H
4803.750000	51.6	-6.3	22.4	74.0	H
9247.125000	47.6	3.0	26.4	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1601.375000	27.9	-14.5	26.1	54.0	H
3203.625000	35.6	-9.8	18.4	54.0	H
4803.750000	43.4	-6.3	10.6	54.0	H
9247.125000	35.7	3.0	18.3	54.0	H

Date: 9/28/2011 - Time: 2:28:43

Tested by:  Reviewed by: _____

Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

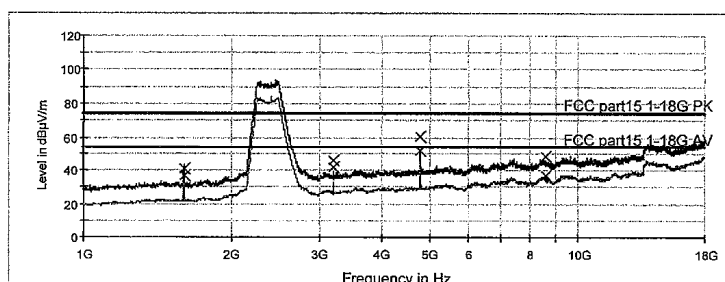
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK* (dB)	Limit-PK* (dBµV/m)	Polarization
1601.375000	40.8	-14.5	35.2	74.0	V
3203.625000	45.9	-9.8	28.1	74.0	V
4803.750000	60.1	-6.3	13.9	74.0	V
8609.625000	47.8	2.0	26.2	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
1601.375000	36.6	-14.5	17.4	54.0	V
3203.625000	41.5	-9.8	12.5	54.0	V
4803.750000	50.7	-6.3	3.3	54.0	V
8609.625000	36.4	2.0	17.6	54.0	V



Date: 9/28/2011 - Time: 2:23:45

Tested by:  Reviewed by: _____

Figure 9: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

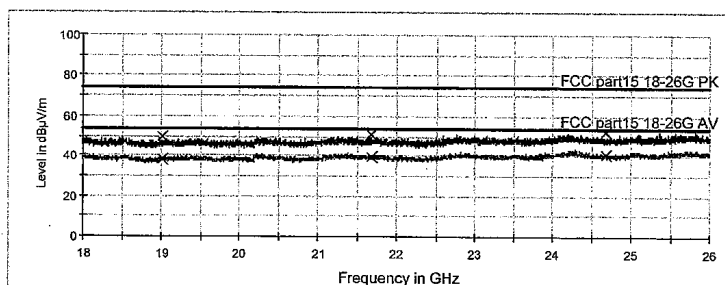
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
19010.000000	49.9	3.5	24.1	74.0	H
21680.000000	51.0	4.2	23.0	74.0	H
24681.000000	52.3	5.1	21.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19010.000000	38.2	3.5	15.8	54.0	H
21680.000000	39.5	4.2	14.5	54.0	H
24681.000000	40.6	5.1	13.4	54.0	H

Date: 9/27/2011 - Time: 3:12:37

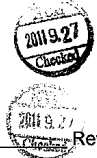
Tested by:  Reviewed by: _____

Figure 10: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

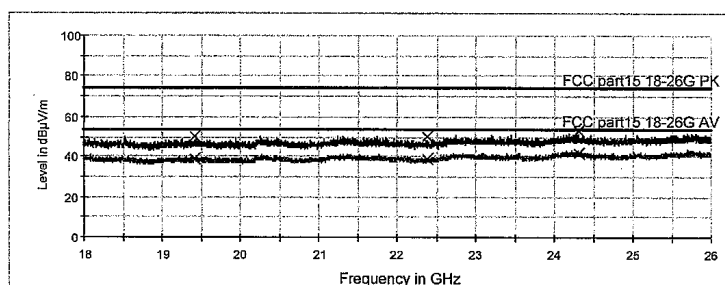
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19420.000000	50.7	3.6	23.3	74.0	V
22392.000000	50.4	4.4	23.6	74.0	V
24311.000000	53.2	4.9	20.8	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19420.000000	38.4	3.6	15.6	54.0	V
22392.000000	38.7	4.4	15.3	54.0	V
24311.000000	41.5	4.9	12.5	54.0	V



Date: 9/27/2011 - Time: 3:21:48

Tested by:  Reviewed by: _____

Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

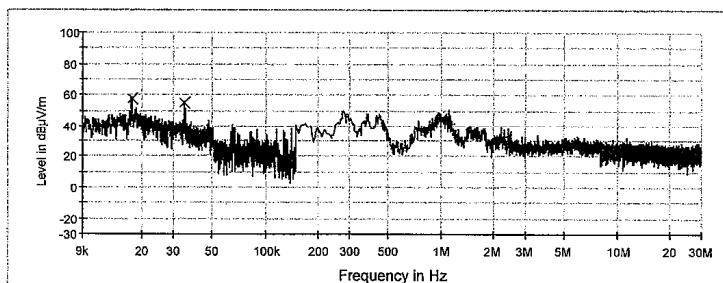
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ Middle Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
1.110000	41.7	---	20.3	H
2.202000	32.4	---	20.2	H
0.017400	---	57.1	20.7	H
0.034920	---	55.2	20.2	H



Date: 25/09/2011 - Time: 16:17:21

Tested by:  Reviewed by: _____



Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

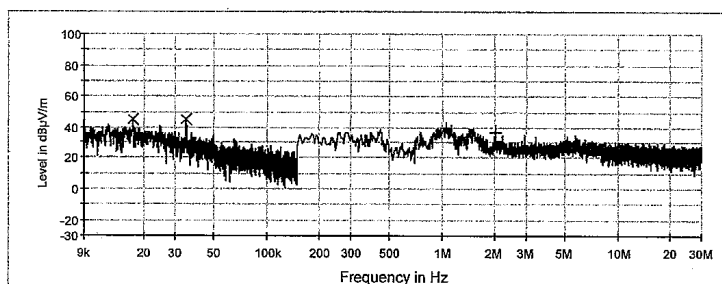
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr (dB)	Polarization
1.062000	40.2	---	20.3	V
2.018000	36.7	---	20.2	V
0.017160	---	45.3	20.6	V
0.034920	---	44.8	20.2	V



Date: 25/09/2011 - Time: 16:08:24

Tested by:  Reviewed by: _____

Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

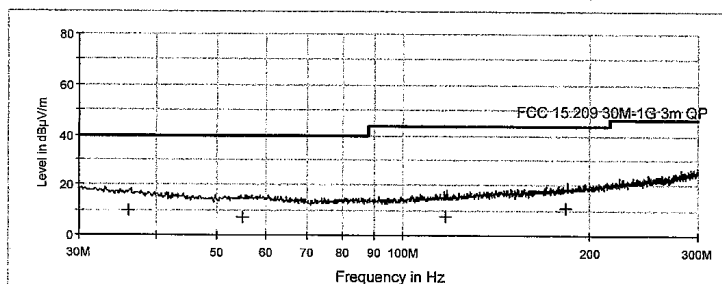
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr: (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
38.100000	9.9	13.2	30.1	40.0	H
55.100000	7.2	10.9	32.8	40.0	H
117.100000	7.4	11.5	36.1	43.5	H
184.150000	10.8	15.2	32.7	43.5	H

Date: 9/26/2011 - Time: 2:43:34

Tested by  Reviewed by: _____

Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

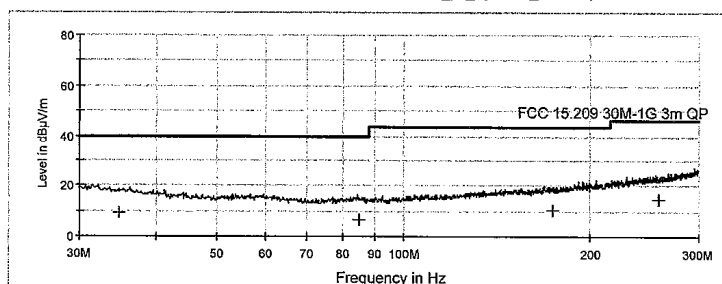
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit QPK (dBuV/m)	Polarization
34.750000	9.3	13.6	30.7	40.0	V
84.950000	6.5	10.5	33.5	40.0	V
174.450000	10.3	14.6	33.2	43.5	V
258.150000	14.9	19.1	31.1	46.0	V



Date: 9/26/2011 - Time: 2:36:51

Tested by:  Reviewed by: _____

Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

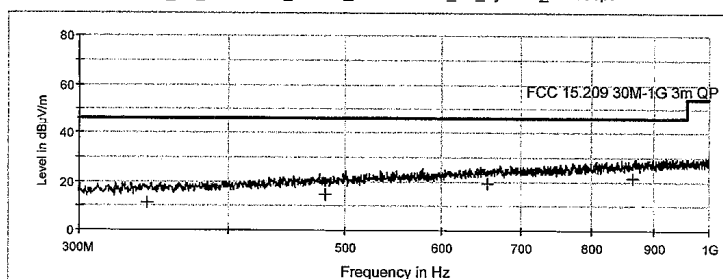
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit : QPK (dBuV/m)	Polarization
342.000000	11.5	15.5	34.5	46.0	H
481.980000	14.7	18.6	31.3	46.0	H
656.640000	19.2	21.9	26.8	46.0	H
866.280000	21.4	24.5	24.6	46.0	H

Date: 9/27/2011 - Time: 10:54:00

Tested by: 
 Reviewed by: _____

Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

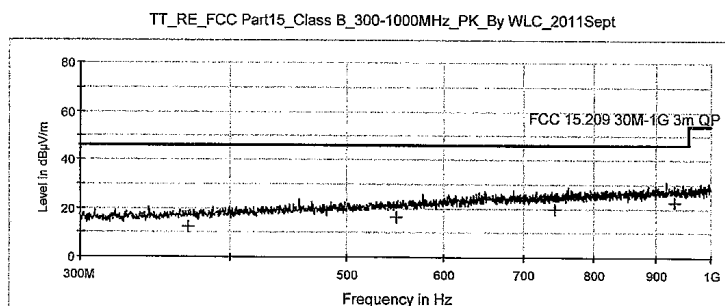
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502. [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit: QPK (dBuV/m)	Polarization
369.660000	12.3	16.2	33.7	46.0	V
548.880000	16.1	19.8	29.9	46.0	V
742.080000	19.9	22.8	26.1	46.0	V
934.560000	22.3	25.3	23.7	46.0	V

Date: 9/27/2011 - Time: 11:02:56

Tested by:  Reviewed by: _____

Figure 17: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

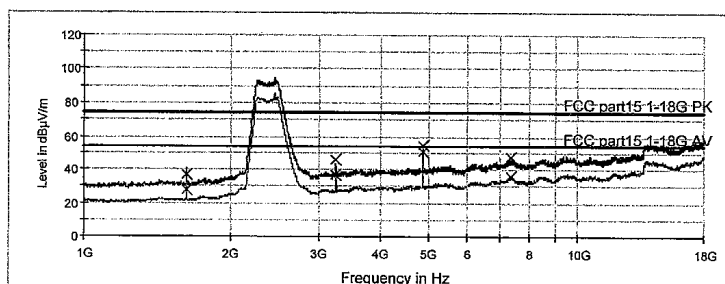
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1626.875000	36.5	-14.2	37.5	74.0	H
3252.500000	45.9	-9.1	28.2	74.0	H
4882.375000	54.4	-6.5	19.6	74.0	H
7358.000000	47.3	-0.3	26.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1626.875000	27.4	-14.2	26.6	54.0	H
3252.500000	36.6	-9.1	17.4	54.0	H
4882.375000	50.6	-6.5	3.4	54.0	H
7358.000000	35.7	-0.3	18.3	54.0	H

Date: 9/28/2011 - Time: 2:09:55

Tested by:  9.28 Reviewed by: _____

Figure 18: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

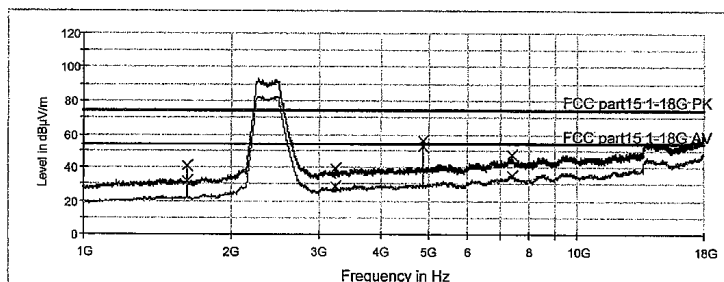
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Mid Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK (dB)	Limit-PK* (dBµV/m)	Polarization
1624.750000	41.1	-14.2	32.9	74.0	V
3252.500000	39.4	-9.1	34.6	74.0	V
4880.250000	56.6	-6.6	17.4	74.0	V
7387.750000	47.2	-0.3	26.8	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
1624.750000	31.5	-14.2	22.5	54.0	V
3252.500000	28.9	-9.1	25.1	54.0	V
4880.250000	50.8	-6.6	3.2	54.0	V
7387.750000	35.2	-0.3	18.8	54.0	V



