

<b>Prüfbericht - Nr.:</b> <b>17017065 001</b>		<b>Seite 1 von 44</b>			
<i>Test Report No.:</i>		<i>Page 1 of 44</i>			
<b>Auftraggeber:</b> <i>Client:</i>	Primax Electronics Ltd. No. 669, Ruey Kuang Rd. Neihu, Taipei 114, Taiwan				
<b>Gegenstand der Prüfung:</b> <i>Test item:</i>	Bluetooth Headset				
<b>Bezeichnung:</b> <i>Identification:</i>	RF-EX7 RF-EX7-T	RF-GPS31126	<b>Serien-Nr.:</b> n.a. <i>Serial No.:</i>		
<b>Wareneingangs-Nr.:</b> <i>Receipt No.:</i>	163065937	<b>Eingangsdatum:</b> 2010-07-15 <i>Date of receipt:</i>			
<b>Prüfört:</b> <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				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	FCC CFR47 Part 15: Subpart C Section 15.247 FCC CFR47 Part 15: Subpart C Section 15.209 FCC CFR47 Part 15: Subpart C Section 15.207 RSS-210 Issue 7 RSS-Gen Issue 2				
<b>Prüfergebnis:</b> <i>Test Result:</i>	<b>Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).</b> <i>The test item passed the test specification(s).</i>				
<b>Prüflaboratorium:</b> <i>Testing Laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
<b>geprüft/ tested by:</b>	<b>kontrolliert/ reviewed by:</b>				
 2010-07-30 Sam Lin/ Project Manager	 2010-08-05 Shawn Peng/ Technical Certifier				
<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges/ Other Aspects:</b>					
<b>Abkürzungen:</b> P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar NIT = nicht getestet			<b>Abbreviations:</b> P(ass) = passed F(ail) = failed N/A = not applicable NIT = not tested		
<b>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.</b> <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>					

## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT***RESULT: Passed***5.1.2 PEAK OUTPUT POWER***RESULT: Passed***5.1.3 20dB BANDWIDTH***RESULT: Passed***5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH***RESULT: Passed***5.1.5 SPURIOUS EMISSIONS***RESULT: Passed***5.1.6 FREQUENCY SEPARATION***RESULT: Passed***5.1.7 NUMBER OF HOPPING FREQUENCY***RESULT: Passed***5.1.8 TIME OF OCCUPANCY***RESULT: Passed***5.1.9 RADIATED EMISSIONS***RESULT: Passed***5.1.10 CONDUCTED EMISSIONS***RESULT: Passed*

## Contents

<b>1.</b>	<b>GENERAL REMARKS .....</b>	<b>4</b>
<b>1.1</b>	<b>COMPLEMENTARY MATERIALS.....</b>	<b>4</b>
<b>2.</b>	<b>TEST SITES.....</b>	<b>4</b>
<b>2.1</b>	<b>TEST FACILITIES .....</b>	<b>4</b>
<b>2.2</b>	<b>LIST OF TEST AND MEASUREMENT INSTRUMENTS .....</b>	<b>5</b>
<b>2.3</b>	<b>TRACEABILITY .....</b>	<b>6</b>
<b>2.4</b>	<b>CALIBRATION.....</b>	<b>6</b>
<b>2.5</b>	<b>MEASUREMENT UNCERTAINTY .....</b>	<b>6</b>
<b>2.6</b>	<b>LOCATION OF ORIGINAL DATA .....</b>	<b>6</b>
<b>2.7</b>	<b>STATUS OF FACILITY USED FOR TESTING .....</b>	<b>6</b>
<b>3.</b>	<b>GENERAL PRODUCT INFORMATION .....</b>	<b>7</b>
<b>3.1</b>	<b>PRODUCT FUNCTION AND INTENDED USE .....</b>	<b>7</b>
<b>3.2</b>	<b>RATINGS AND SYSTEM DETAILS.....</b>	<b>7</b>
<b>3.3</b>	<b>INDEPENDENT OPERATION MODES.....</b>	<b>8</b>
<b>3.4</b>	<b>NOISE GENERATING AND NOISE SUPPRESSING PARTS.....</b>	<b>9</b>
<b>3.5</b>	<b>SUBMITTED DOCUMENTS.....</b>	<b>9</b>
<b>4.</b>	<b>TEST SET-UP AND OPERATION MODES.....</b>	<b>9</b>
<b>4.1</b>	<b>PRINCIPLE OF CONFIGURATION SELECTION .....</b>	<b>9</b>
<b>4.2</b>	<b>TEST OPERATION AND TEST SOFTWARE .....</b>	<b>9</b>
<b>4.3</b>	<b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT .....</b>	<b>10</b>
<b>4.4</b>	<b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE .....</b>	<b>10</b>
<b>4.5</b>	<b>TEST SETUP DIAGRAM .....</b>	<b>10</b>
<b>5.</b>	<b>TEST RESULTS .....</b>	<b>12</b>
<b>5.1</b>	<b>TRANSMITTER REQUIREMENT &amp; TEST SUITES.....</b>	<b>12</b>
5.1.1	<i>Antenna Requirement.....</i>	<i>12</i>
5.1.2	<i>Peak Output Power .....</i>	<i>13</i>
5.1.3	<i>20dB Bandwidth .....</i>	<i>17</i>
5.1.4	<i>Conducted Spurious Emissions measured in 100kHz Bandwidth .....</i>	<i>24</i>
5.1.5	<i>Spurious Emissions.....</i>	<i>27</i>
5.1.6	<i>Frequency Separation .....</i>	<i>28</i>
5.1.7	<i>Number of hopping frequency.....</i>	<i>31</i>
5.1.8	<i>Time of Occupancy.....</i>	<i>33</i>
5.1.9	<i>Radiated Emissions.....</i>	<i>39</i>
5.1.10	<i>Conducted Emissions .....</i>	<i>40</i>
<b>6.</b>	<b>PHOTOGRAPHS OF THE TEST SET-UP .....</b>	<b>41</b>
<b>7.</b>	<b>LIST OF TABLES.....</b>	<b>44</b>
<b>8.</b>	<b>LIST OF PHOTOGRAPHS.....</b>	<b>44</b>

## 1. General Remarks

### 1.1 Complementary Materials

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

Appendix 1: Test Result

## 2. Test Sites

### 2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd.  
EMC Laboratory

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

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

## 2.2 List of Test and Measurement Instruments

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

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

## 2.3 Traceability

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

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular 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 Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Guangdong) Ltd. test facility located at Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUTs are Bluetooth headset with Bluetooth technology.  
All models are identical in circuit diagram and PCB layout except for different model name for various markets.  
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 Headset
Type Designation:	RF-EX7, RF-GPS31126, RF-EX7-T
FCC ID	EMJTRFEX7
IC ID	4251A-HRFEX7

**Table 3: Technical Specification of EUT**

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Operation Voltage	DC 3.7V
Modulation	GFSK, 8DPSK, $\pi/4$ -DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	2dBi
RF Output Power	0.00119W (0.77dBm)
External Ports	USB charging port
AC/DC adapter	Input: AC 100-240V, 50/60Hz, 180mA Output: DC 5.0V, 500mA

**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	<p>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.</p> <p>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.</p> <p>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.</p> <p>That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.</p>

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. Receiving
- C. Standby
- D. Charging
- E. Off

### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.5 Submitted Documents**

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

## **4. Test Set-up and Operation Modes**

### **4.1 Principle of Configuration Selection**

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

### **4.2 Test Operation and Test Software**

Test operation refers to test setup in chapter 5.  
Due to clause 3.1, all testing were applied on model RF-EX7, and were performed according to the procedures in ANSI C63.4: 2003.

### 4.3 Special Accessories and Auxiliary Equipment

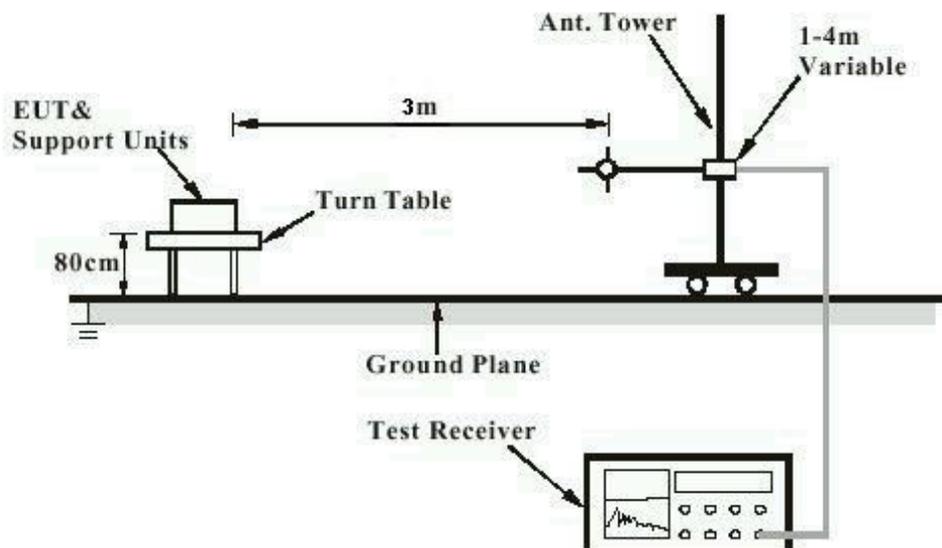
Kind of Equipment	Manufacturer	Type	S/N
Notebook	IBM	X60	L3-BZ383
AC/DC adapter	Dongguan City YINGJU Electronics Co., Ltd.	YJ-01SWP0500500U	N/A

### 4.4 Countermeasures to achieve EMC Compliance

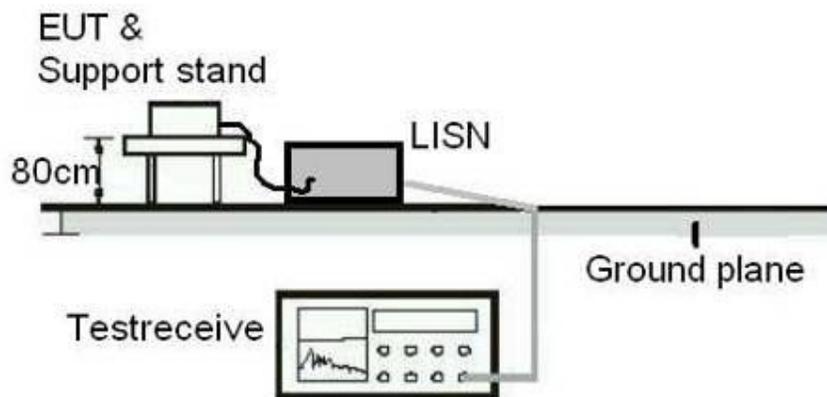
The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

### 4.5 Test Setup Diagram

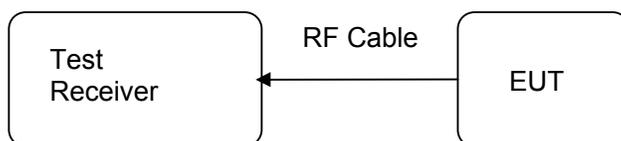
Diagram of Measurement Configuration for Radiation Test



**Diagram of Measurement Equipment Configuration for Conduction Measurement**



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



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Passed**

Test date	:	2010-07-21
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 7.1.4
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2.0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

Refer to EUT photo for details.

## 5.1.2 Peak Output Power

**RESULT:**
**Passed**

Test date : 2010-07-21 to 2010-07-27  
 Test standard : FCC Part 15.247(b)(1)  
                   : RSS-210 A8.4(2)  
 Basic standard : ANSI C63.4: 2003  
 Limit : 1 Watt  
 Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
 Operation Mode : A  
 Ambient temperature : 24°C  
 Relative humidity : 52%  
 Atmospheric pressure : 100.6 kPa

**Table 5: Test result of Peak Output Power, Basic Data Rate**

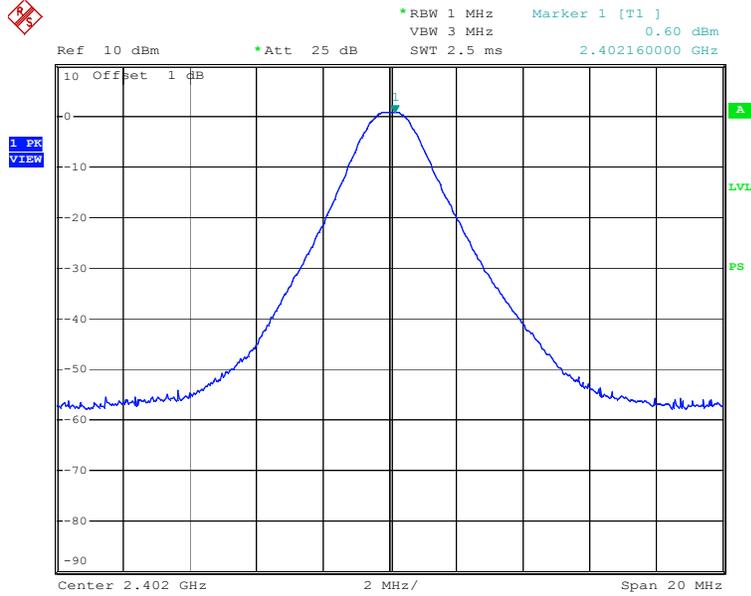
Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2402	0.60	0.00115	1
Middle Channel	2441	0.77	0.00119	1
High Channel	2480	0.14	0.00103	1

**Table 6: Test result of Peak Output Power, Enhanced Data Rate**

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2402	0.51	0.00112	1
Middle Channel	2441	0.33	0.00108	1
High Channel	2480	-0.50	0.00089	1