Date: 9/28/2011 - Time: 2:16:45

Tested by:  Reviewed by: _____

Figure 19: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

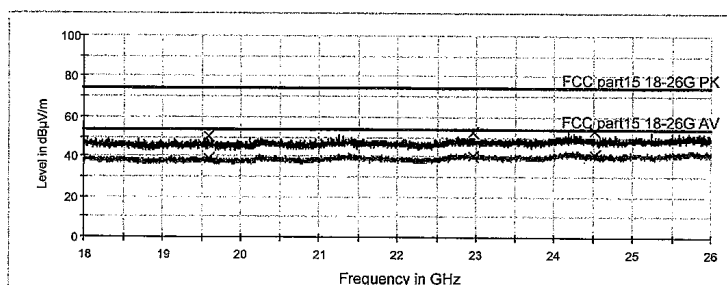
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19590.000000	50.6	3.6	23.4	74.0	H
22957.000000	52.1	4.6	21.9	74.0	H
24524.000000	52.8	5.1	21.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19590.000000	38.7	3.6	15.3	54.0	H
22957.000000	40.2	4.6	13.8	54.0	H
24524.000000	40.5	5.1	13.5	54.0	H

Date: 9/27/2011 - Time: 3:10:40

Tested by:  Reviewed by: _____

Figure 20: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 26GHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

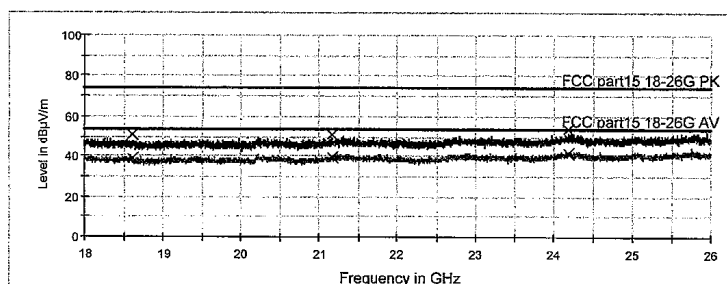
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK* (dB)	Limit - PK* (dBuV/m)	Polarization
18616.000000	50.9	3.3	23.1	74.0	V
21176.000000	51.3	4.1	22.7	74.0	V
24200.000000	53.5	4.9	20.5	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
18616.000000	38.7	3.3	15.3	54.0	V
21176.000000	39.5	4.1	14.5	54.0	V
24200.000000	41.6	4.9	12.4	54.0	V

Date: 9/27/2011 - Time: 3:23:26

Tested by:  2011.9.27
Reviewed by: _____

Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

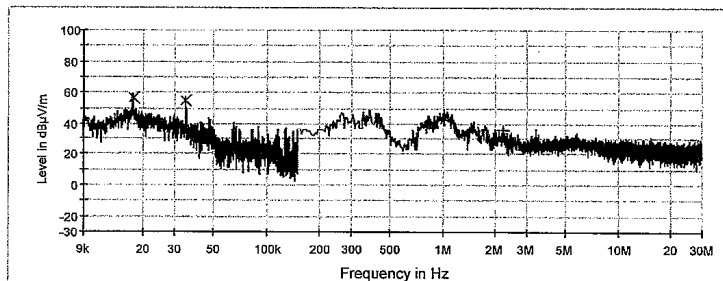
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
1.022000	42.8	---	20.3	H
2.206000	35.0	---	20.2	H
0.017400	---	57.0	20.7	H
0.034920	---	55.3	20.2	H



Date: 25/09/2011 - Time: 16:42:12

Tested by: _____ Reviewed by: _____

Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

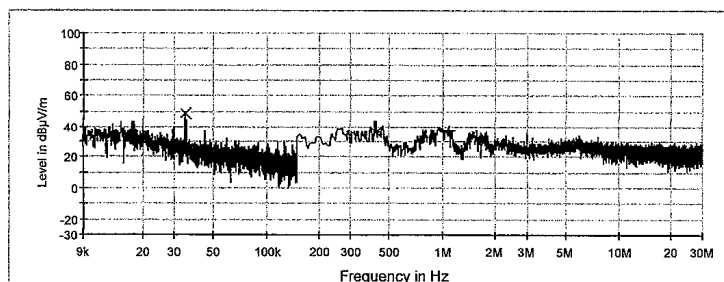
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
1.102000	37.3	---	20.3	V
5.914000	29.5	---	21.9	V
0.034920	---	48.7	20.2	V
0.422000	---	36.5	20.7	V



Date: 25/09/2011 - Time: 16:36:12

Tested by:  Reviewed by: _____

Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

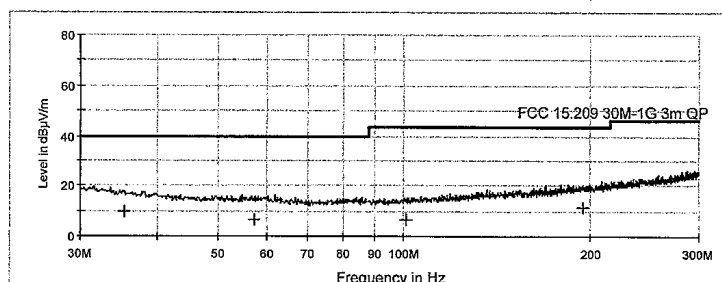
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502. [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
35.250000	9.6	13.5	30.4	40.0	V
57.250000	6.6	11.0	33.4	40.0	V
101.000000	6.6	10.7	36.9	43.5	V
194.950000	11.5	16.0	32.0	43.5	V



Date: 9/26/2011 - Time: 2:54:28

Tested by: Reviewed by:

Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

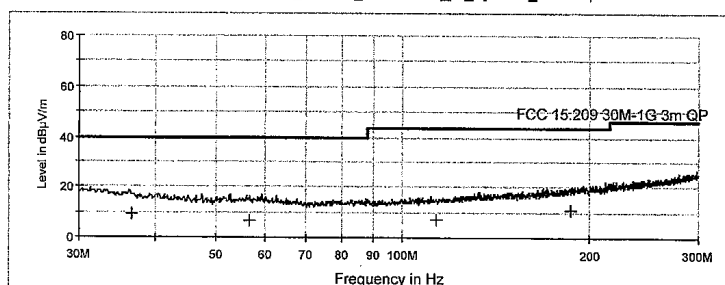
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
36.600000	9.5	13.1	30.5	40.0	H
56.750000	6.7	11.0	33.3	40.0	H
113.450000	7.3	11.4	36.2	43.5	H
187.300000	11.0	15.6	32.5	43.5	H



Date: 9/26/2011 - Time: 2:51:14

Tested by:  Reviewed by: _____

Figure 25: Test figure of spurious emissions, mode A.3, Horizontal polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

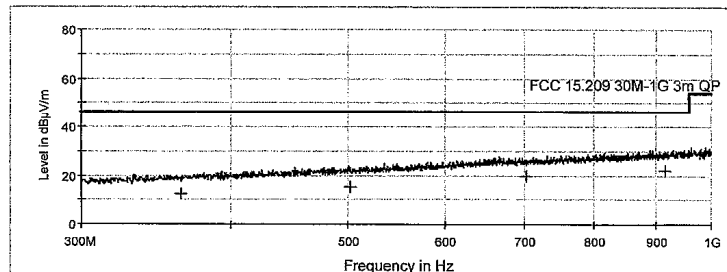
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C, 50 %RH, 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
363.720000	12.2	16.0	33.8	46.0	H
501.600000	15.1	18.9	30.9	46.0	H
703.560000	19.6	22.4	26.4	46.0	H
916.680000	22.1	25.1	23.9	46.0	H



Date: 9/27/2011 - Time: 10:51:42

Tested by: _____ Reviewed by: _____

Figure 26: Test figure of spurious emissions, mode A.3, Vertical polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

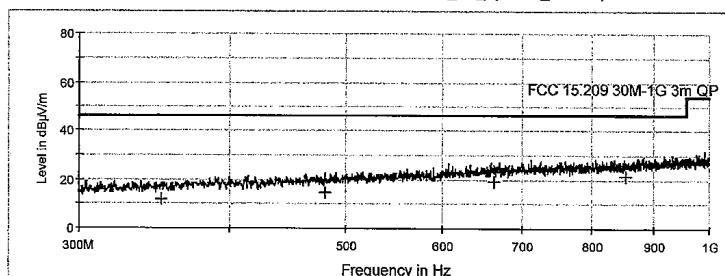
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
351.120000	11.7	15.7	34.3	46.0	V
480.600000	14.7	18.6	31.3	46.0	V
664.380000	19.2	22.0	26.8	46.0	V
853.380000	21.2	24.2	24.8	46.0	V

Date: 9/27/2011 - Time: 11:04:27

Tested  Reviewed by: _____

Figure 27: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

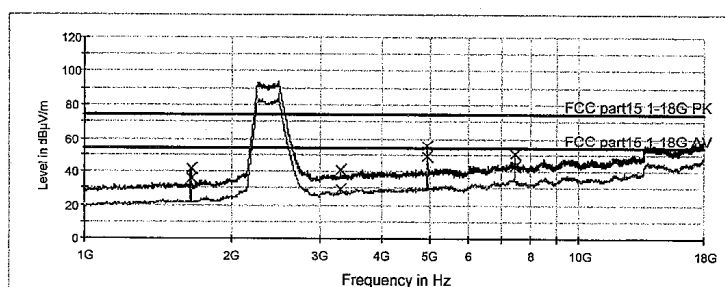
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502, [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin-PK+ (dB)	Limit-PK+ (dBµV/m)	Polarization
1652.375000	41.7	-14.1	32.3	74.0	H
3305.625000	40.8	-8.7	33.2	74.0	H
4958.875000	55.2	-6.7	18.8	74.0	H
7440.875000	51.0	0.3	23.0	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
1652.375000	36.1	-14.1	17.9	54.0	H
3305.625000	29.7	-8.7	24.3	54.0	H
4958.875000	49.3	-6.7	4.7	54.0	H
7440.875000	43.2	0.3	10.8	54.0	H



Date: 9/28/2011 - Time: 1:54:23

Tested by: _____ Reviewed by: _____

Figure 28: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

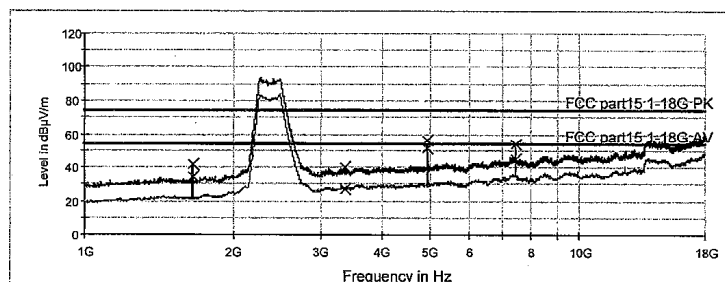
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK (dB)	Limit-PK (dBµV/m)	Polarization
1652.375000	41.6	-14.1	32.4	74.0	V
3365.125000	40.2	-8.7	33.8	74.0	V
4958.875000	56.2	-6.7	17.8	74.0	V
7440.875000	53.6	0.3	20.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
1652.375000	33.9	-14.1	20.1	54.0	V
3365.125000	27.2	-8.7	26.8	54.0	V
4958.875000	50.7	-6.7	3.7	54.0	V
7440.875000	44.8	0.3	9.2	54.0	V



Date: 9/28/2011 - Time: 1:46:39

Tested by:  Reviewed by: _____

Figure 29: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

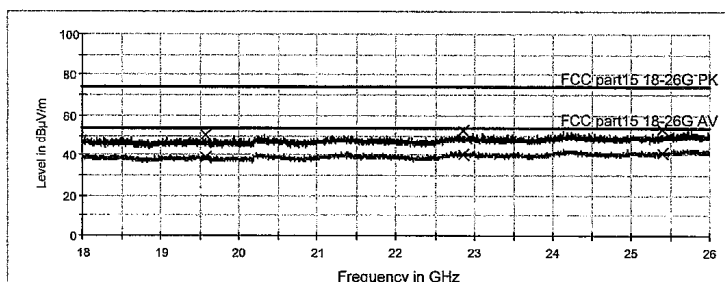
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502, [RX]
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ High Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	18GHz-26GHz
Frequency Range:	TUV 3160-09
Receiver:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09
Transducer:	

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK+ (dB)	Limit-PK+ (dBµV/m)	Polarization
19580.000000	50.3	3.6	23.7	74.0	H
22858.000000	52.3	4.6	21.7	74.0	H
25402.000000	52.8	5.2	21.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
19580.000000	38.6	3.6	15.4	54.0	H
22858.000000	40.4	4.6	13.6	54.0	H
25402.000000	40.5	5.2	13.5	54.0	H

Date: 9/27/2011 - Time: 3:14:20

Tested by:  Reviewed by: _____

**Figure 30: Test figure of spurious emissions, mode A.3, Vertical polarity
(18GHz – 26GHz), GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

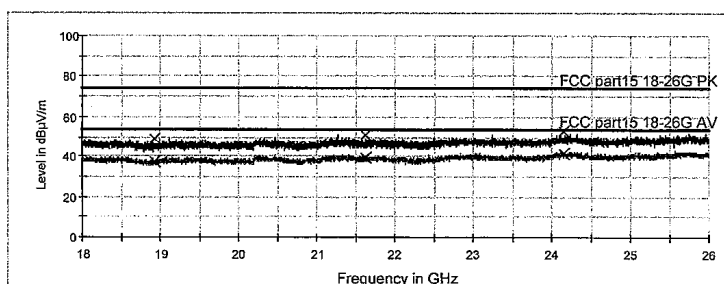
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK* (dB)	Limit - PK* (dBuV/m)	Polarization
18922.000000	49.1	3.5	24.9	74.0	V
21640.000000	51.0	4.2	23.0	74.0	V
24154.000000	53.4	4.9	20.6	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
18922.000000	37.6	3.5	16.4	54.0	V
21640.000000	39.3	4.2	14.7	54.0	V
24154.000000	41.4	4.9	12.6	54.0	V