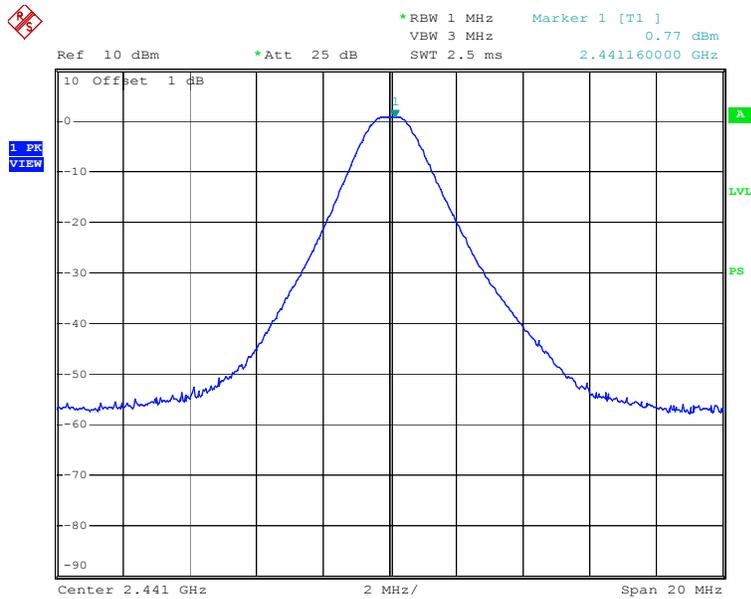
### Test Graph of Peak Output Power, Basic Data Rate

#### Low Channel

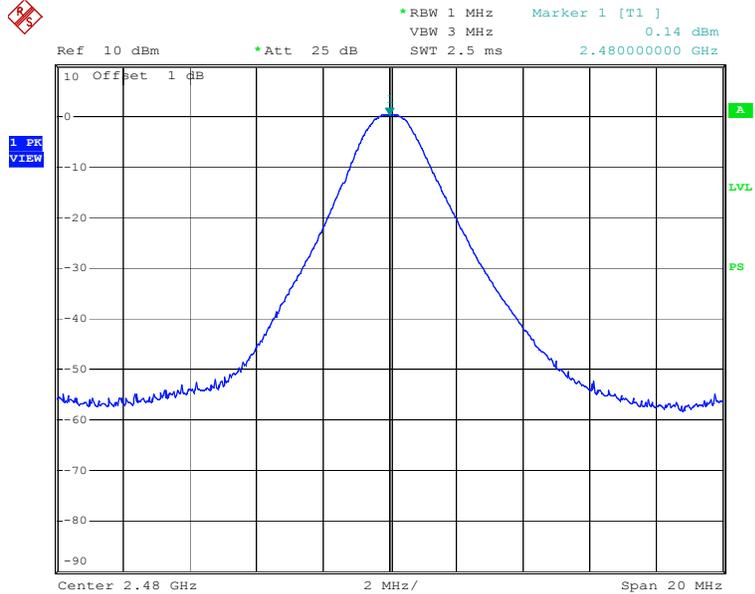


Date: 22.JUL.2010 10:45:10

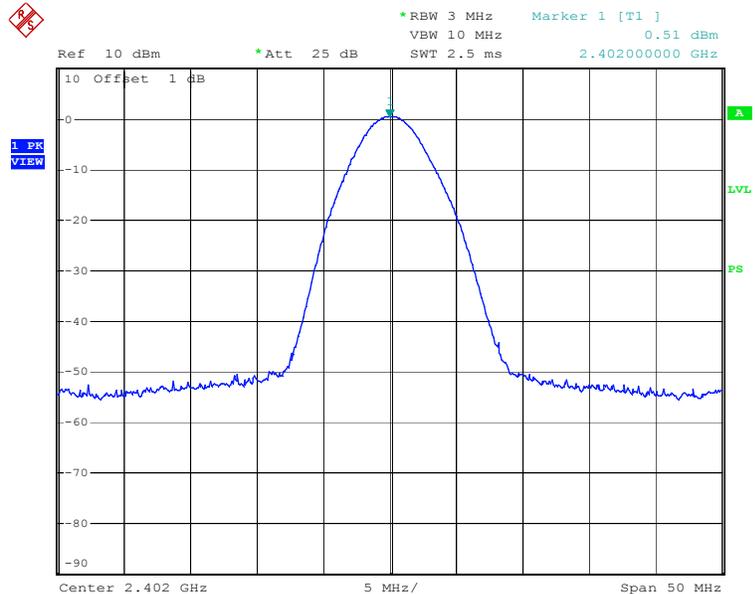
#### Middle Channel



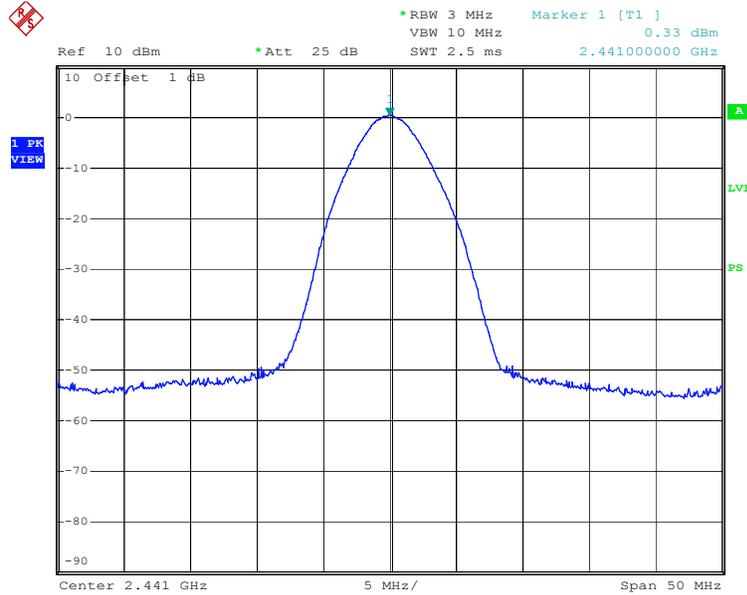
Date: 22.JUL.2010 10:43:34

**High Channel**


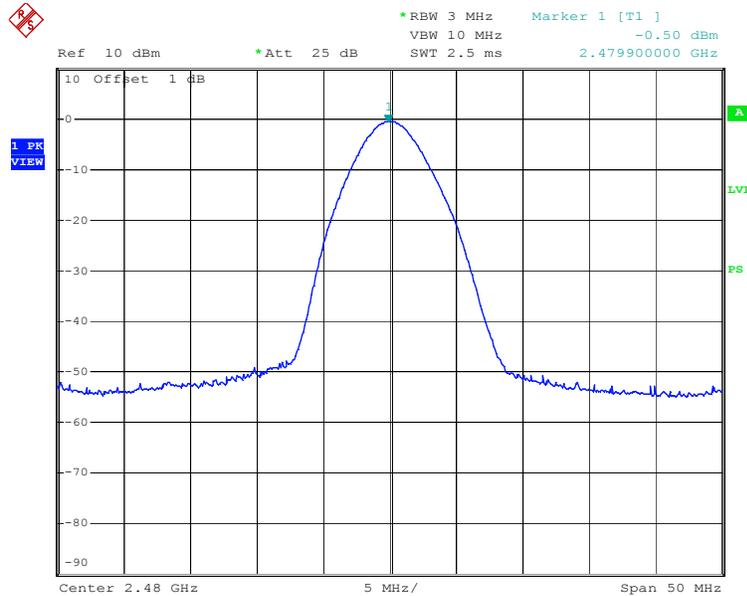
Date: 22.JUL.2010 10:42:24

**Test Graph of Peak Output Power, Enhanced Data Rate**
**Low Channel**


Date: 22.JUL.2010 09:56:14

**Middle Channel**


Date: 22.JUL.2010 09:54:59

**High Channel**


Date: 22.JUL.2010 10:04:05

### 5.1.3 20dB Bandwidth

**RESULT:**
**Passed**

Date of testing : 2010-07-21 to 2010-07-27  
 Test standard : FCC Part 15.247(a)(1)  
                   : RSS-210 A8.1(a)  
 Basic standard : ANSI C63.4: 2003  
 Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
 Operation Mode : A  
 Ambient temperature : 24°C  
 Relative humidity : 52%  
 Atmospheric pressure : 100.6 kPa

**Table 7: Test result of Bandwidth, Basic Data Rate**

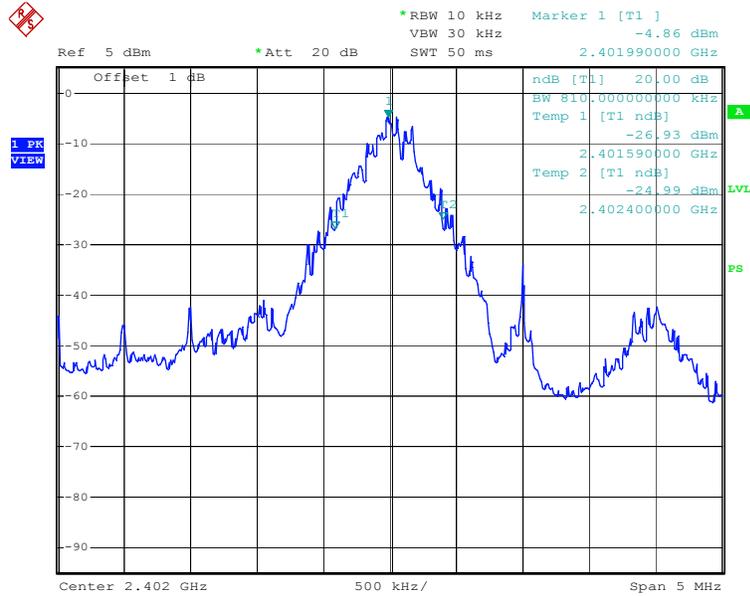
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Result
Low Channel	2402	810	854	Pass
Mid Channel	2441	810	863	Pass
High Channel	2480	810	863	Pass

**Table 8: Test result of Bandwidth, Enhanced Data Rate**

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
Low Channel	2402	1.21	1.21	Pass
Mid Channel	2441	1.19	1.18	Pass
High Channel	2480	1.18	1.17	Pass

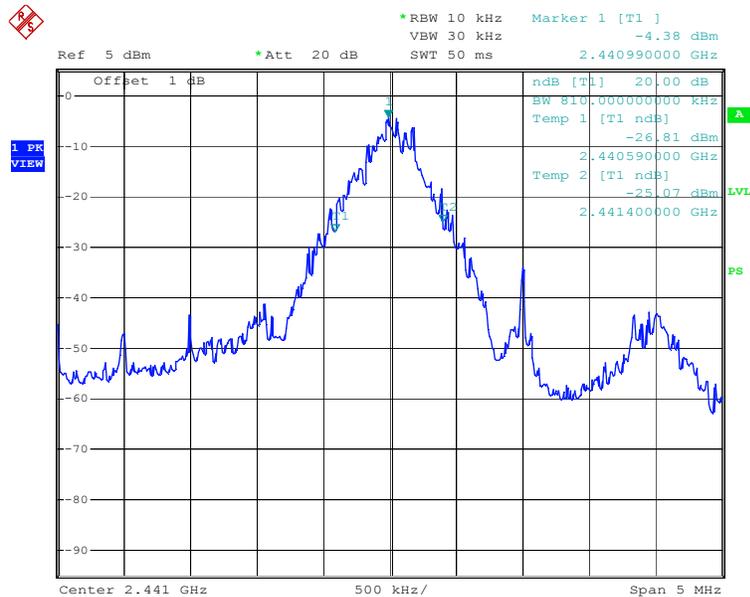
## Test Graph of 20dB Bandwidth, Basic Data Rate

### Low Channel

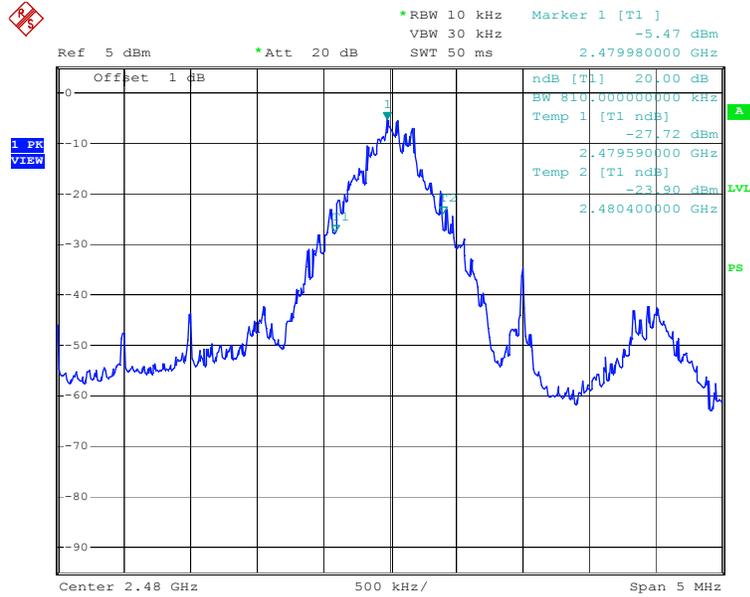


Date: 21.JUL.2010 11:55:09

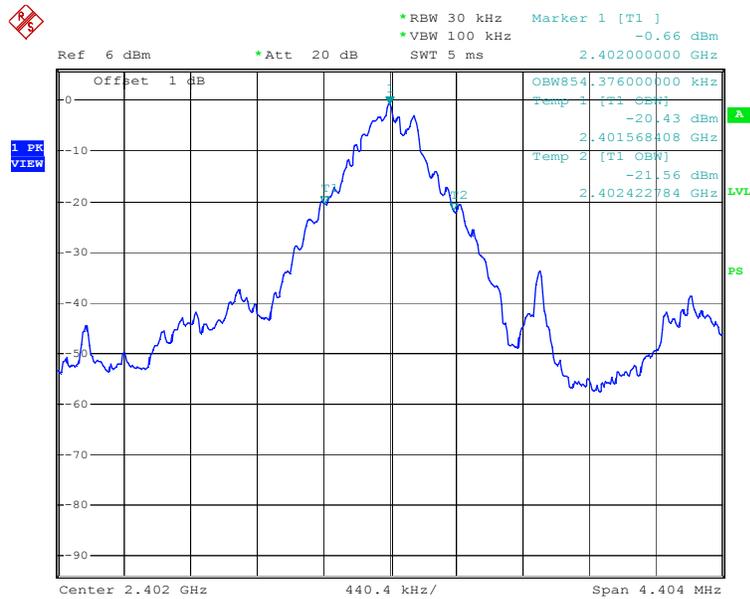
### Middle Channel



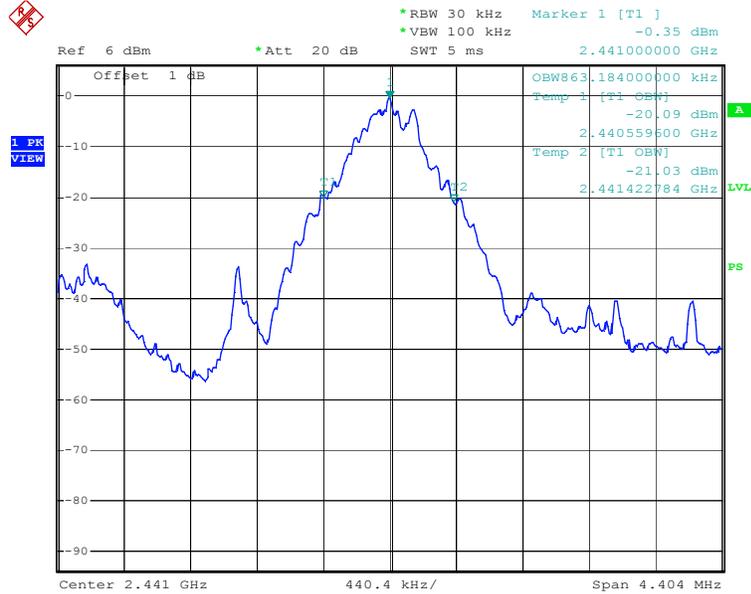
Date: 21.JUL.2010 11:57:17

**High Channel**


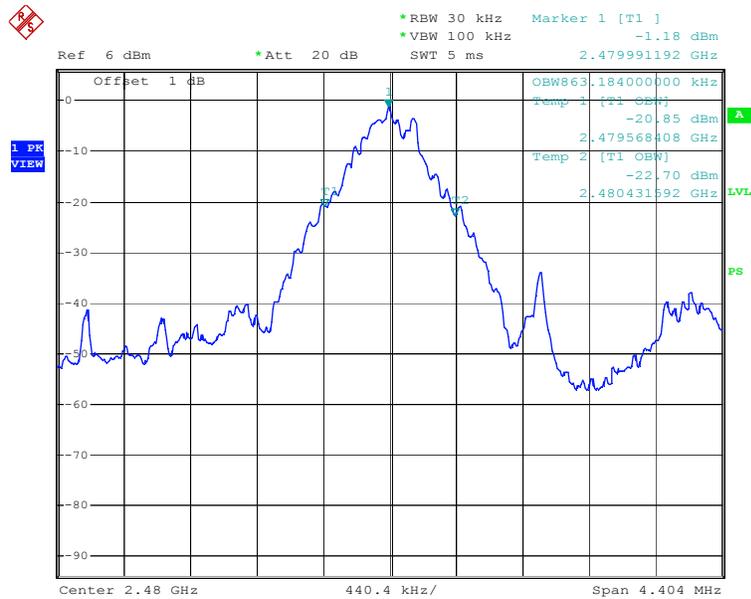
Date: 21.JUL.2010 11:58:54

**Test Graph of 99% Basic Data Rate**
**Low Channel**


Date: 27.JUL.2010 16:13:56

**Middle Channel**


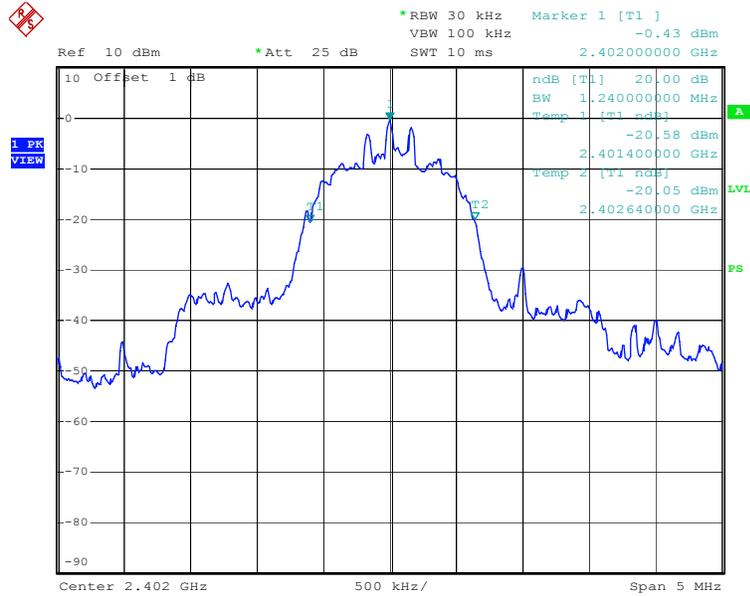
Date: 27.JUL.2010 16:12:23

**High Channel**


Date: 27.JUL.2010 16:15:02

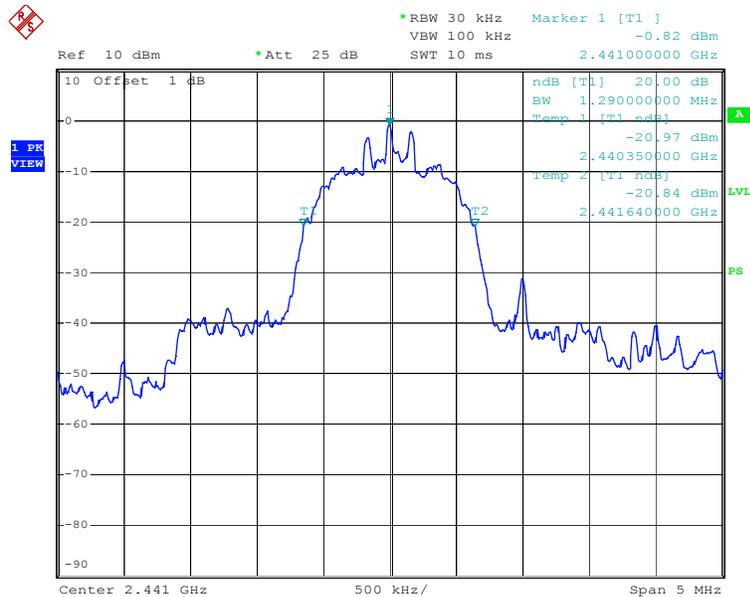
## Test Graph of 20dB Bandwidth, Enhanced Data Rate

### Low Channel

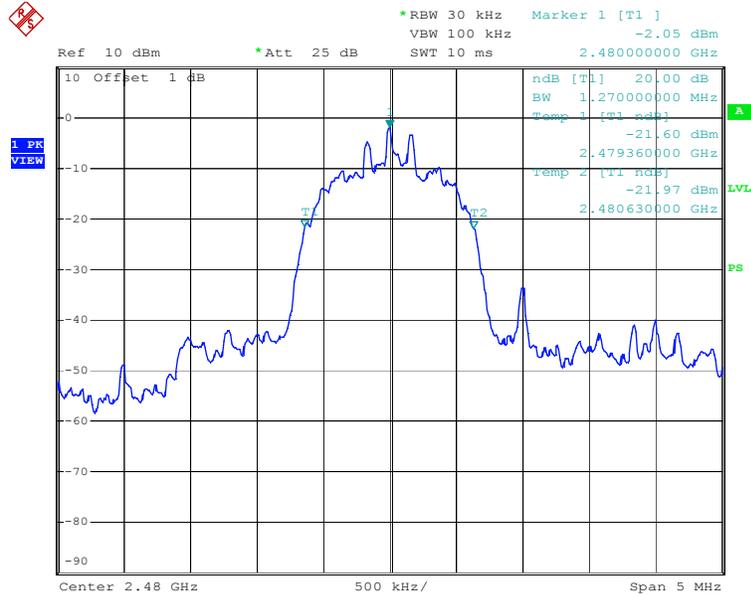


Date: 22.JUL.2010 10:13:33

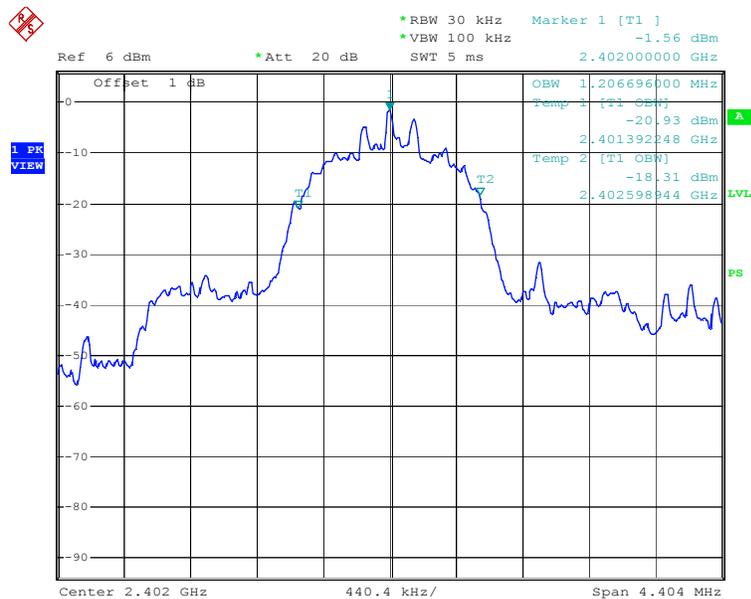
### Middle Channel



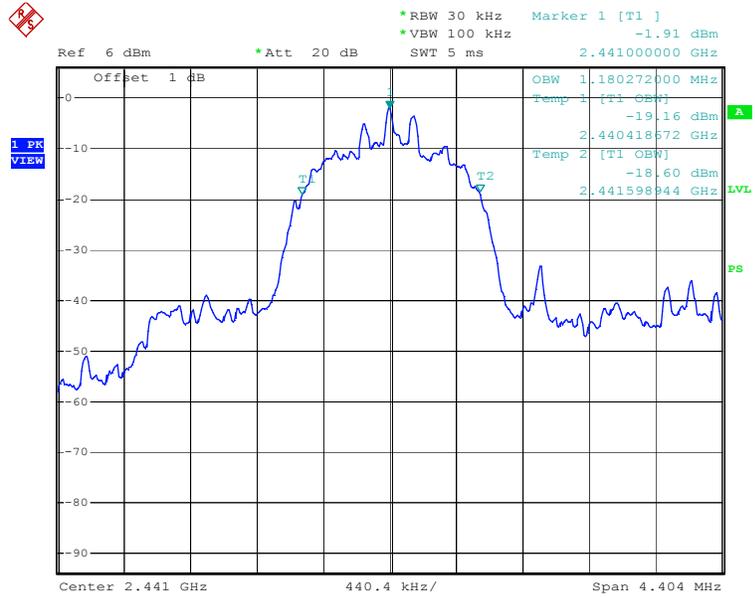
Date: 22.JUL.2010 10:12:12

**High Channel**


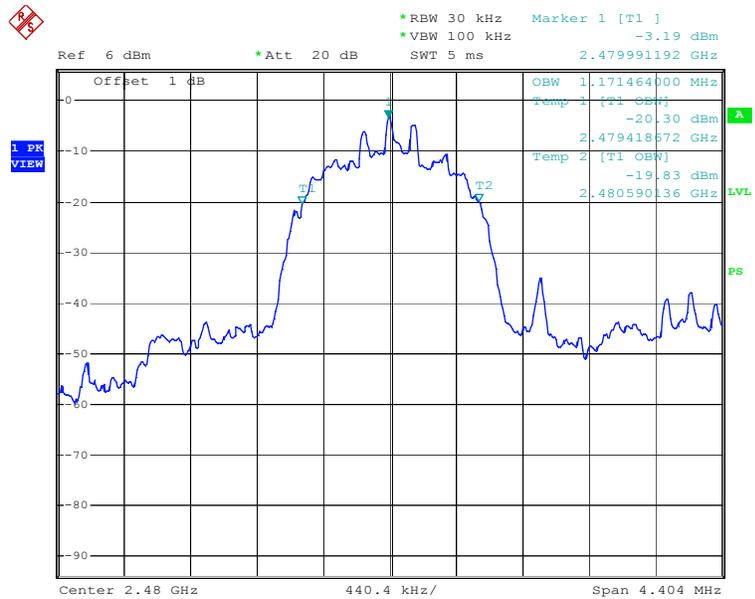
Date: 22.JUL.2010 10:10:38

**Test Graph of 99% Bandwidth, Enhanced Data Rate**
**Low Channel**


Date: 27.JUL.2010 16:21:59

**Middle Channel**


Date: 27.JUL.2010 16:19:42

**High Channel**


Date: 27.JUL.2010 16:17:35

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

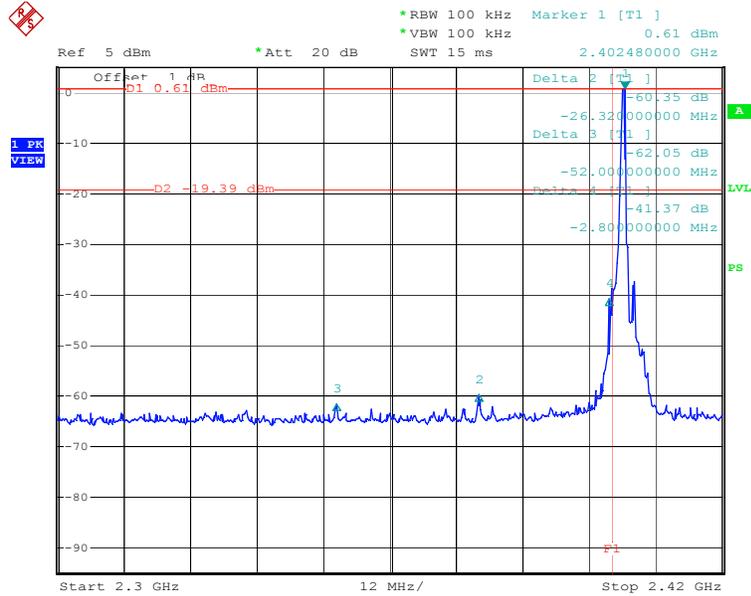
**RESULT:****Passed**

Date of testing	:	2010-07-21 to 2010-07-27
Test standard	:	FCC part 15.247(d) RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