Date: 9/27/2011 - Time: 3:19:55

Tested by:  Reviewed by: _____

Figure 31: Test figure of spurious emissions, mode B, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

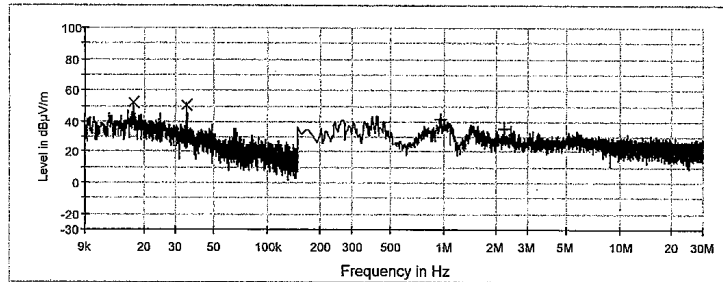
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr (dB)	Polarization
0.970000	41.6	---	20.3	H
2.206000	35.1	---	20.2	H
0.017160	---	51.9	20.6	H
0.034840	---	50.7	20.2	H



Date: 25/09/2011 - Time: 16:58:19

Tested by:  Reviewed by: _____

Figure 32: Test figure of spurious emissions, mode B, Vertical polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

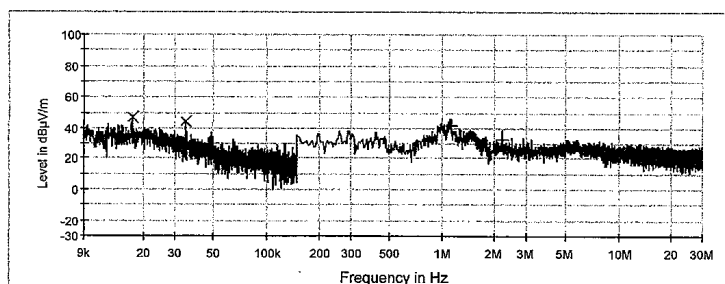
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr (dB)	Polarization
1.130000	41.6	---	20.3	V
2.206000	32.9	---	20.2	V
0.017160	---	46.7	20.6	V
0.034840	---	44.0	20.2	V



Date: 25/09/2011 - Time: 16:53:02

Tested by: _____ Reviewed by: _____

Figure 33: Test figure of spurious emissions, mode B, Horizontal polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

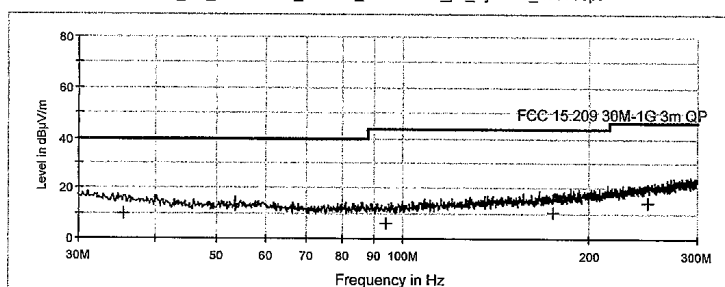
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
35.550000	9.8	13.4	30.2	40.0	H
94.000000	5.8	10.2	37.7	43.5	H
175.550000	10.2	14.6	33.3	43.5	H
249.250000	14.4	18.8	31.6	46.0	H



Date: 9/26/2011 - Time: 3:18:49

Tested by:  Reviewed by: _____

**Figure 34: Test figure of spurious emissions, mode B, Vertical polarity
(30MHz – 300MHz), GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

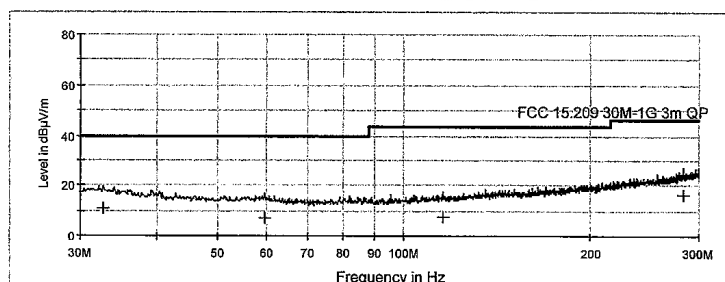
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
32.700000	10.7	14.1	29.3	40.0	V
59.700000	7.2	10.9	32.8	40.0	V
115.850000	7.6	11.5	35.9	43.5	V
283.650000	16.6	20.7	29.4	46.0	V



Date: 9/26/2011 - Time: 3:09:58

Tested by: _____ Reviewed by: _____

Figure 35: Test figure of spurious emissions, mode B, Horizontal polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

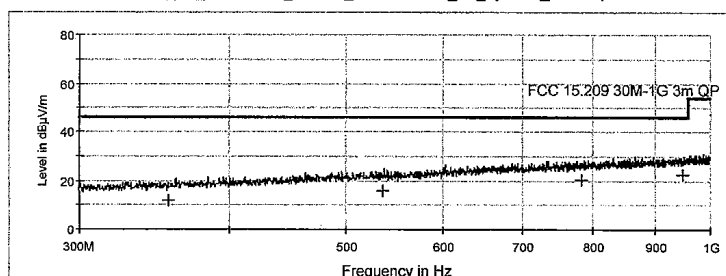
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
355.980000	11.9	15.8	34.1	46.0	H
535.920000	15.7	19.5	30.3	46.0	H
783.720000	20.4	23.4	25.6	46.0	H
949.260000	22.5	25.4	23.5	46.0	H

Date: 9/27/2011 - Time: 10:57:20

Tested by:   Reviewed by: _____

**Figure 36: Test figure of spurious emissions, mode B, Vertical polarity
(300MHz – 1GHz), GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

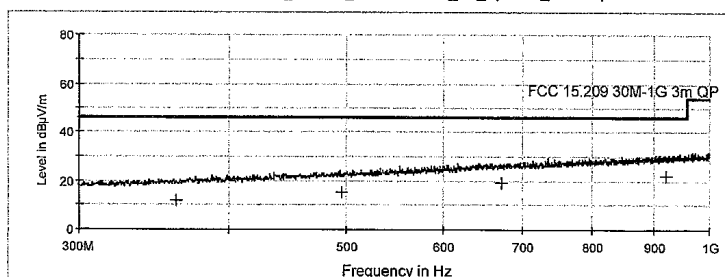
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Polarization
361.620000	12.0	18.0	34.0	46.0	V
495.660000	15.0	18.8	31.0	46.0	V
671.700000	19.2	22.1	26.8	46.0	V
922.680000	22.1	25.2	23.9	46.0	V



Date: 9/27/2011 - Time: 10:59:45

Tested by: _____ Reviewed by: _____

Figure 37: Test figure of spurious emissions, mode B, Horizontal polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

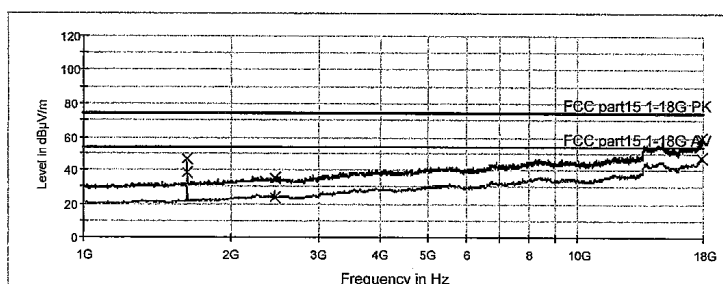
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1626.875000	46.8	-15.0	27.2	74.0	H
2440.750000	35.2	-12.6	38.6	74.0	H
17861.875000	59.2	10.5	14.8	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1626.875000	38.7	-15.0	15.3	54.0	H
2440.750000	23.3	-12.6	30.7	54.0	H
17861.875000	47.3	10.5	6.7	54.0	H



Date: 9/28/2011 - Time: 4:40:50

Tested by:  Reviewed by: _____

Figure 38: Test figure of spurious emissions, mode B, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

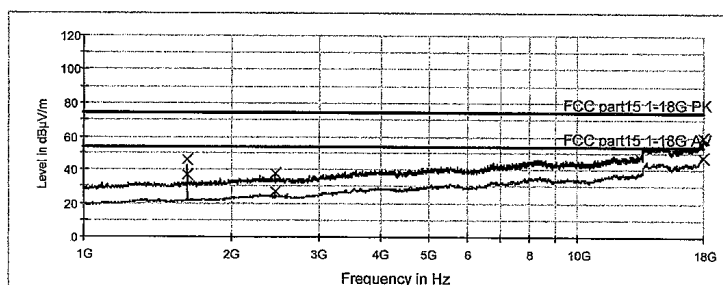
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit PK+ (dBµV/m)	Polarization
1626.875000	45.8	-15.0	28.2	74.0	V
2440.750000	37.2	-12.6	36.8	74.0	V
17953.250000	59.6	11.3	14.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AVG (dB)	Limit AVG (dBµV/m)	Polarization
1626.875000	36.6	-15.0	17.4	54.0	V
2440.750000	26.6	-12.6	27.4	54.0	V
17953.250000	47.2	11.3	6.8	54.0	V



Date: 9/28/2011 - Time: 4:45:50

Tested by:  Reviewed by: _____

Figure 39: Test figure of spurious emissions, mode B, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

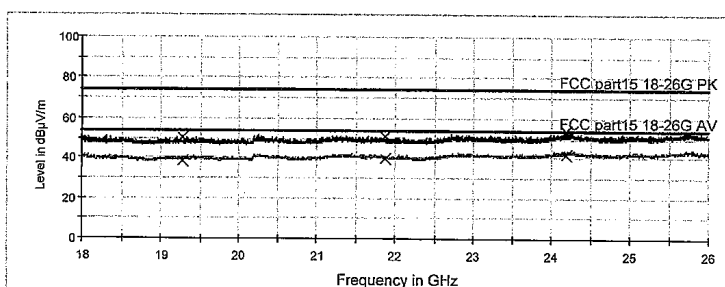
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
19286.000000	50.5	3.5	23.5	74.0	H
21879.000000	51.0	4.3	23.0	74.0	H
24189.000000	53.8	4.9	20.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19286.000000	38.4	3.5	15.6	54.0	H
21879.000000	39.3	4.3	14.7	54.0	H
24189.000000	41.7	4.9	12.3	54.0	H



Date: 9/27/2011 - Time: 3:03:21

Tested by:  Reviewed by: _____

**Figure 40: Test figure of spurious emissions, mode B, Vertical polarity
(18GHz – 26GHz), GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

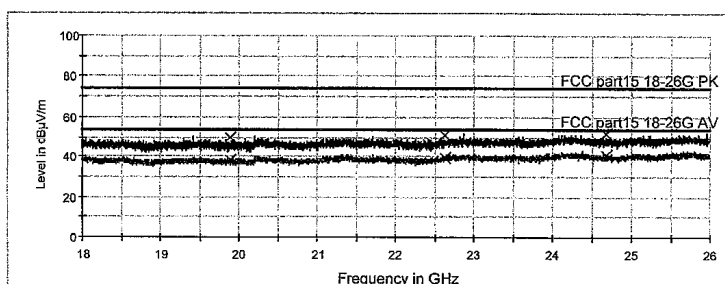
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
19894.000000	50.0	3.8	24.0	74.0	V
22627.000000	51.3	4.5	22.7	74.0	V
24681.000000	52.0	5.1	22.0	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19894.000000	38.0	3.8	16.0	54.0	V
22627.000000	39.5	4.5	14.5	54.0	V
24681.000000	40.6	5.1	13.4	54.0	V

Date: 9/27/2011 - Time: 3:25:01

Tested by:  Reviewed by: _____

Figure 41: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

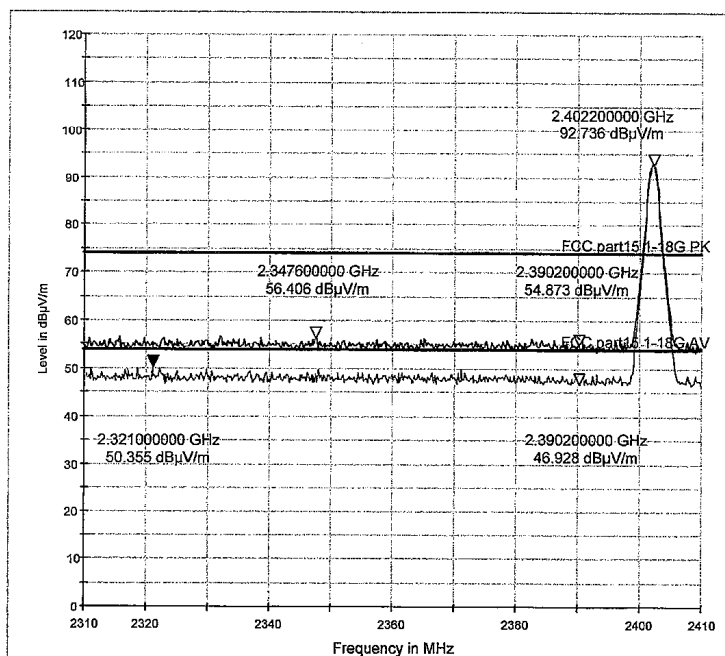
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 10:22:10