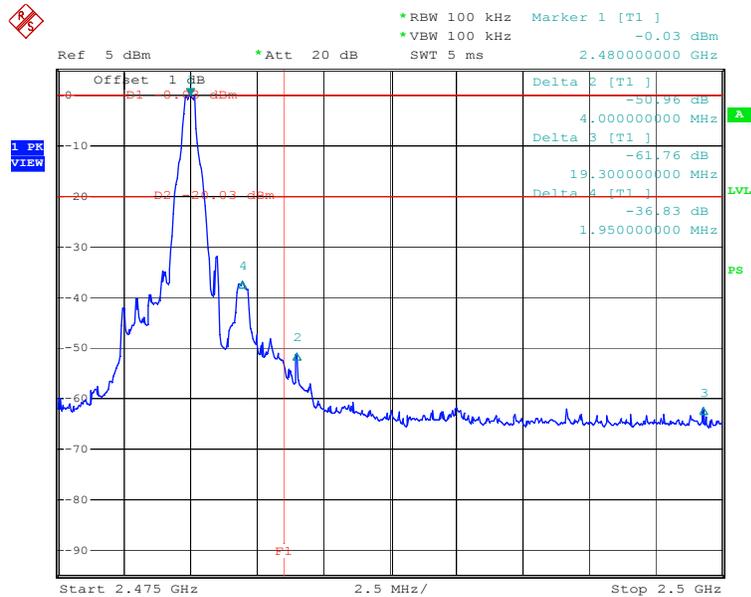
**Test setup**

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	24°C
Relative humidity	:	52%
Atmospheric pressure	:	100.6 kPa

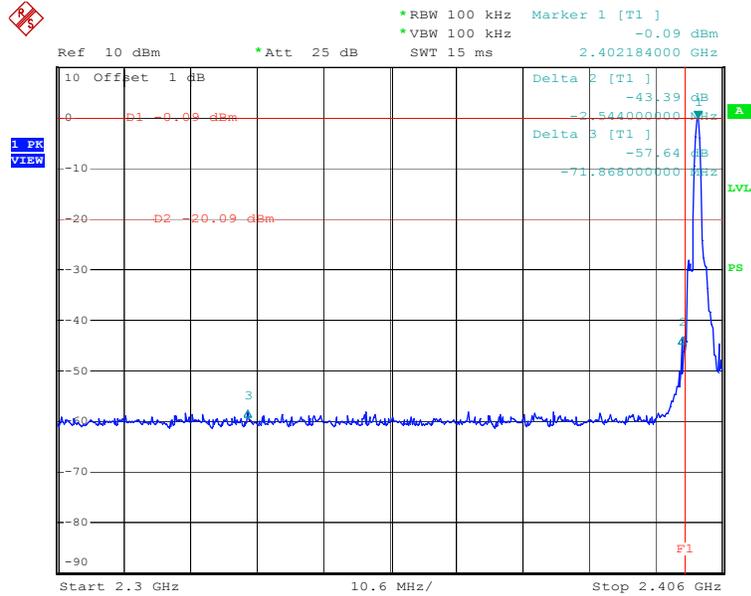
The range from 9kHz to 26GHz was investigated, and except for the range shown in the following diagrams no emissions more than 20dB below fundamental were found. Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test graph, and compliance is achieved as well.

**Test Graph of 100kHz Bandwidth of Frequency Band Edge, Basic Data Rate  
 Low Channel**


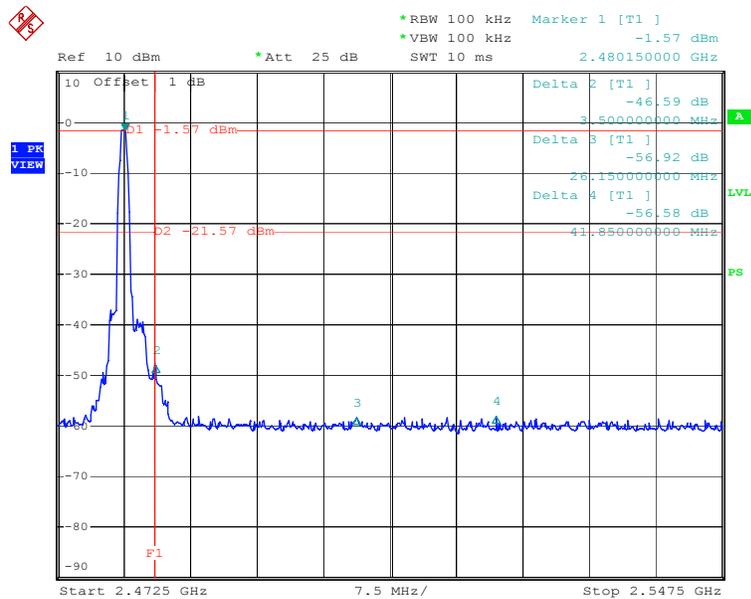
Date: 21.JUL.2010 12:13:08

**High Channel**


Date: 21.JUL.2010 12:06:03

**Test Graph of 100kHz Bandwidth of Frequency Band Edge, Enhanced Data Rate Low Channel**


Date: 22.JUL.2010 10:22:08

**High Channel**


Date: 22.JUL.2010 10:25:14

### 5.1.5 Spurious Emissions

**RESULT:****Passed**

Date of testing : 2010-07-22 to 2010-07-26  
Test standard : FCC part 15.247(d)  
RSS-210 Clause 2.2  
Basic standard : ANSI C63.4: 2003  
Limits : Refer to 15.209(a)  
Table 2 & 3 of RSS-210  
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 : 101.0 kPa

Testing was carried out on all test modes, the worst case was found on GFSK modulation mode. Only the worst case was shown in Appendix 1. Refer to attached appendix 1 for details.

## 5.1.6 Frequency Separation

**RESULT:**
**Passed**

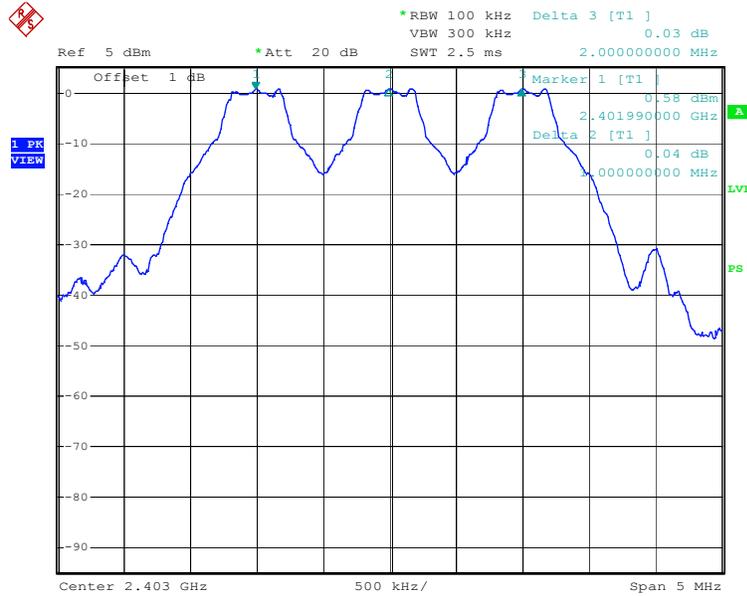
Date of testing : 2010-07-21 to 2010-07-27  
 Test standard : FCC part 15.247(a)(1)  
                   : RSS-210 A8.1(b)  
 Basic standard : ANSI C63.4: 2003  
 Limit :  $\geq 25\text{kHz}$  or two-thirds of 20dB bandwidth,  
           : whichever is greater  
 Kind of test site : Shield room

**Test setup**

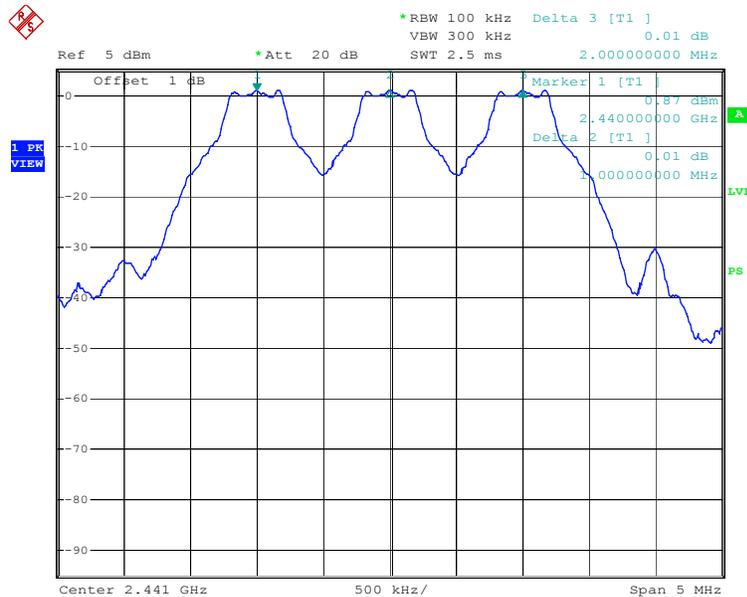
Test Channel : Low/ Middle/ High  
 Operation Mode : A  
 Ambient temperature : 24°C  
 Relative humidity : 52%  
 Atmospheric pressure : 100.6 kPa

**Table 9: Test result of Frequency Separation**

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

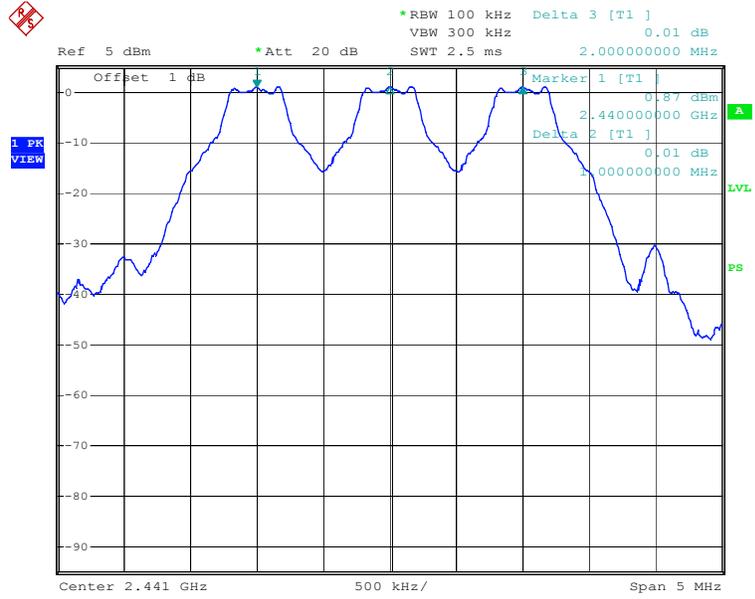
**Test Graph of Frequency Separation**  
**Low Channel**


Date: 21.JUL.2010 12:25:10

**Middle Channel**


Date: 21.JUL.2010 12:27:31

High Channel



Date: 21.JUL.2010 12:27:31

### 5.1.7 Number of hopping frequency

**RESULT:****Passed**

Date of testing : 2010-07-21 to 2010-07-27  
Test standard : FCC part 15.247(a)(1)(iii)  
RSS-210 A8.1(d)  
Basic standard : ANSI C63.4: 2003  
Limits :  $\geq 15$  non-overlapping channels  
Kind of test site : Shield room

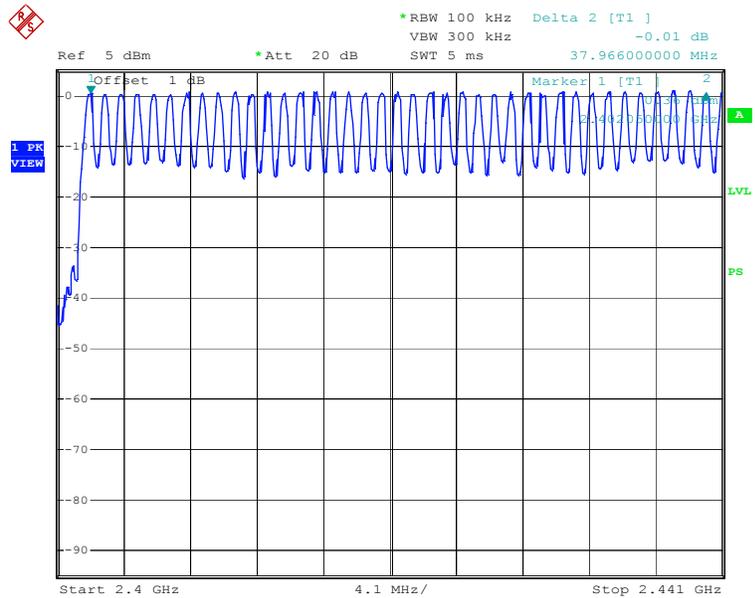
**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 24°C  
Relative humidity : 52%  
Atmospheric pressure : 100.6 kPa

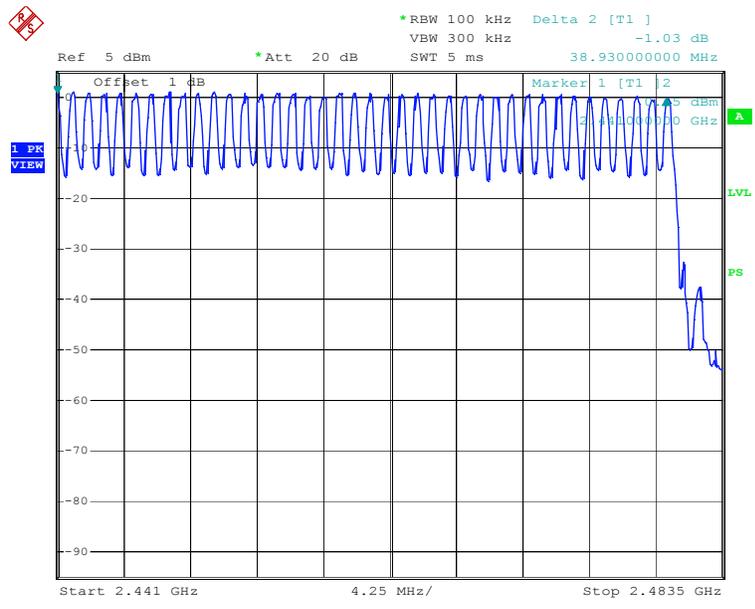
**Table 10: Test result of Number of hopping frequency**