Tested by:  Reviewed by: _____

Figure 42: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

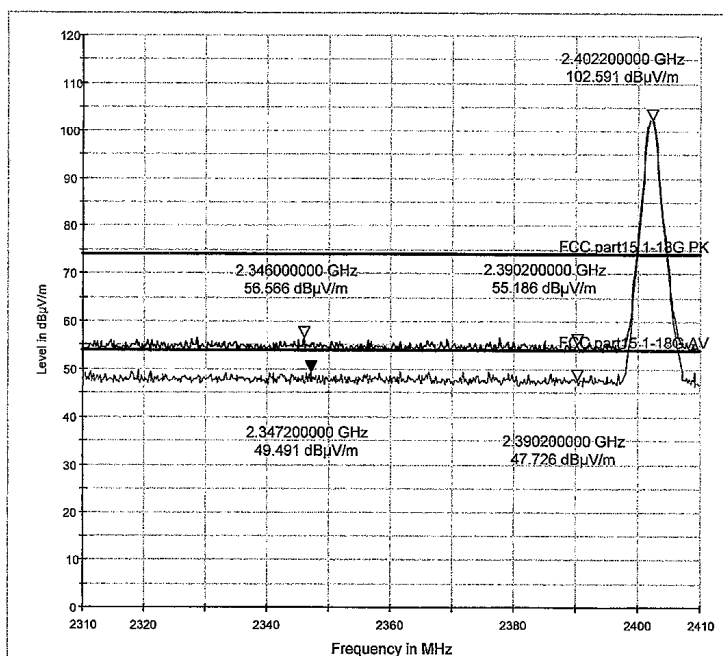
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 10:19:17

Tested by:  Reviewed by: 

Figure 43: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

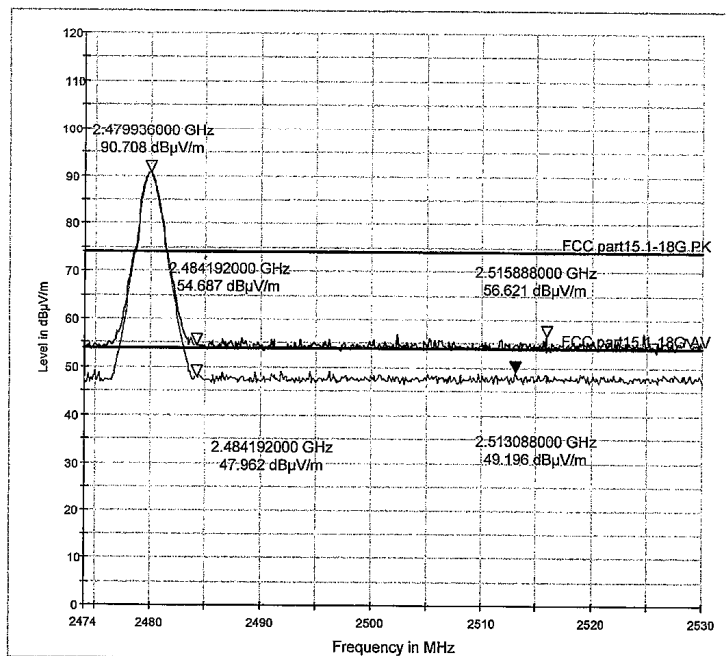
Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1

Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 10:27:31



Tested by: _____ Reviewed by: _____

Figure 44: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

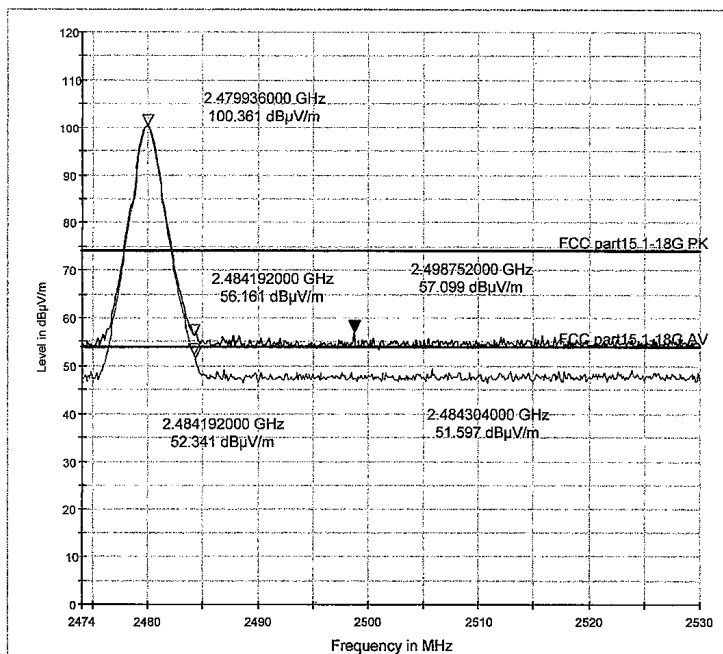
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 10:30:27

Tested by: _____ Reviewed by: _____

Figure 45: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

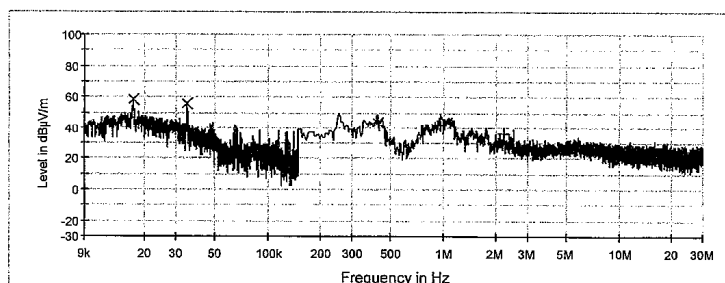
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.966000	41.9	---	20.3	H
2.210000	36.6	---	20.2	H
0.017160	---	58.1	20.6	H
0.034920	---	55.5	20.2	H
0.422000	---	43.5	20.7	H

Date: 25/09/2011 - Time: 14:50:21

Tested by:  2011.9.28
Reviewed by: _____

Figure 46: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

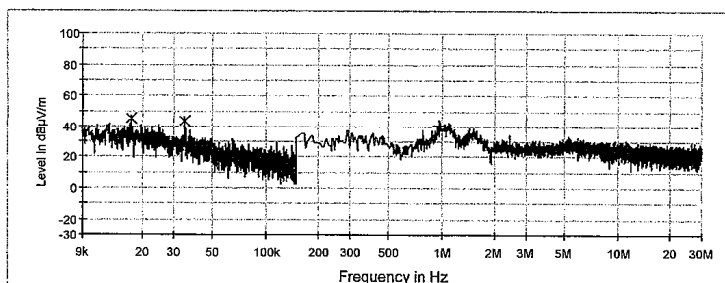
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.974000	40.5	---	20.3	V
5.218000	28.5	---	21.9	V
0.017160	---	44.9	20.6	V
0.034840	---	43.6	20.2	V

Date: 25/09/2011 - Time: 14:53:21

Tested by:   Reviewed by: _____

Figure 47: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

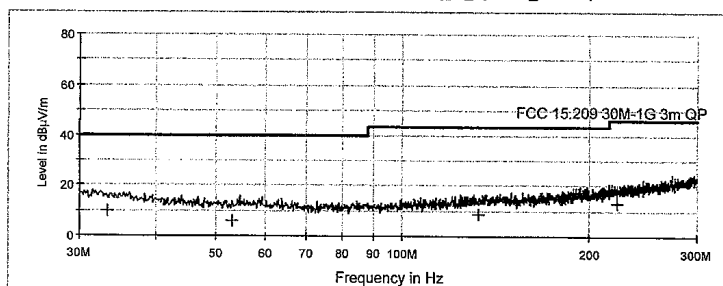
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
33.360000	9.9	14.0	30.1	40.0	H
53.100000	6.2	10.8	33.8	40.0	H
133.260000	8.6	12.5	34.9	43.5	H
223.320000	12.9	17.5	33.1	46.0	H

Date: 9/26/2011 - Time: 4:50:45



 Tested by: _____ Reviewed by: _____

Figure 48: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

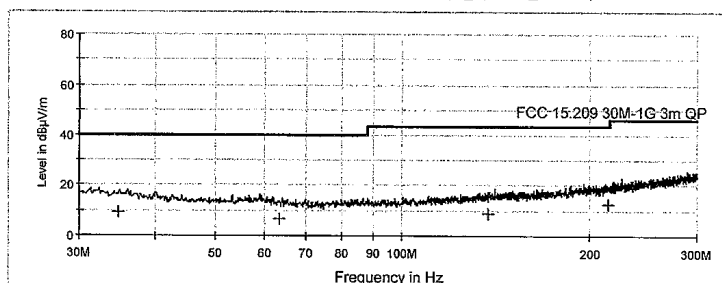
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502. [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

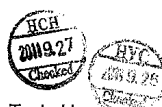
TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
34.860000	9.4	13.6	30.6	40.0	V
63.480000	6.6	10.2	33.4	40.0	V
138.000000	8.8	12.7	34.7	43.5	V
215.640000	12.3	16.9	31.2	43.5	V

Date: 9/26/2011 - Time: 4:46:05



Tested by: _____ Reviewed by: _____

Figure 49: Test figure of spurious emissions, mode A.1, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

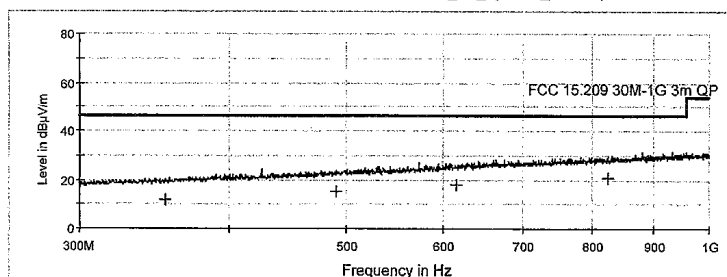
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

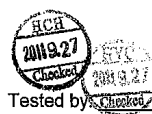
TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Polarization
354.240000	11.9	15.8	34.1	46.0	H
490.380000	15.1	18.7	30.9	46.0	H
617.100000	18.2	21.0	27.8	46.0	H
825.360000	21.0	23.9	25.0	46.0	H

Date: 9/27/2011 - Time: 10:38:38



Tested by: _____ Reviewed by: _____

Figure 50: Test figure of spurious emissions, mode A.1, Vertical polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

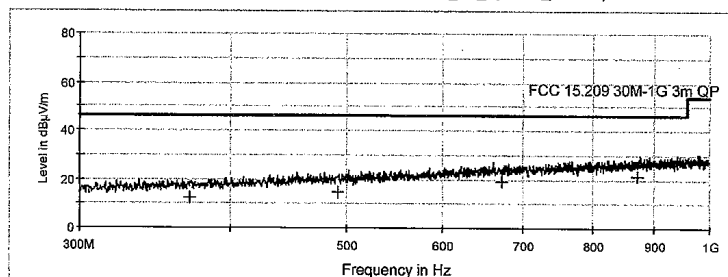
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit : QPK (dBµV/m)	Polarization
370.020000	12.2	16.2	33.8	46.0	V
492.180000	14.9	18.8	31.1	46.0	V
673.080000	19.4	22.1	26.6	46.0	V
871.920000	21.7	24.6	24.3	46.0	V

Date: 9/27/2011 - Time: 10:36:44



Reviewed by: _____

Figure 51: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

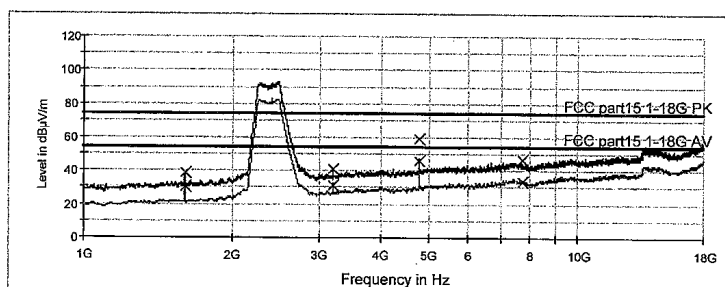
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
1601.375000	38.7	-14.6	35.3	74.0	H
3201.500000	41.0	-9.2	33.0	74.0	H
4803.750000	59.0	-5.9	15.0	74.0	H
7721.375000	46.3	0.4	27.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1601.375000	30.2	-14.6	23.8	54.0	H
3201.500000	31.0	-9.2	23.0	54.0	H
4803.750000	46.0	-5.9	8.0	54.0	H
7721.375000	33.3	0.4	20.7	54.0	H



Date: 9/28/2011 - Time: 12:05:10

Tested by: _____ Reviewed by: _____

Figure 52: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

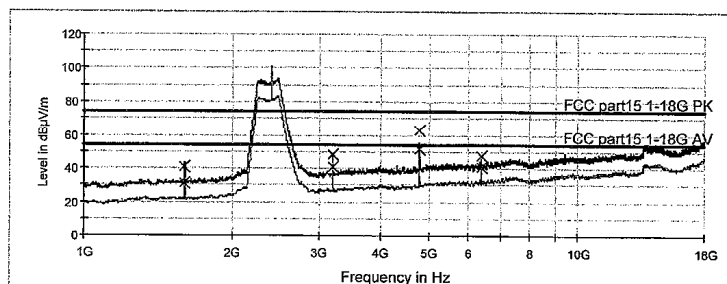
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1599.250000	40.7	-14.7	33.3	74.0	V
3201.500000	47.8	-9.2	26.2	74.0	V
4803.750000	62.8	-5.9	11.2	74.0	V
6406.000000	47.5	-2.3	26.5	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1599.250000	30.8	-14.7	23.2	54.0	V
3201.500000	41.1	-9.2	12.9	54.0	V
4803.750000	51.0	-5.9	3.0	54.0	V
6406.000000	40.8	-2.3	13.2	54.0	V



Date: 9/28/2011 - Time: 11:52:55

Tested by: _____ Reviewed by: _____

Figure 53: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

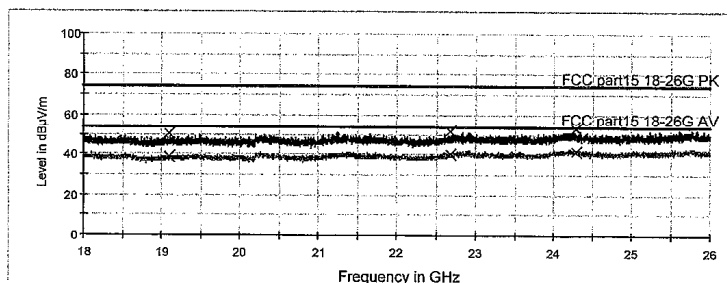
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK* (dB)	Limit - PK* (dBuV/m)	Polarization
19101.000000	50.1	3.5	23.9	74.0	H
22688.000000	51.5	4.5	22.5	74.0	H
24300.000000	53.2	4.9	20.8	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19101.000000	38.5	3.5	15.5	54.0	H
22688.000000	39.9	4.5	14.1	54.0	H
24300.000000	41.8	4.9	12.2	54.0	H



Date: 9/27/2011 - Time: 2:56:58

Tested by: Reviewed by:

Figure 54: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 26GHz), V Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

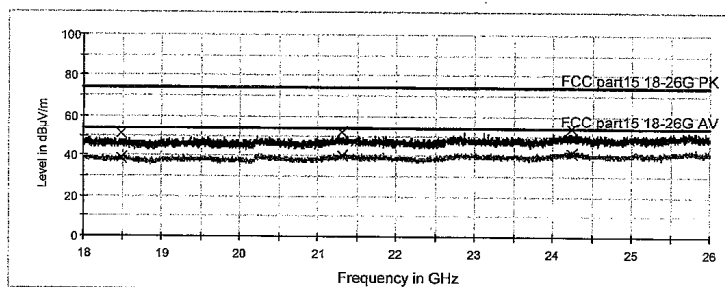
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin-PK+ (dB)	Limit-PK+ (dBuV/m)	Polarization
18498.000000	51.1	3.3	22.9	74.0	V
21320.000000	51.7	4.2	22.3	74.0	V
24248.000000	53.5	4.9	20.5	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBuV/m)	Polarization
18498.000000	38.8	3.3	15.2	54.0	V
21320.000000	39.9	4.2	14.1	54.0	V
24248.000000	41.8	4.9	12.2	54.0	V

Date: 9/27/2011 - Time: 2:44:44

Tested by:  2011.9.27
Checked by:  2011.9.27
Reviewed by: _____

Figure 55: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

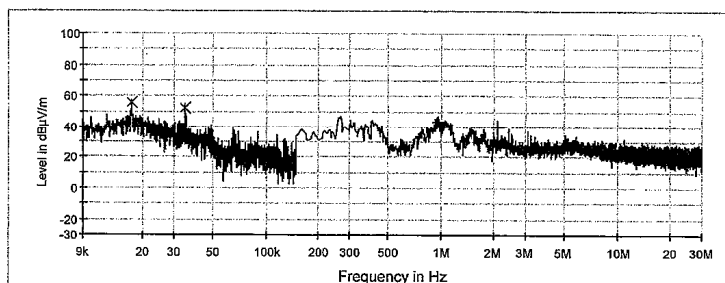
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ Middle Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.958000	43.1	---	20.3	H
2.110000	40.3	---	20.2	H
0.017160	---	55.4	20.6	H
0.034920	---	52.6	20.2	H

Date: 25/09/2011 - Time: 14:26:33

Tested by:  Reviewed by: _____

Figure 56: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

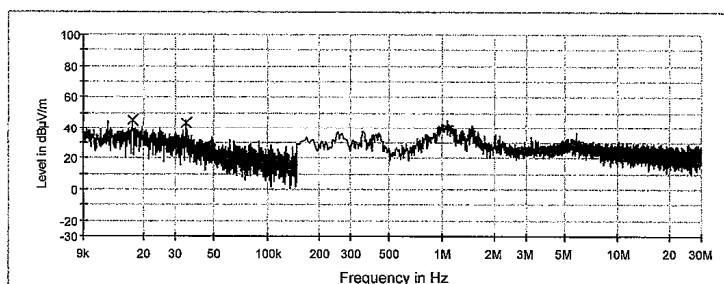
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
1.074000	41.2	---	20.3	V
5.810000	31.0	---	21.9	V
0.017160	---	45.1	20.6	V
0.034840	---	43.7	20.2	V

Date: 25/09/2011 - Time: 14:31:33

Tested by:   Reviewed by: _____

Figure 57: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

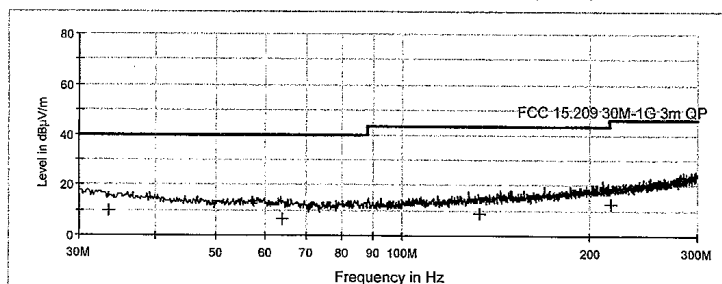
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502. [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
33.540000	9.6	13.9	30.4	40.0	H
64.140000	6.4	10.2	33.6	40.0	H
132.900000	8.6	12.5	34.9	43.5	H
217.140000	12.6	17.1	33.4	46.0	H

Date: 9/26/2011 - Time: 4:12:37



Tested by: _____ Reviewed by: _____

Figure 58: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

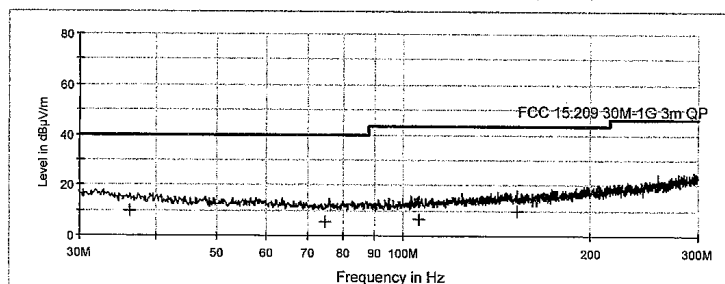
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
36.240000	9.7	13.2	30.3	40.0	V
74.940000	5.6	9.8	34.4	40.0	V
106.260000	6.7	11.1	36.8	43.5	V
152.700000	9.6	13.6	33.9	43.5	V

Date: 9/26/2011 - Time: 4:00:43



Tested by: _____ Reviewed by: _____

Figure 59: Test figure of spurious emissions, mode A.2, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

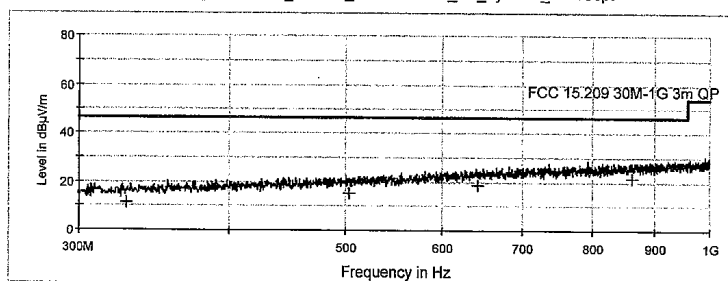
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
328.680000	11.2	15.2	34.8	46.0	H
502.980000	15.1	18.9	30.9	46.0	H
643.380000	18.8	21.6	27.2	46.0	H
863.520000	21.4	24.4	24.6	46.0	H

Date: 9/27/2011 - Time: 10:43:41



Tested by: _____ Reviewed by: _____

Figure 60: Test figure of spurious emissions, mode A.2, Vertical polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

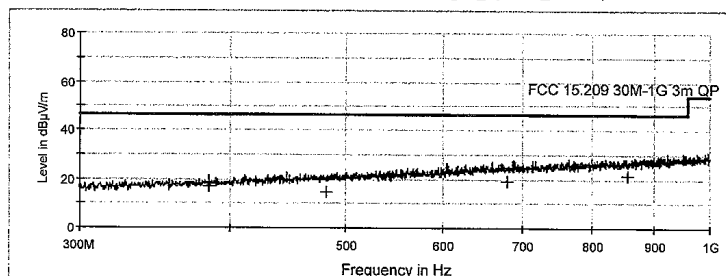
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502. [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Polarization
384.000000	16.8	16.5	29.2	46.0	V
481.320000	14.7	18.6	31.3	46.0	V
680.100000	19.3	22.2	26.7	46.0	V
855.780000	21.2	24.3	24.8	46.0	V

Date: 9/27/2011 - Time: 10:33:12



Tested by: _____ Reviewed by: _____

Figure 61: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

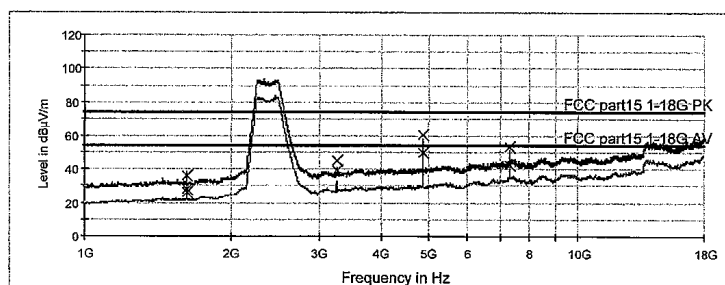
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK (dB)	Limit PK (dBµV/m)	Polarization
1626.875000	36.0	-14.2	38.0	74.0	H
1626.875000	36.2	-14.2	37.8	74.0	H
3254.625000	44.5	-9.1	29.5	74.0	H
4882.375000	60.2	-6.5	13.8	74.0	H
7321.875000	53.3	-0.4	20.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AV (dB)	Limit AV (dBµV/m)	Polarization
1626.875000	26.3	-14.2	27.7	54.0	H
1626.875000	27.4	-14.2	26.6	54.0	H
3254.625000	38.8	-9.1	15.2	54.0	H
4882.375000	50.9	-6.5	3.1	54.0	H
7321.875000	42.1	-0.4	11.9	54.0	H



Date: 9/28/2011 - Time: 1:11:05

Tested by: _____ Reviewed by: _____

Figure 62: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

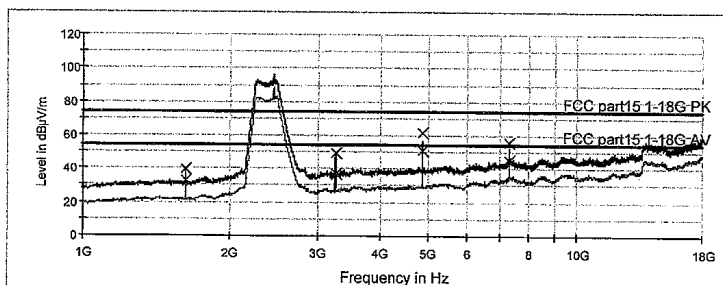
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK* (dB)	Limit-PK* (dBµV/m)	Polarization
1626.875000	38.9	-14.2	35.1	74.0	V
3254.625000	48.7	-9.1	25.3	74.0	V
4882.375000	61.2	-6.5	12.8	74.0	V
7321.875000	55.5	-0.4	18.5	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
1626.875000	32.5	-14.2	21.5	54.0	V
3254.625000	36.6	-9.1	17.4	54.0	V
4882.375000	50.4	-6.5	3.6	54.0	V
7321.875000	44.9	-0.4	9.1	54.0	V



Date: 9/28/2011 - Time: 1:02:06

Tested by: _____ Reviewed by: _____

Figure 63: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

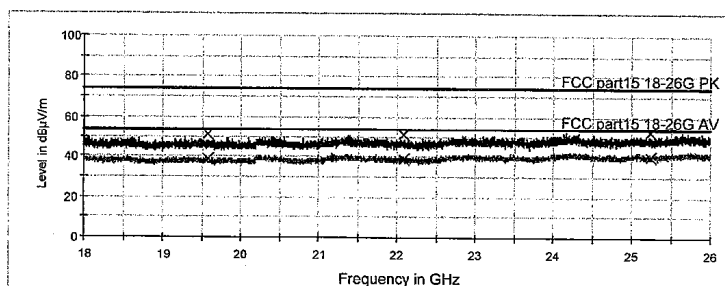
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK* (dB)	Limit - PK* (dBµV/m)	Polarization
19585.00000	51.0	3.6	23.0	74.0	H
22091.00000	51.0	4.3	23.0	74.0	H
25253.00000	52.2	6.0	21.8	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19585.00000	38.6	3.6	15.4	54.0	H
22091.00000	38.8	4.3	15.2	54.0	H
25253.00000	40.5	6.0	13.5	54.0	H