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

### Test Graph of Number of hopping frequency



Date: 21.JUL.2010 12:18:05



Date: 21.JUL.2010 12:20:48

### 5.1.8 Time of Occupancy

**RESULT:**
**Passed**

Date of testing : 2010-07-21 to 2010-07-27  
 Test standard : FCC part 15.247(a)(1)(iii)  
                   : RSS-210 A8.1(d)  
 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 : 24°C  
 Relative humidity : 52%  
 Atmospheric pressure : 100.6 kPa

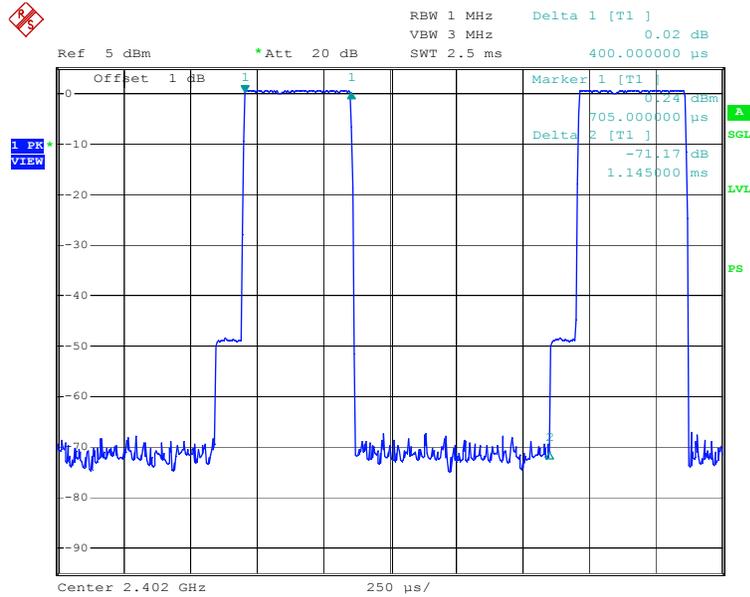
**Table 11: Test result of Time of Occupancy**

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.400	0.128	0.4	Pass
	DH3	1.420	0.227	0.4	Pass
	DH5	2.905	0.310	0.4	Pass
Mid Channel	DH1	0.395	0.126	0.4	Pass
	DH3	1.410	0.226	0.4	Pass
	DH5	2.905	0.310	0.4	Pass
High Channel	DH1	0.395	0.126	0.4	Pass
	DH3	1.420	0.227	0.4	Pass
	DH5	2.905	0.310	0.4	Pass

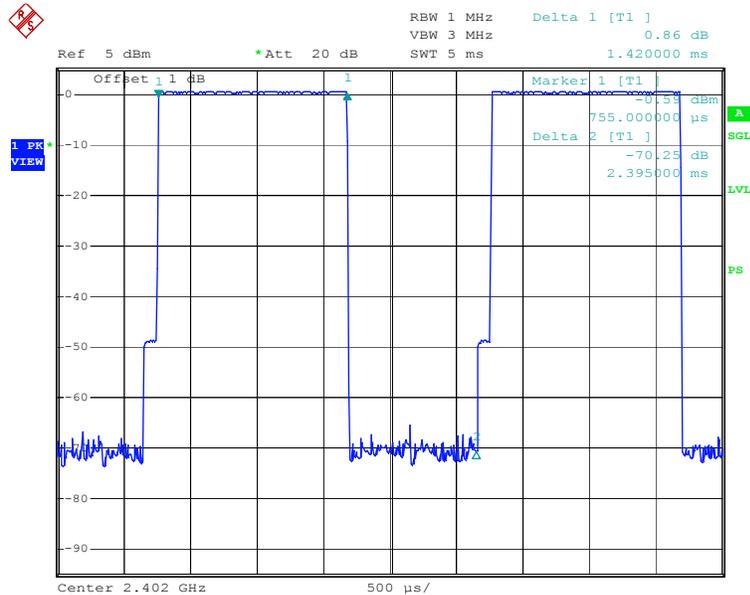
**Note:**

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

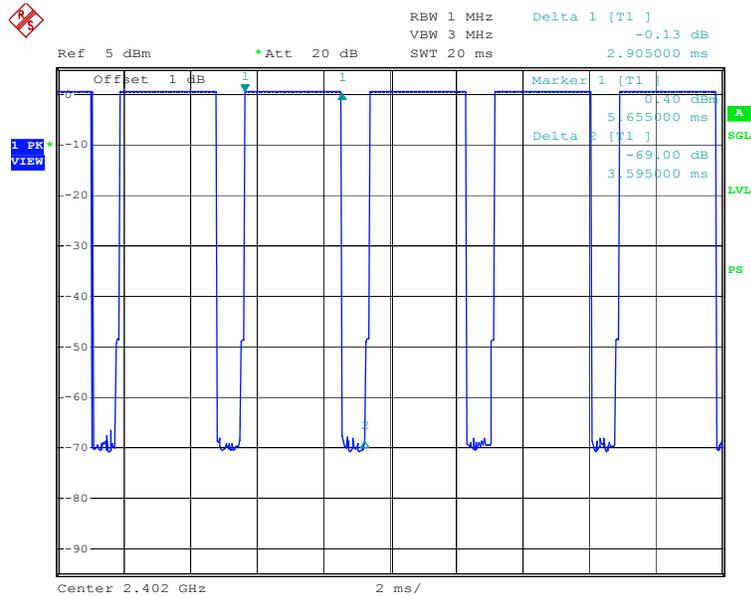
Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

**Test Graph of Time of Occupancy**  
**Low Channel- DH1**


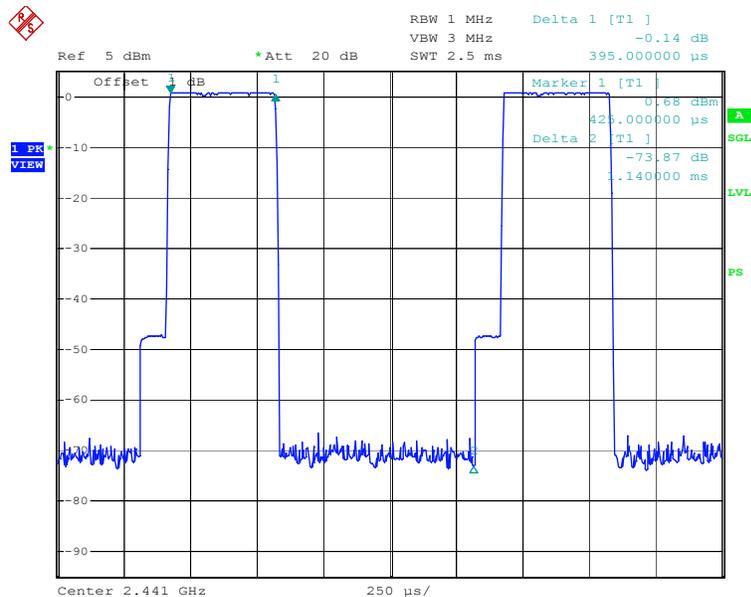
Date: 21.JUL.2010 12:55:21

**Low Channel- DH3**


Date: 21.JUL.2010 12:57:10

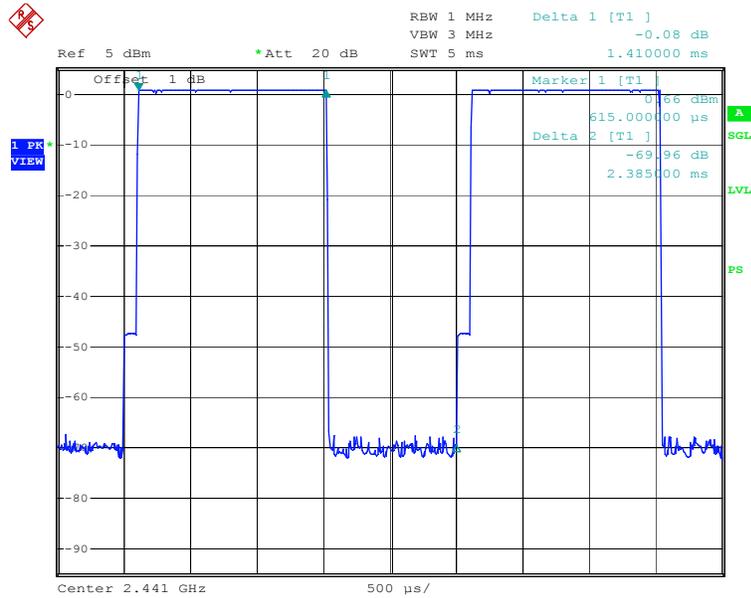
**Low Channel- DH5**


Date: 21.JUL.2010 13:06:18

**Middle Channel- DH1**


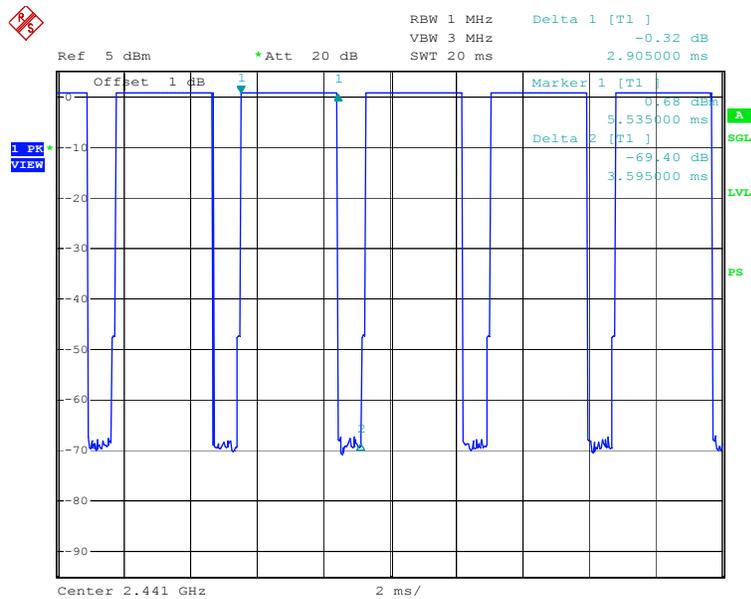
Date: 21.JUL.2010 12:54:17

Middle Channel- DH3

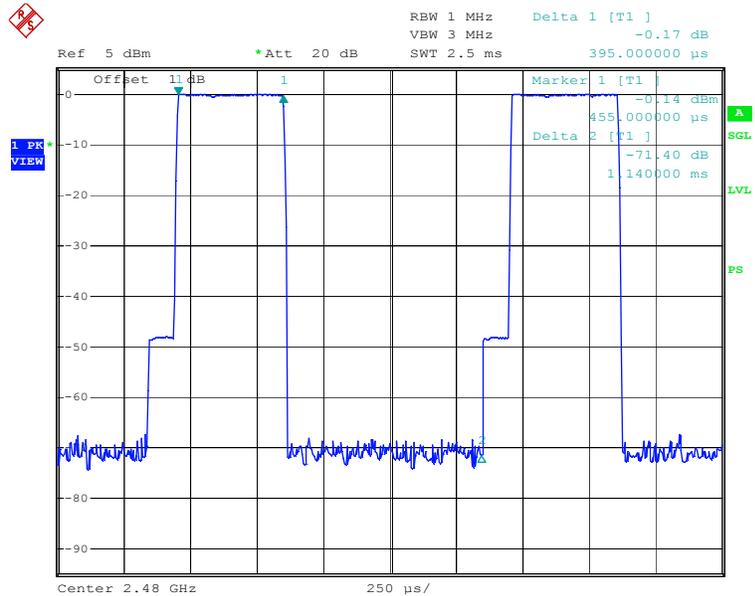


Date: 21.JUL.2010 12:58:57

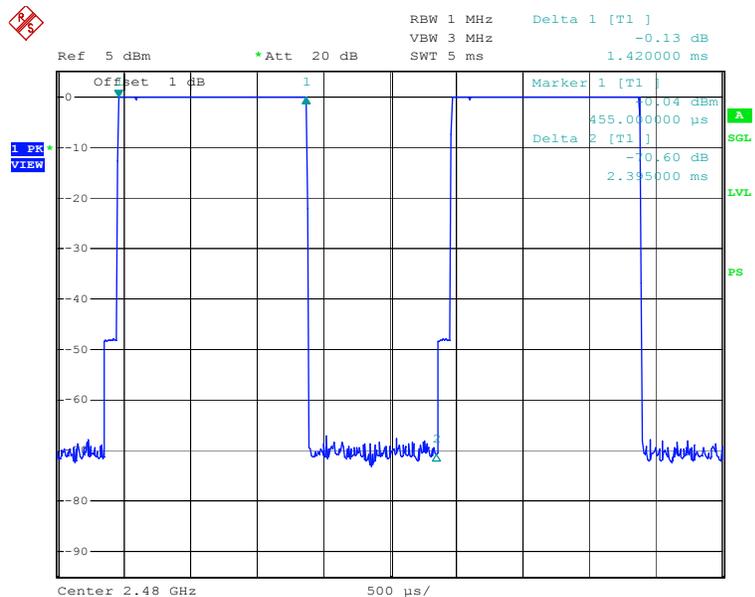
Middle Channel- DH5



Date: 21.JUL.2010 13:03:52

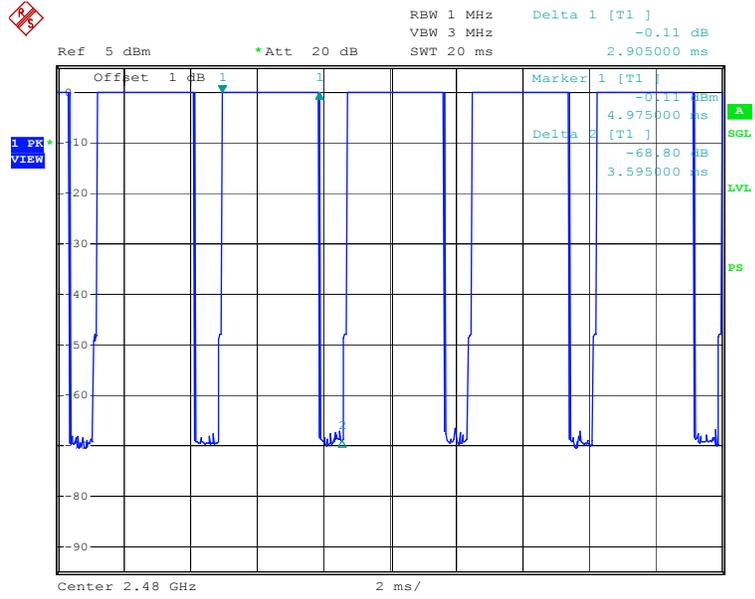
**High Channel- DH1**


Date: 21.JUL.2010 12:53:07

**High Channel- DH3**


Date: 21.JUL.2010 13:00:09

High Channel- DH5



Date: 21.JUL.2010 13:02:09

### 5.1.9 Radiated Emissions

**RESULT:****Passed**

Date of testing	:	2010-07-22 to 2010-07-26
Test standard	:	FCC Part 15.209 RSS-210 Clause 2.6
Basic standard	:	ANSI C63.4: 2003
Limits	:	FCC Part 15.209(a) RSS-210 Table 2
Kind of test site	:	3m Semi-Anechoic Chamber

**Test Setup**

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	D
Earthing	:	Not Connected
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

Refer to appendix 1 for details.