Date: 9/27/2011 - Time: 2:55:16

Tested by: _____ Reviewed by: _____

Figure 64: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

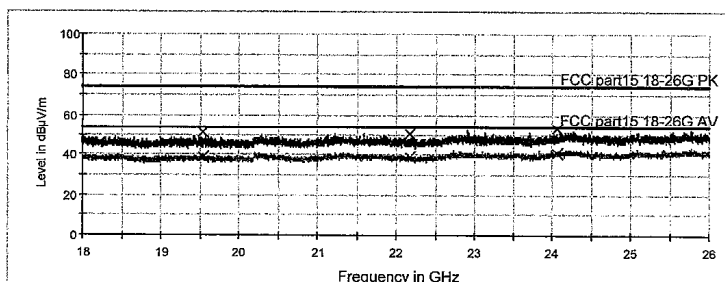
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK* (dB)	Limit - PK* (dBuV/m)	Polarization
19543.000000	50.9	3.6	23.1	74.0	V
22174.000000	50.7	4.4	23.3	74.0	V
24065.000000	52.8	4.9	21.2	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19543.000000	38.7	3.6	15.3	54.0	V
22174.000000	38.5	4.4	15.5	54.0	V
24065.000000	41.0	4.9	13.0	54.0	V

Date: 9/27/2011 - Time: 2:42:35



Tested by:



Reviewed by: _____

Figure 65: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

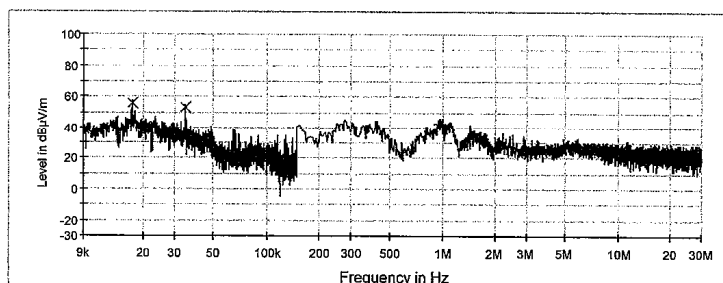
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ High Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.974000	42.2	---	20.3	H
5.846000	28.2	---	21.9	H
0.017160	---	55.4	20.6	H
0.034840	---	53.2	20.2	H



Date: 25/09/2011 - Time: 14:36:43

Tested by: _____ Reviewed by: _____

Figure 66: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

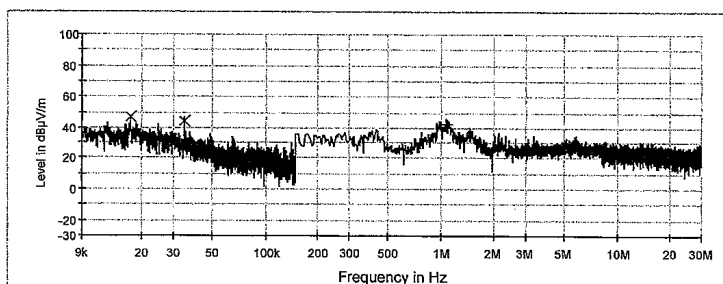
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
1.086000	42.6	---	20.3	V
5.866000	28.4	---	21.9	V
0.017160	---	46.9	20.6	V
0.034840	---	44.6	20.2	V



Date: 25/09/2011 - Time: 14:43:21

Tested by: _____ Reviewed by: _____

Figure 67: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

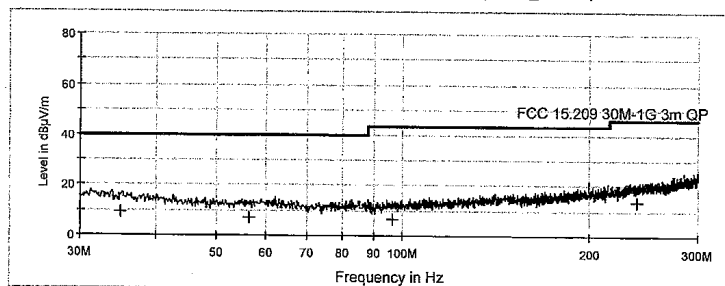
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBuV/m)	Polarization
34.980000	9.4	13.6	30.6	40.0	H
56.460000	6.9	11.0	33.1	40.0	H
96.420000	6.3	10.3	37.2	43.5	H
240.060000	13.5	18.2	32.5	46.0	H

Date: 9/26/2011 - Time: 4:16:26



Tested by: _____ Reviewed by: _____

Figure 68: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

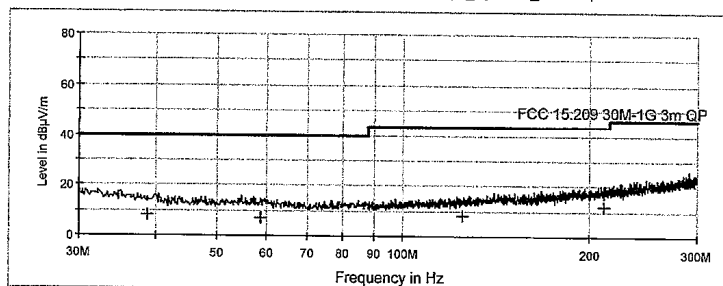
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
38.760000	8.3	12.5	31.7	40.0	V
58.740000	7.2	11.0	32.8	40.0	V
125.160000	7.9	12.0	35.6	43.5	V
211.980000	12.0	16.6	31.5	43.5	V

Date: 9/26/2011 - Time: 4:43:46



Tested by:  Reviewed by: _____

Figure 69: Test figure of spurious emissions, mode A.3, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

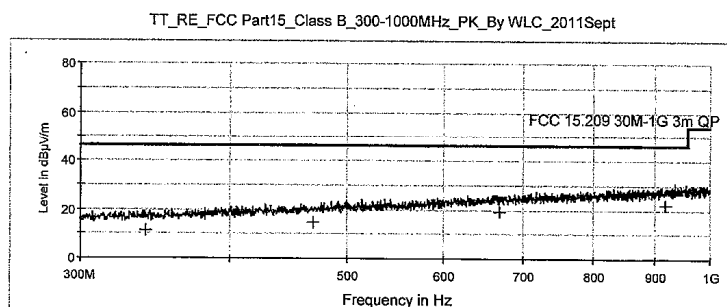
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502, [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
340.620000	11.5	15.4	34.5	46.0	H
469.080000	14.5	18.4	31.5	46.0	H
668.880000	19.3	22.1	26.7	46.0	H
919.140000	22.1	25.2	23.9	46.0	H

Date: 9/27/2011 - Time: 10:45:11



Tested by: 2011.9.27



Reviewed by: _____

Figure 70: Test figure of spurious emissions, mode A.3, Vertical polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

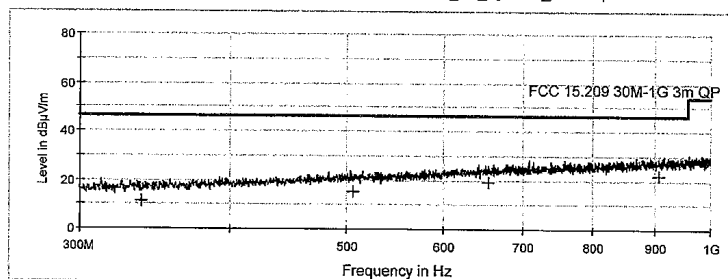
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 ,[RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
337.800000	11.5	15.4	34.5	46.0	V
505.800000	15.5	19.0	30.5	46.0	V
654.180000	19.1	21.9	26.9	46.0	V
907.980000	22.0	25.0	24.0	46.0	V

Date: 9/27/2011 - Time: 10:35:01



Tested by: _____ Reviewed by: _____

Figure 71: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

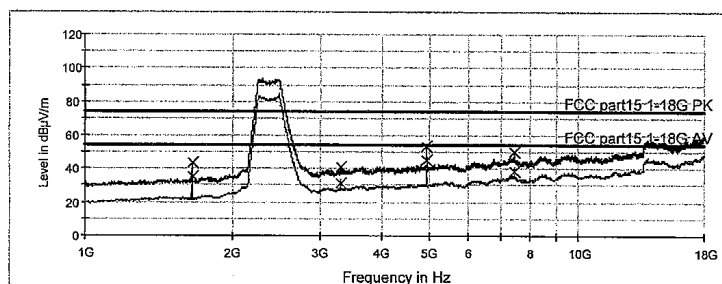
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077-001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr (dB)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
1652.375000	43.2	-14.1	30.8	74.0	H
3305.625000	40.6	-8.7	33.4	74.0	H
4958.875000	53.2	-6.7	20.8	74.0	H
7440.875000	49.8	0.3	24.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1652.375000	35.5	-14.1	18.5	54.0	H
3305.625000	31.2	-8.7	22.8	54.0	H
4958.875000	44.7	-6.7	9.3	54.0	H
7440.875000	38.2	0.3	15.8	54.0	H



Date: 9/28/2011 - Time: 1:20:37

Tested by:  Reviewed by: _____

Figure 72: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

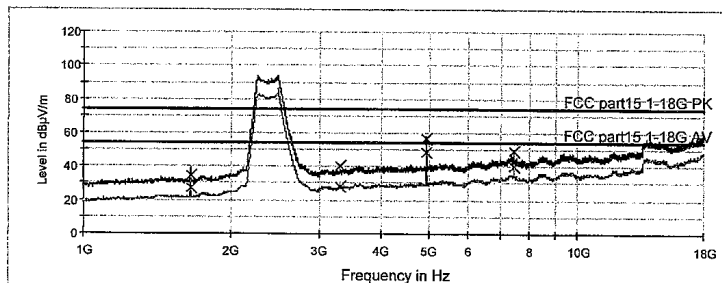
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1652.375000	34.2	-14.1	39.8	74.0	V
3305.625000	39.9	-8.7	34.1	74.0	V
4958.875000	56.6	-6.7	17.4	74.0	V
7440.875000	48.8	0.3	25.2	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1652.375000	26.6	-14.1	27.4	54.0	V
3305.625000	27.6	-8.7	26.4	54.0	V
4958.875000	48.0	-6.7	6.0	54.0	V
7440.875000	40.0	0.3	14.0	54.0	V



Date: 9/28/2011 - Time: 1:33:14

Tested by: _____ Reviewed by: _____

Figure 73: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

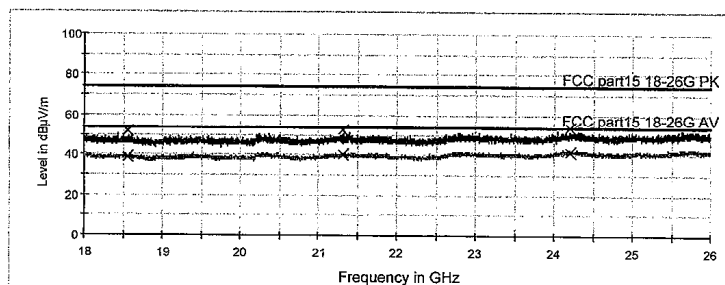
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK* (dB)	Limit - PK* (dBµV/m)	Polarization
18555.000000	51.4	3.3	22.6	74.0	H
21311.000000	52.1	4.2	21.9	74.0	H
24211.000000	53.5	4.9	20.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
18555.000000	38.9	3.3	15.1	54.0	H
21311.000000	40.0	4.2	14.0	54.0	H
24211.000000	41.8	4.9	12.2	54.0	H

Date: 9/27/2011 - Time: 2:58:43



Tested by: _____ Reviewed by: _____

**Figure 74: Test figure of spurious emissions, mode A.3, Vertical polarity
(18GHz – 26GHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

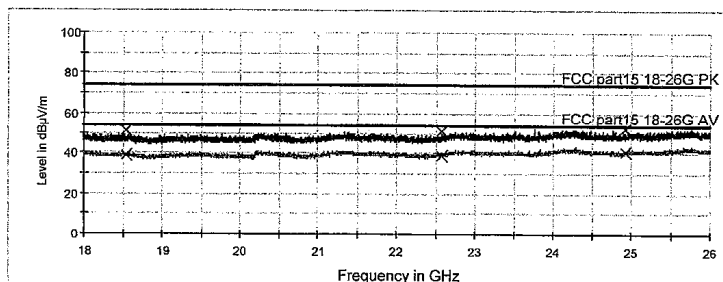
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin- PK+ (dB)	Limit- PK+ (dBuV/m)	Polarization
18536.000000	51.2	3.3	22.8	74.0	V
22579.000000	51.3	4.4	22.7	74.0	V
24935.000000	52.3	5.5	21.7	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin- AVG (dB)	Limit- AVG (dBuV/m)	Polarization
18536.000000	38.9	3.3	15.1	54.0	V
22579.000000	39.0	4.4	15.0	54.0	V
24935.000000	40.8	5.5	13.2	54.0	V



Date: 9/27/2011 - Time: 2:46:29

Tested by:  Reviewed by: _____

Figure 75: Test figure of spurious emissions, mode B, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

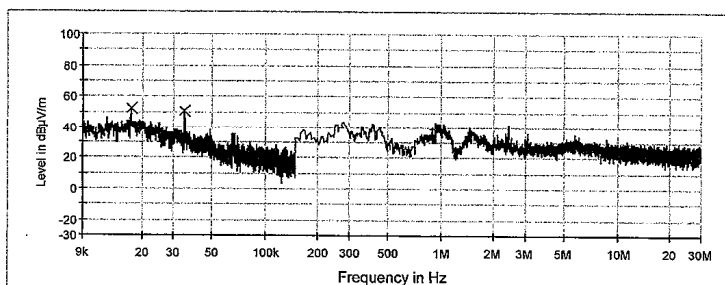
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Rx @ Middle Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.938000	38.7	---	20.3	H
2.398000	30.2	---	20.3	H
0.017160	---	51.9	20.6	H
0.034840	---	50.8	20.2	H



Date: 25/09/2011 - Time: 14:59:14

Tested by:  Reviewed by: _____

**Figure 76: Test figure of spurious emissions, mode B, Vertical polarity
(9kHz – 30MHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