### 5.1.10 Conducted Emissions

**RESULT:****Passed**

Date of testing : 2010-07-22 to 2010-07-26  
Test standard : FCC Part 15.207  
RSS Gen Clause 7.2.2  
Basic standard : ANSI C63.4: 2003  
Limits : FCC Part 15.207(a)  
Table 2 of RSS-Gen  
Kind of test site : Shield Room

**Test Setup**

Input Voltage : AC 120V, 60Hz  
Operation Mode : D  
Earthing : Not Connected  
Ambient temperature : 23°C  
Relative humidity : 50%  
Atmospheric pressure : 101 kPa

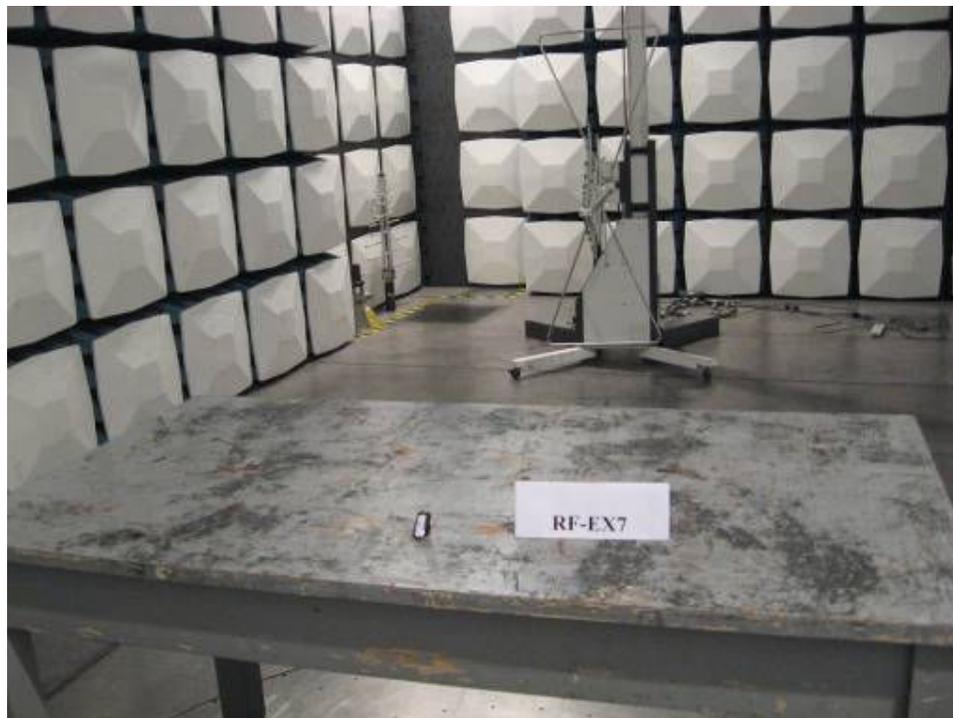
Refer to appendix 1 for details.

## 6. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)



**Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)**



**Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz)**



**Photograph 5: Set-up for Radiated Emissions**



**Photograph 6: Set-up for Conducted Emissions**



## 7. List of Tables

Table 1: List of Test and Measurement Equipment.....	5
Table 2: Rating of EUT .....	7
Table 3: Technical Specification of EUT.....	7
Table 4: Frequency hopping information .....	8
Table 5: Test result of Peak Output Power, Basic Data Rate.....	13
Table 6: Test result of Peak Output Power, Enhanced Data Rate .....	13
Table 7: Test result of Bandwidth, Basic Data Rate .....	17
Table 8: Test result of Bandwidth, Enhanced Data Rate.....	17
Table 9: Test result of Frequency Separation .....	28
Table 10: Test result of Number of hopping frequency .....	31
Table 11: Test result of Time of Occupancy .....	33

## 8. List of Photographs

Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz) .....	41
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz) .....	41
Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz).....	42
Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz).....	42
Photograph 5: Set-up for Radiated Emissions .....	43
Photograph 6: Set-up for Conducted Emissions .....	43

## Test Graph of Spurious Emissions, mode A&B

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### EMC Test Record (EMISSION)

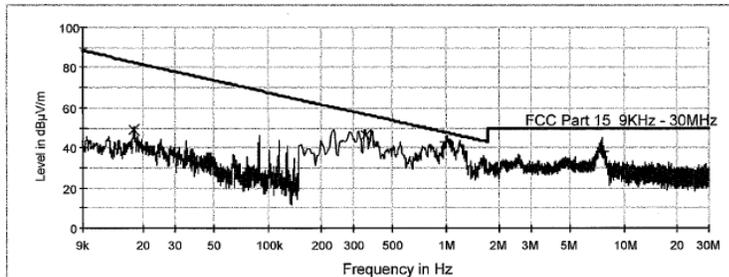
#### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



#### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.462000	38.4	---	21.9	H
1.010000	42.7	---	20.3	H
0.017560	---	48.8	20.7	H
0.354000	---	46.5	20.8	H

Date: 26/07/2010 - Time: 23:13:40

Tested by:



Reviewed by:



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EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

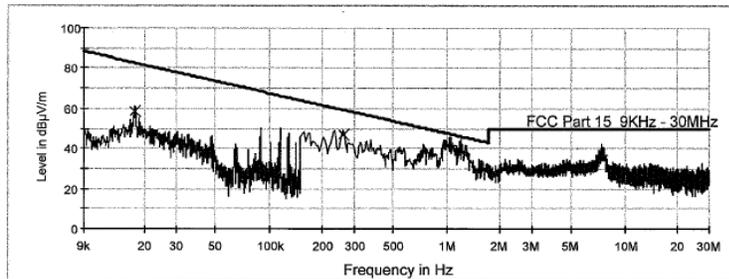
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.410000	37.0	---	21.9	V
1.046000	41.7	---	20.3	V
0.017560	---	58.3	20.7	V
0.262000	---	46.8	20.9	V

Date: 26/07/2010 - Time: 23:06:54

Tested by:  Reviewed by: 

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## EMC Test Record (EMISSION)

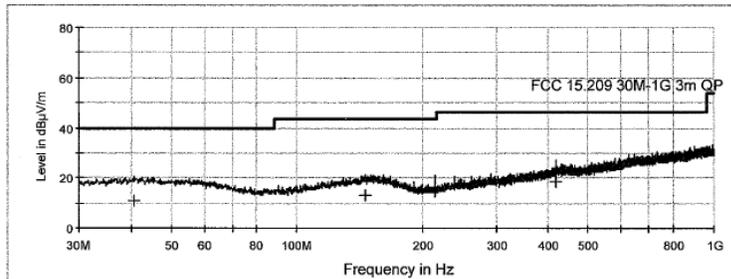
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
40.800000	11.1	14.7	28.9	40.0	H
145.900000	12.8	15.4	30.7	43.5	H
214.800000	14.7	12.1	28.8	43.5	H
419.200000	18.3	17.9	27.7	46.0	H

Date: 26/07/2010 - Time: 16:43:24

Tested by:



Reviewed by:



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## EMC Test Record (EMISSION)

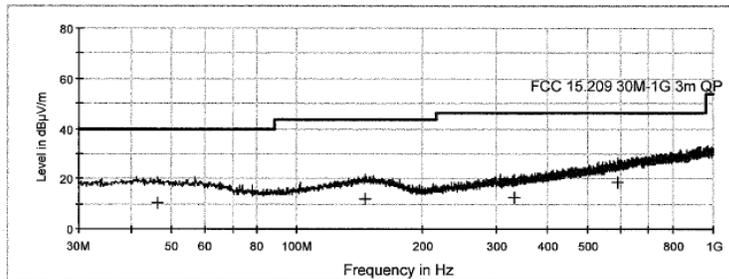
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
46.500000	10.6	14.4	29.4	40.0	V
146.200000	11.9	15.4	31.6	43.5	V
331.100000	12.3	15.9	33.7	46.0	V
590.000000	18.3	21.3	27.7	46.0	V

Date: 26/07/2010 - Time: 16:38:37

Tested by:  Reviewed by: 

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## EMC Test Record (EMISSION)

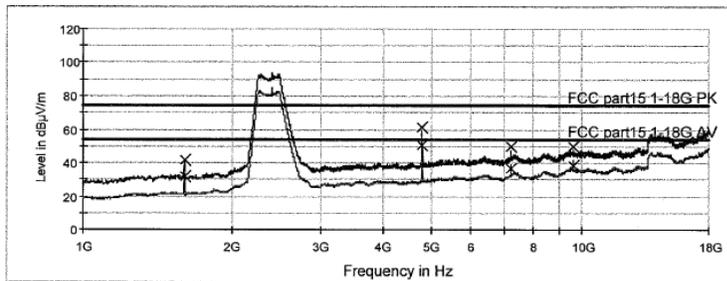
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 1 to 18G HF906



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1601.000000	41.5	-14.0	32.5	74.0	V
4804.000000	61.3	-5.5	12.7	74.0	V
7206.000000	50.2	-0.2	23.8	74.0	V
9608.000000	50.1	4.8	23.9	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1601.000000	31.6	-14.0	22.4	54.0	V
4804.000000	50.8	-5.5	3.2	54.0	V
7206.000000	36.8	-0.2	17.2	54.0	V
9608.000000	38.3	4.8	15.7	54.0	V

Date: 26/07/2010 - Time: 19:04:04

Tested by:  Reviewed by: \_\_\_\_\_



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## EMC Test Record (EMISSION)

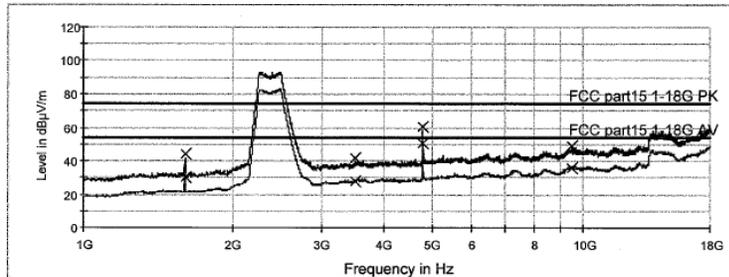
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 1 to 18G HF906



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1601.000000	44.1	-14.0	29.9	74.0	H
3512.000000	41.6	-7.7	32.4	74.0	H
4804.000000	60.8	-5.5	13.2	74.0	H
9519.000000	49.1	5.0	24.9	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1601.000000	30.2	-14.0	23.8	54.0	H
3512.000000	27.4	-7.7	26.6	54.0	H
4804.000000	50.3	-5.5	3.7	54.0	H
9519.000000	36.0	5.0	18.0	54.0	H

Date: 26/07/2010 - Time: 18:56:23

Tested by:  2010.7.26

Reviewed by:  2010.7.27

Checked

Checked

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EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

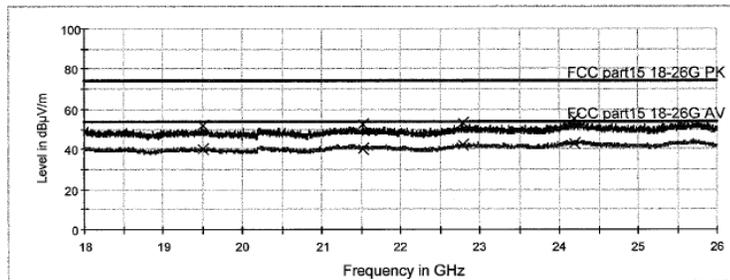
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19512.000000	51.5	5.4	22.5	74.0	H
21534.000000	52.2	5.9	21.8	74.0	H
22789.000000	53.4	6.4	20.6	74.0	H
24189.000000	54.8	6.9	19.2	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19512.000000	39.9	5.4	14.1	54.0	H
21534.000000	40.4	5.9	13.6	54.0	H
22789.000000	41.9	6.4	12.1	54.0	H
24189.000000	43.1	6.9	10.9	54.0	H

Date: 26/07/2010 - Time: 22:04:34

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

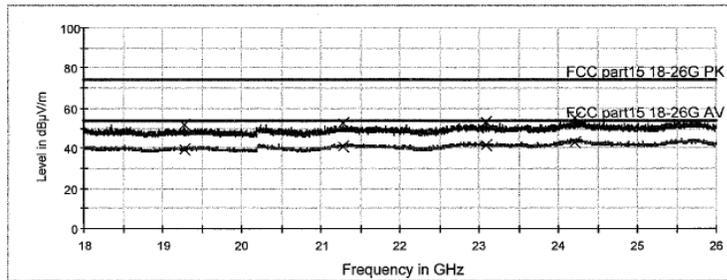
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Low channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19289.000000	51.6	5.3	22.4	74.0	V
21284.000000	52.7	5.9	21.3	74.0	V
23088.000000	53.1	6.6	20.9	74.0	V
24218.000000	54.9	6.9	19.1	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19289.000000	39.5	5.3	14.5	54.0	V
21284.000000	40.9	5.9	13.1	54.0	V
23088.000000	41.2	6.6	12.8	54.0	V
24218.000000	43.1	6.9	10.9	54.0	V