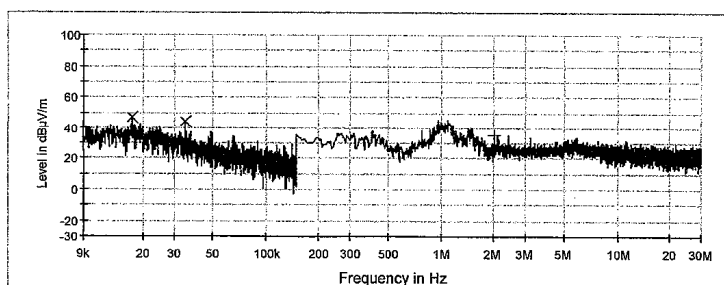
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
1.098000	41.7	---	20.3	V
2.010000	35.6	---	20.2	V
0.017160	---	46.8	20.6	V
0.034840	---	44.7	20.2	V



Date: 25/09/2011 - Time: 15:06:12

Tested by:  Reviewed by: _____

Figure 77: Test figure of spurious emissions, mode B, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

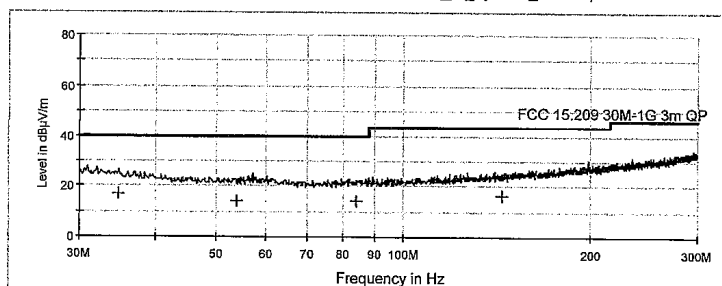
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
34.740000	17.1	13.6	22.9	40.0	H
53.880000	14.2	10.8	25.8	40.0	H
84.120000	13.9	10.5	26.1	40.0	H
144.900000	16.5	13.1	27.0	43.5	H

Date: 9/26/2011 - Time: 3:45:32



Tested by: _____ Reviewed by: _____

**Figure 78: Test figure of spurious emissions, mode B, Vertical polarity
(30MHz – 300MHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

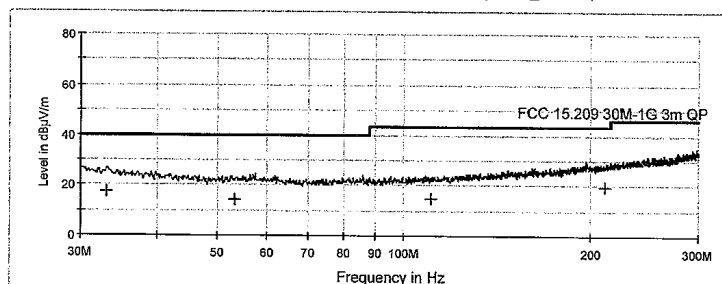
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
33.120000	17.6	14.0	22.4	40.0	V
53.340000	14.2	10.8	25.8	40.0	V
110.880000	14.6	11.4	28.9	43.5	V
212.400000	19.6	16.7	23.9	43.5	V

Date: 9/26/2011 - Time: 3:48:35

Tested by:  Reviewed by: _____

Figure 79: Test figure of spurious emissions, mode B, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

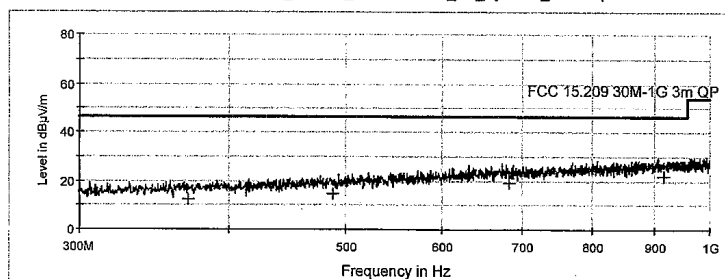
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
370.020000	12.3	16.2	33.7	46.0	H
487.980000	14.8	18.7	31.2	46.0	H
683.280000	19.4	22.3	26.6	46.0	H
917.400000	22.1	25.1	23.9	46.0	H

Date: 9/27/2011 - Time: 10:47:06



Tested by _____ Reviewed by: _____

**Figure 80: Test figure of spurious emissions, mode B, Vertical polarity
(300MHz – 1GHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

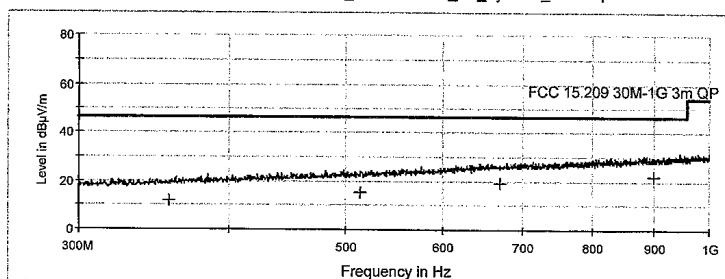
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
357.060000	11.9	15.8	34.1	46.0	V
514.560000	15.4	19.2	30.6	46.0	V
671.340000	19.3	22.1	26.7	46.0	V
900.960000	21.8	24.9	24.2	46.0	V

Date: 9/27/2011 - Time: 10:30:03



Tested by: _____ Reviewed by: _____

Figure 81: Test figure of spurious emissions, mode B, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

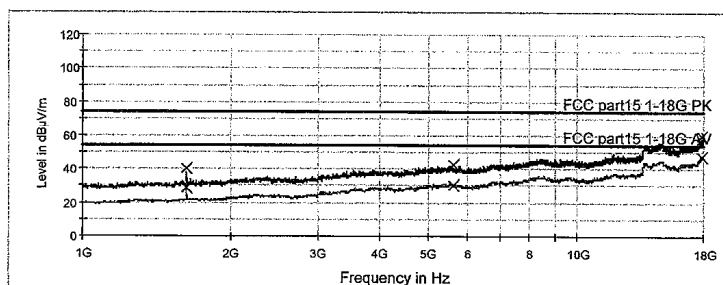
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK* (dB)	Limit - PK* (dBuV/m)	Polarization
1626.875000	39.6	-15.0	34.4	74.0	H
5632.500000	42.1	-5.1	31.9	74.0	H
17859.750000	59.2	10.5	14.8	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1626.875000	28.4	-15.0	25.6	54.0	H
5632.500000	30.4	-5.1	23.6	54.0	H
17859.750000	47.3	10.5	6.7	54.0	H

Date: 9/28/2011 - Time: 4:52:53

Tested by:   Reviewed by: _____

Figure 82: Test figure of spurious emissions, mode B, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

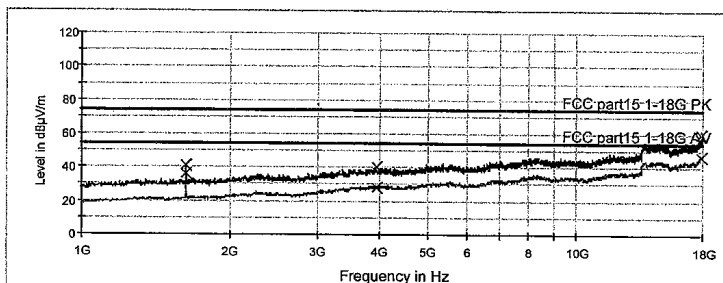
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit PK+ (dBµV/m)	Polarization
1626.875000	41.1	-15.0	32.9	74.0	V
3955.875000	39.9	-7.7	34.1	74.0	V
17847.000000	59.4	10.6	14.6	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AVG (dB)	Limit AVG (dBµV/m)	Polarization
1626.875000	36.2	-15.0	17.8	54.0	V
3955.875000	28.0	-7.7	26.0	54.0	V
17847.000000	46.8	10.6	7.2	54.0	V



Date: 9/28/2011 - Time: 4:49:48

Tested by: _____ Reviewed by: _____

Figure 83: Test figure of spurious emissions, mode B, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

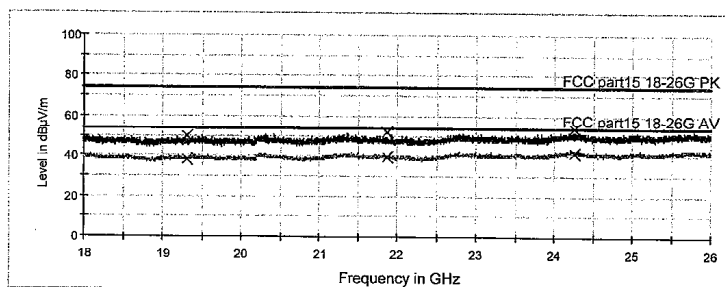
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502. [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit: PK+ (dBµV/m)	Polarization
19310.000000	50.0	3.6	24.0	74.0	H
21878.000000	51.5	4.3	22.5	74.0	H
24256.000000	53.5	4.9	20.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19310.000000	38.3	3.6	15.7	54.0	H
21878.000000	39.3	4.3	14.8	54.0	H
24256.000000	41.7	4.9	12.3	54.0	H

Date: 9/27/2011 - Time: 2:53:09



Checked by: _____ Tested by: _____ Reviewed by: _____

**Figure 84: Test figure of spurious emissions, mode B, Vertical polarity
(18GHz – 26GHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

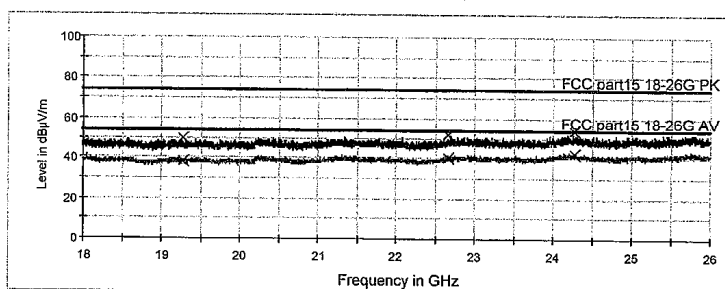
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH502 [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022077 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit PK+ (dBµV/m)	Polarization
19275.000000	50.0	3.5	24.0	74.0	V
22661.000000	51.4	4.5	22.6	74.0	V
24273.000000	53.6	4.9	20.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AVG (dB)	Limit AVG (dBµV/m)	Polarization
19275.000000	38.4	3.5	15.6	54.0	V
22661.000000	40.0	4.5	14.0	54.0	V
24273.000000	41.8	4.9	12.2	54.0	V

Date: 9/27/2011 - Time: 2:48:30



Tested by: 

Reviewed by: _____

Figure 85: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

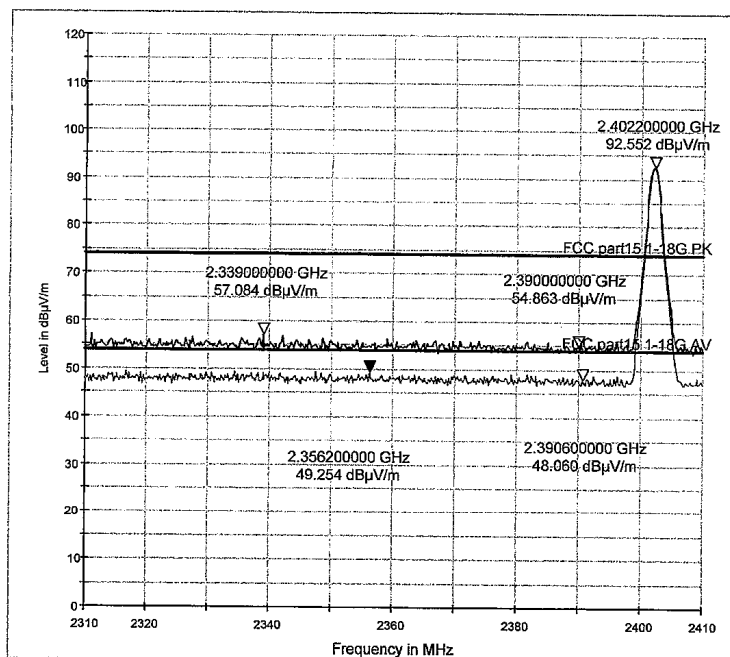
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077-001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 11:09:04

Tested by: 

Reviewed by: _____

Figure 86: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

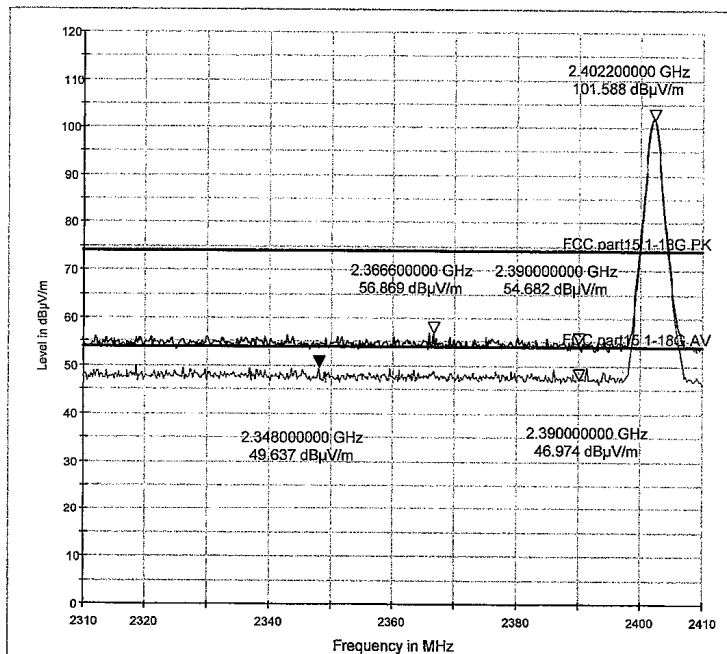
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 11:11:52

Tested by:  Reviewed by: _____

Figure 87: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

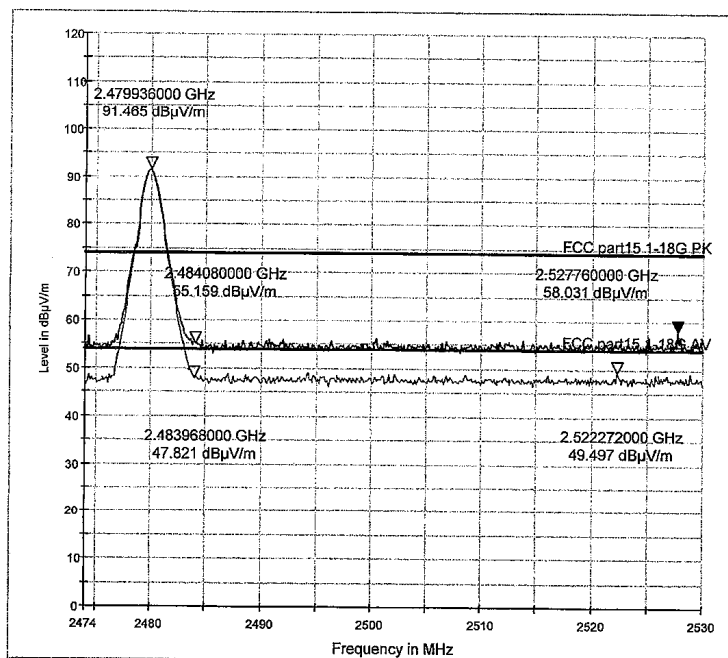
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502 [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal
Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 11:18:08

Tested by:  Reviewed by: _____

Figure 88: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

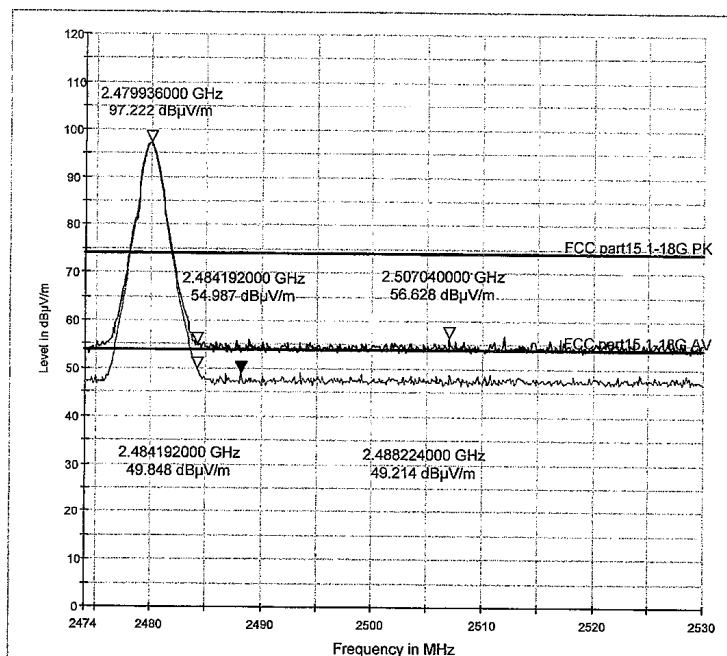
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH502. [RX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022077 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1
Frequency Range: 2GHz-3GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/28/2011 - Time: 11:15:37

Tested by: _____ Reviewed by: _____

Figure 89: Test figure of conducted emissions

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

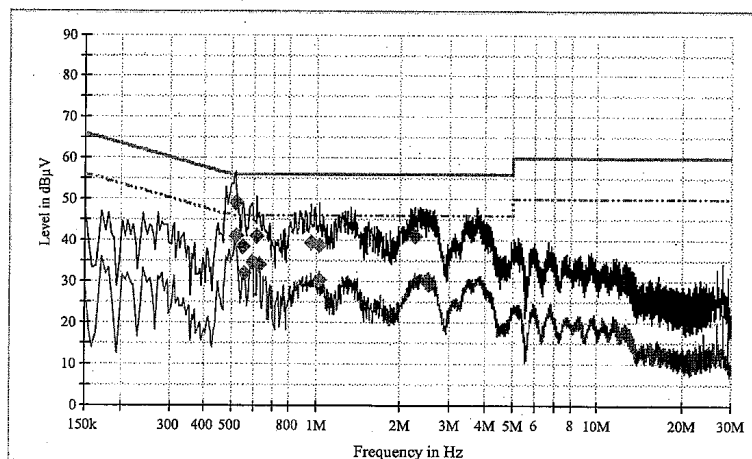
EMC Test Record (EMISSION)

Test Information

Manufacturer: Arkon
Test Item: Bluetooth stereo transmitter & receiver
Identification: BH501,BH502A
Test Standard: FCC Part 15
Test Detail: Conducted Emission
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 .kPa.
Test Voltage/ Freq.: AC120V / 60Hz
Port / Line: AC Mains(L1+N)
Receipt No.: 163082035 100,200
Report No.: 17022076 001
Result: Pass
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCI
Level Unit: dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCI



9/13/2011, 4:23:36

Tested by:



Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.514500	49.0	1000.0	9.000	GN	N	10.1	7.0	56.0	
0.546000	38.2	1000.0	9.000	GN	N	10.1	17.8	56.0	
0.613500	40.9	1000.0	9.000	GN	N	10.0	15.1	56.0	
0.960000	39.4	1000.0	9.000	GN	N	10.1	16.6	56.0	
1.027500	38.7	1000.0	9.000	GN	N	10.0	17.3	56.0	
2.247000	41.0	1000.0	9.000	GN	N	10.2	15.0	56.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.514500	40.9	1000.0	9.000	GN	N	10.1	5.1	46.0	
0.555000	32.1	1000.0	9.000	GN	L1	10.1	13.9	46.0	
0.591000	34.8	1000.0	9.000	GN	L1	10.0	11.2	46.0	
0.627000	34.1	1000.0	9.000	GN	L1	10.0	11.9	46.0	
1.027500	30.3	1000.0	9.000	GN	N	10.0	15.7	46.0	
2.526000	29.5	1000.0	9.000	GN	L1	10.1	16.5	46.0	

9/13/2011, 4:23:36

Tested by: _____



Reviewed by: _____

**Figure 90: Test figure of Radiated emissions, mode C, Horizontal polarity
(30MHz – 300MHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

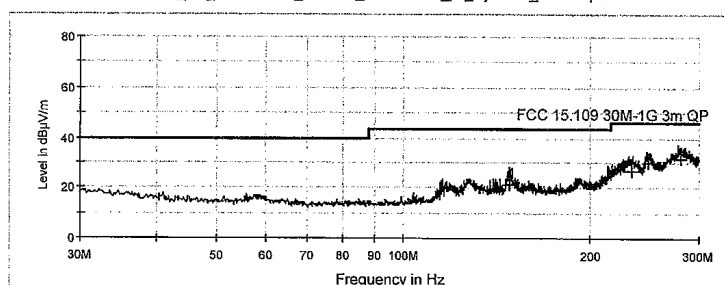
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
148.800000	21.2	13.4	22.3	43.5	H
233.160000	26.8	17.9	19.2	46.0	H
247.920000	30.1	18.7	15.9	46.0	H
281.220000	31.6	20.5	14.4	46.0	H

Date: 9/28/2011 - Time: 7:40:30

Tested by:  Reviewed by: _____

**Figure 91: Test figure of Radiated emissions, mode C, Vertical polarity
(30MHz – 300MHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

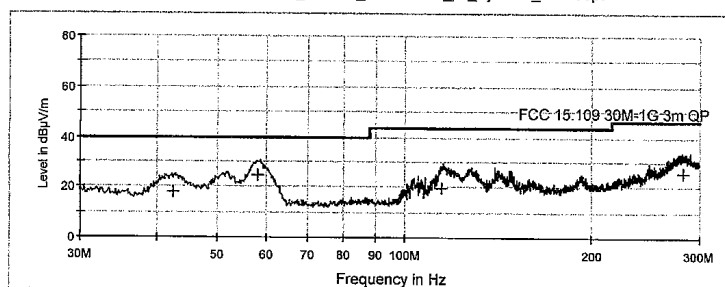
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
42.540000	18.2	11.5	21.8	40.0	V
58.200000	24.3	11.0	15.7	40.0	V
114.780000	19.7	11.5	23.8	43.5	V
281.640000	25.7	20.6	20.3	46.0	V

Date: 9/28/2011 - Time: 7:49:23

Tested by:  Reviewed by: _____

**Figure 92: Test figure of Radiated emissions, mode C, Horizontal polarity
(300MHz – 1GHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

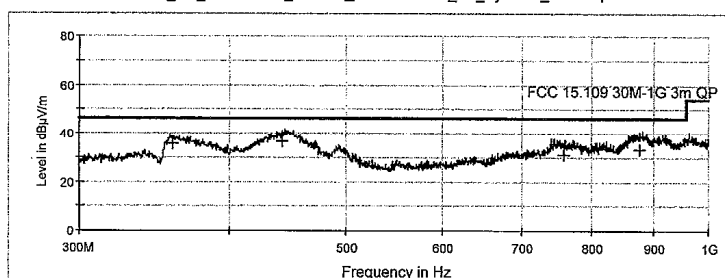
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
359.160000	35.5	15.9	10.5	46.0	H
442.440000	36.8	17.8	9.2	46.0	H
758.880000	30.8	23.1	15.2	46.0	H
875.760000	33.1	24.7	12.9	46.0	H

Date: 9/28/2011 - Time: 7:22:48

Tested by:  2011.9.28
Reviewed by:  2011.9.28

**Figure 93: Test figure of Radiated emissions, mode C, Vertical polarity
(300MHz – 1GHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

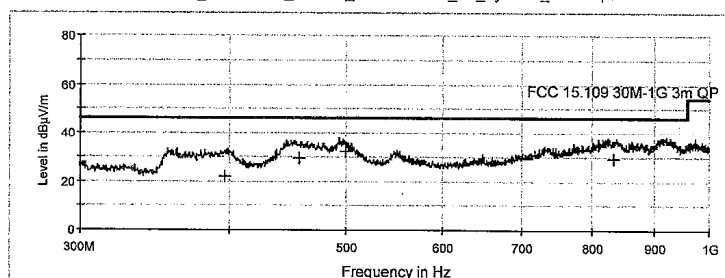
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
396.600000	22.1	16.8	23.9	46.0	V
456.480000	29.3	18.1	16.7	46.0	V
499.140000	32.1	18.9	13.9	46.0	V
833.760000	29.4	24.0	16.6	46.0	V



Date: 9/28/2011 - Time: 7:18:34

Tested by:  Reviewed by: _____

Figure 94: Test figure of Radiated emissions, mode C, Horizontal polarity (1GHz – 6GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

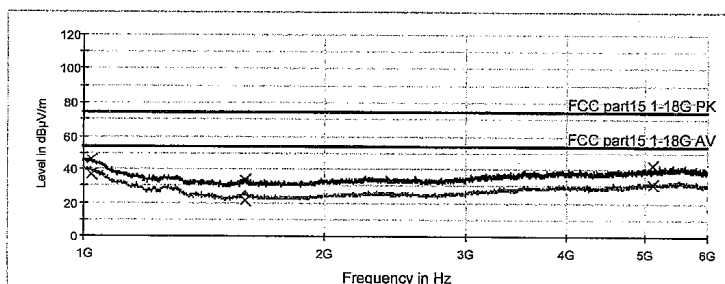
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1022.000000	45.8	-17.3	28.2	74.0	H
1596.000000	33.3	-15.3	40.7	74.0	H
5134.000000	42.5	-6.2	31.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1022.000000	36.8	-17.3	17.2	54.0	H
1596.000000	21.4	-15.3	32.6	54.0	H
5134.000000	31.1	-6.2	22.9	54.0	H

Date: 9/28/2011 - Time: 5:13:04

Tested by:  Reviewed by: _____

**Figure 95: Test figure of Radiated emissions, mode C, Vertical polarity
(1GHz – 6GHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

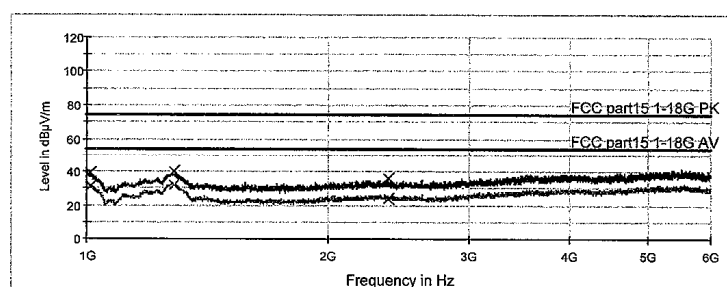
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1012.000000	39.3	-17.3	34.7	74.0	V
1288.000000	40.3	-16.3	33.7	74.0	V
2374.000000	35.6	-12.1	38.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1012.000000	31.2	-17.3	22.8	54.0	V
1288.000000	32.2	-16.3	21.8	54.0	V
2374.000000	23.9	-12.1	30.1	54.0	V

Date: 9/28/2011 - Time: 5:16:53

Tested by:  Reviewed by: _____