Date: 26/07/2010 - Time: 22:01:26

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

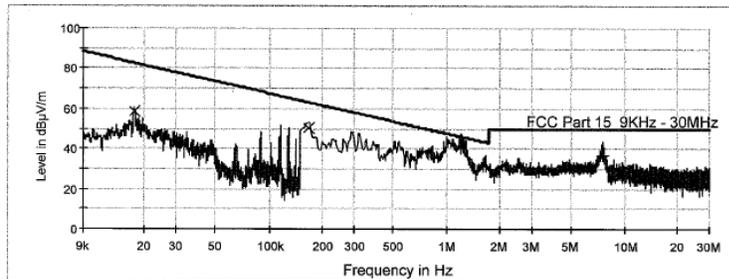
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.514000	36.9	---	21.9	V
1.210000	40.3	---	20.3	V
0.017560	---	58.6	20.7	V
0.166000	---	50.6	20.7	V

Date: 26/07/2010 - Time: 23:01:48

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

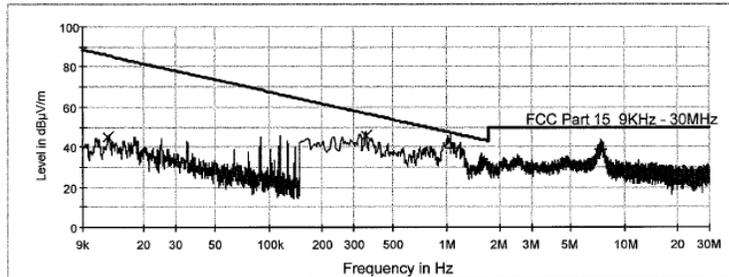
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.390000	38.6	---	21.9	H
1.058000	39.4	---	20.3	H
0.012520	---	44.7	20.1	H
0.354000	---	45.6	20.8	H

Date: 26/07/2010 - Time: 22:56:37

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

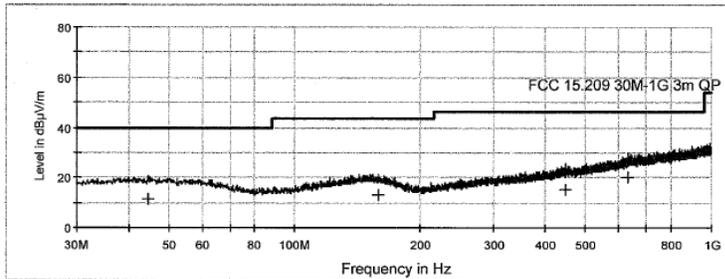
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
44.600000	11.6	14.5	28.4	40.0	V
159.000000	13.1	15.6	30.4	43.5	V
448.700000	15.3	18.8	30.7	46.0	V
634.100000	20.1	22.3	25.9	46.0	V

Date: 26/07/2010 - Time: 16:33:35

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

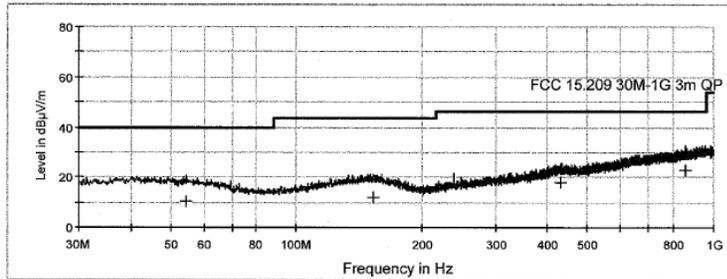
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
54.600000	10.5	14.0	29.5	40.0	H
153.200000	12.0	15.7	31.5	43.5	H
430.200000	17.8	18.3	28.2	46.0	H
856.700000	22.6	25.0	23.4	46.0	H

Date: 26/07/2010 - Time: 16:30:09

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

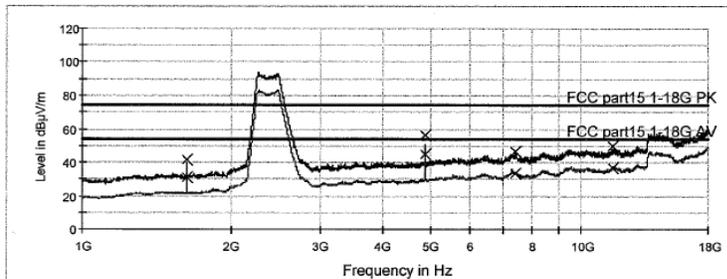
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 1 to 18G HF906



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1625.000000	41.7	-13.9	32.3	74.0	H
4882.000000	56.6	-5.6	17.4	74.0	H
7423.000000	46.6	0.8	27.4	74.0	H
11597.000000	49.5	5.4	24.5	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1625.000000	30.7	-13.9	23.3	54.0	H
4882.000000	45.3	-5.6	8.7	54.0	H
7423.000000	33.6	0.8	20.4	54.0	H
11597.000000	36.8	5.4	17.2	54.0	H

Date: 26/07/2010 - Time: 18:43:16

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

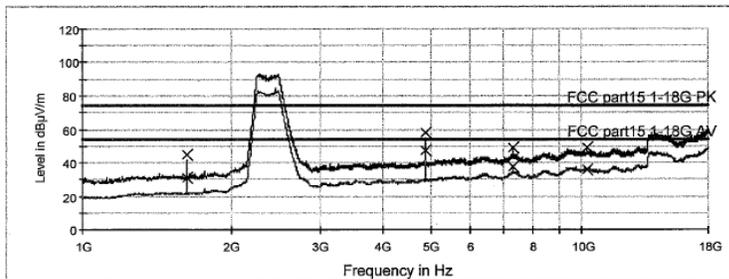
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 1 to 18G HF906



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1625.000000	45.3	-13.9	28.7	74.0	V
4882.000000	57.8	-5.6	16.2	74.0	V
7323.000000	49.1	0.4	24.9	74.0	V
10274.000000	48.7	5.4	25.3	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1625.000000	31.2	-13.9	22.8	54.0	V
4882.000000	47.5	-5.6	6.5	54.0	V
7323.000000	37.5	0.4	16.5	54.0	V
10274.000000	35.6	5.4	18.4	54.0	V

Date: 26/07/2010 - Time: 18:36:00

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

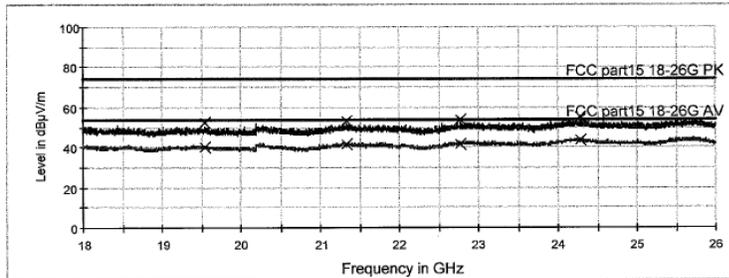
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19542.000000	52.4	5.4	21.6	74.0	V
21334.000000	53.0	5.9	21.0	74.0	V
22772.000000	53.7	6.4	20.3	74.0	V
24281.000000	55.0	6.9	19.0	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19542.000000	39.9	5.4	14.1	54.0	V
21334.000000	41.2	5.9	12.8	54.0	V
22772.000000	41.5	6.4	12.5	54.0	V
24281.000000	43.2	6.9	10.8	54.0	V

Date: 26/07/2010 - Time: 21:55:26

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

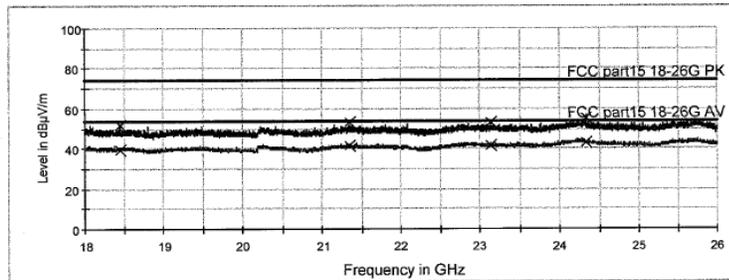
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18448.000000	51.6	4.9	22.4	74.0	H
21356.000000	52.8	5.9	21.2	74.0	H
23138.000000	53.3	6.6	20.7	74.0	H
24340.000000	54.9	6.9	19.1	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18448.000000	39.6	4.9	14.4	54.0	H
21356.000000	41.2	5.9	12.8	54.0	H
23138.000000	41.3	6.6	12.7	54.0	H
24340.000000	42.8	6.9	11.2	54.0	H

Date: 26/07/2010 - Time: 21:49:36

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

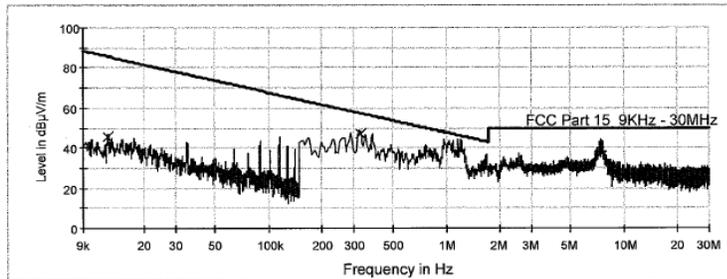
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.342000	37.8	---	21.9	H
1.166000	38.1	---	20.3	H
0.012520	---	45.3	20.1	H
0.326000	---	46.9	20.8	H

Date: 26/07/2010 - Time: 22:51:30

Tested by:  Reviewed by: \_\_\_\_\_



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

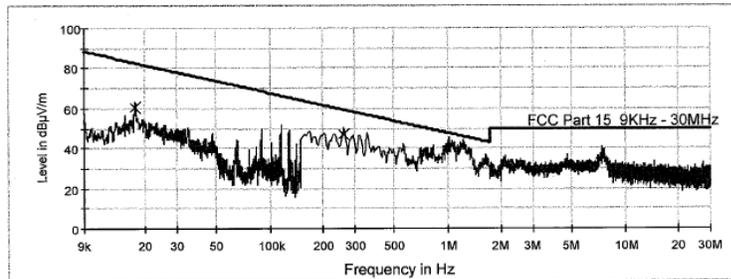
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.350000	34.4	---	21.9	V
1.014000	40.5	---	20.3	V
0.262000	---	47.2	20.9	V
0.017560	---	60.5	20.7	V

Date: 26/07/2010 - Time: 22:45:54

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

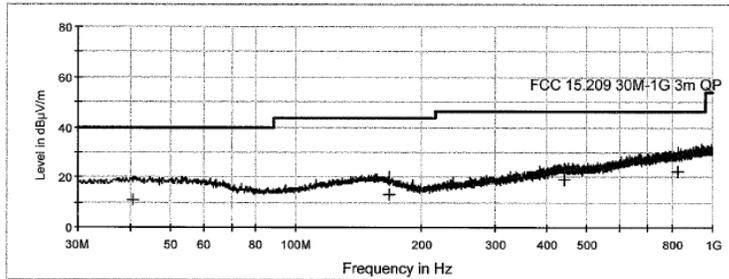
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
40.800000	11.0	14.7	29.0	40.0	H
167.500000	12.8	15.0	30.7	43.5	H
440.300000	18.8	18.5	27.2	46.0	H
827.700000	22.4	24.8	23.6	46.0	H

Date: 26/07/2010 - Time: 16:17:10

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

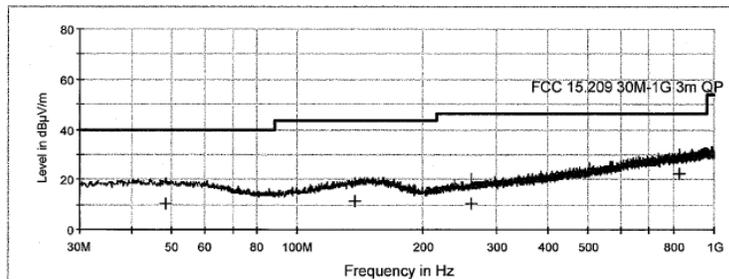
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
48.700000	10.2	14.3	29.8	40.0	V
137.900000	11.3	14.8	32.2	43.5	V
262.300000	10.2	13.8	35.8	46.0	V
828.900000	22.4	24.8	23.6	46.0	V

Date: 26/07/2010 - Time: 16:08:01

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

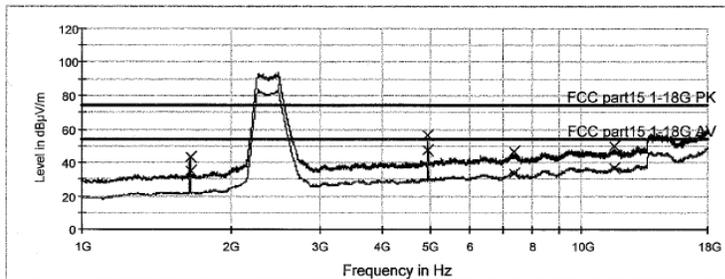
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 1 to 18G HF906



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1653.000000	43.6	-13.6	30.4	74.0	V
4960.000000	56.6	-5.8	17.4	74.0	V
7341.000000	46.8	0.5	27.2	74.0	V
11617.000000	49.6	5.2	24.4	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1653.000000	35.2	-13.6	18.8	54.0	V
4960.000000	47.5	-5.8	6.5	54.0	V
7341.000000	33.7	0.5	20.3	54.0	V
11617.000000	36.8	5.2	17.2	54.0	V

Date: 26/07/2010 - Time: 17:25:16

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

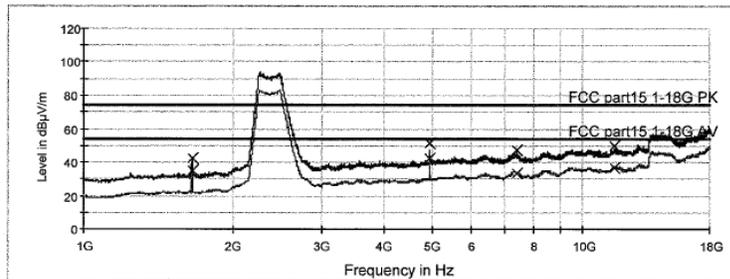
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 1 to 18G HF906



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1653.000000	42.8	-13.6	31.2	74.0	H
4960.000000	51.7	-5.8	22.3	74.0	H
7390.000000	47.6	0.5	26.4	74.0	H
11604.000000	49.7	5.3	24.3	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1653.000000	35.4	-13.6	18.6	54.0	H
4960.000000	42.1	-5.8	11.9	54.0	H
7390.000000	33.5	0.5	20.5	54.0	H
11604.000000	36.7	5.3	17.3	54.0	H

Date: 26/07/2010 - Time: 17:16:10

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

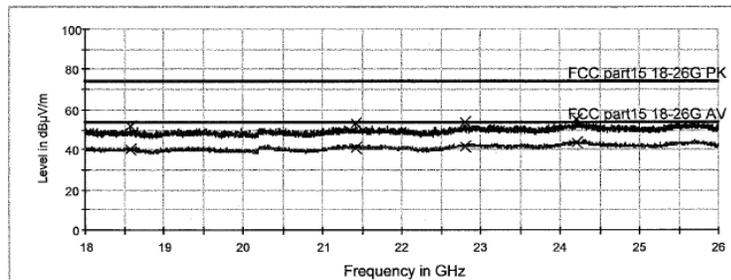
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18581.000000	51.9	5.0	22.1	74.0	H
21423.000000	53.2	5.9	20.8	74.0	H
22805.000000	53.4	6.4	20.6	74.0	H
24209.000000	55.3	6.9	18.7	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18581.000000	39.9	5.0	14.1	54.0	H
21423.000000	41.0	5.9	13.0	54.0	H
22805.000000	41.6	6.4	12.4	54.0	H
24209.000000	43.4	6.9	10.6	54.0	H

Date: 26/07/2010 - Time: 21:44:29

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

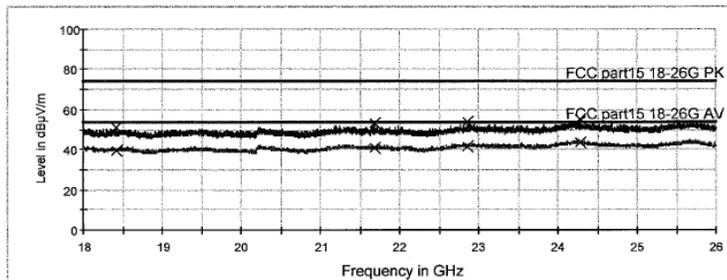
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Tx @ High channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18427.000000	51.3	4.9	22.7	74.0	V
21677.000000	53.1	6.0	20.9	74.0	V
22854.000000	53.9	6.4	20.1	74.0	V
24272.000000	55.2	6.9	18.8	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18427.000000	39.6	4.9	14.4	54.0	V
21677.000000	40.7	6.0	13.3	54.0	V
22854.000000	41.7	6.4	12.3	54.0	V
24272.000000	43.3	6.9	10.7	54.0	V

Date: 26/07/2010 - Time: 21:38:56

Tested by:

WDZ  
2010 7 26

Reviewed by:

WLC  
2010 7 27  
Checked

## Test Graph of Spurious Radiated Emission of mode A in restricted band

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

### EMC Test Record (EMISSION)

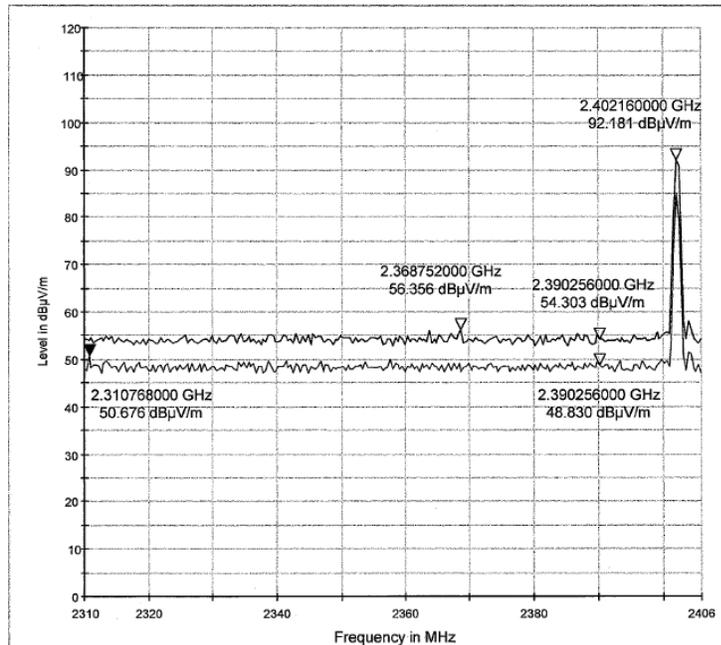
#### Test Information

Manufacturer:	PRIMAX
Test Item:	Bluetooth Headset
Identification:	RF-EX7
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	163065937 100
Report No.	17017065 001
Result:	
Comment:	Vertical

#### Subrange 1

Frequency Range:	2GHz – 3GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 26/07/2010 - Time: 19:22:43

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

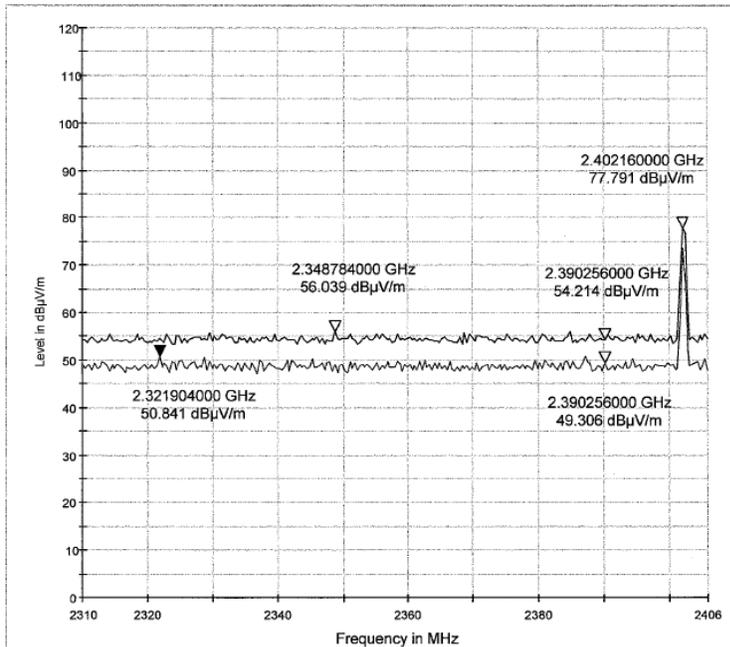
### Test Information

Manufacturer:	PRIMAX
Test Item:	Bluetooth Headset
Identification:	RF-EX7
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.:	DC 3.7V
Receipt No.:	163065937 100
Report No.:	17017065 001
Result:	
Comment:	Horizontal

#### Subrange 1

Frequency Range:	2GHz – 3GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 26/07/2010 - Time: 19:17:51

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

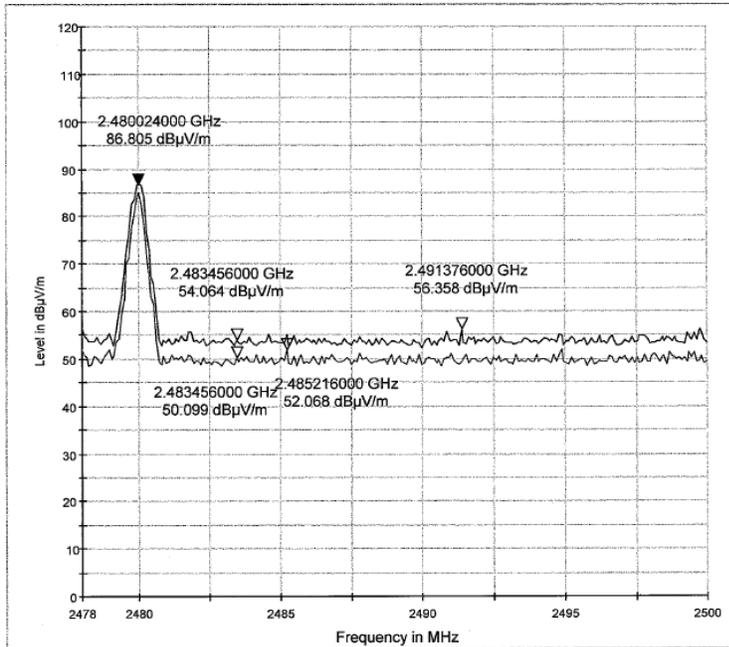
### Test Information

Manufacturer:	PRIMAX
Test Item:	Bluetooth Headset
Identification:	RF-EX7
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	163065937 100
Report No.	17017065 001
Result:	
Comment:	Horizontal

### Subrange 1

Frequency Range:	2GHz – 3GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 26/07/2010 - Time: 20:22:32

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

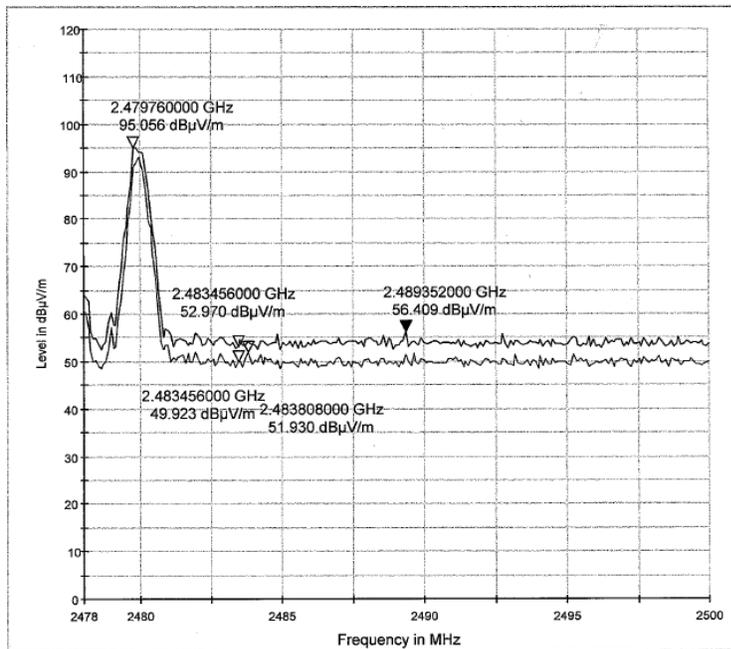
### Test Information

Manufacturer:	PRIMAX
Test Item:	Bluetooth Headset
Identification:	RF-EX7
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	163065937 100
Report No.	17017065 001
Result:	
Comment:	Vertical

### Subrange 1

Frequency Range:	2GHz – 3GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

Pre TUV 1 to 19G HF906



Date: 26/07/2010 - Time: 20:18:02

Tested by:  2010 726

Reviewed by:  2010 727

## Test Graph of Spurious Radiated Emission of mode B

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

### EMC Test Record (EMISSION)

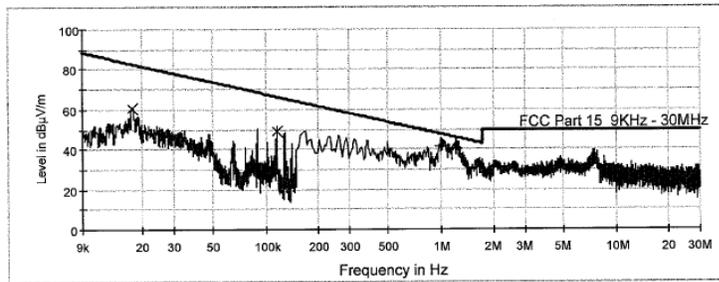
#### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Rx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



#### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.394000	34.1	---	21.9	V
1.010000	41.5	---	20.3	V
1.226000	40.4	---	20.3	V
0.114920	---	48.9	21.0	V
0.017560	---	60.6	20.7	V

Date: 26/07/2010 - Time: 22:41:01

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

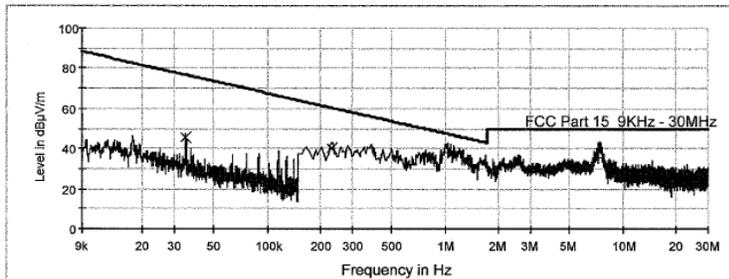
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Rx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No. 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 9K to 30M HFH2-Z2



### Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.262000	35.5	---	21.9	H
1.030000	37.9	---	20.3	H
0.034840	---	45.8	20.2	H
0.230000	---	40.2	20.9	H

Date: 26/07/2010 - Time: 22:31:35

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

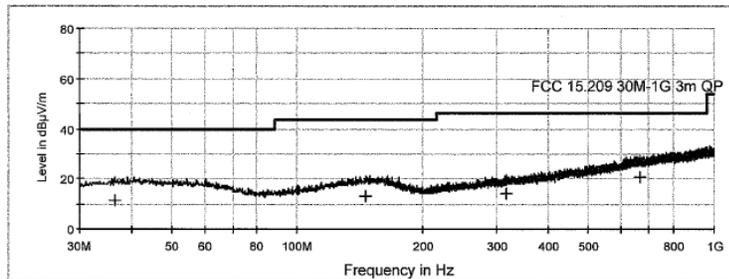
### Test Information

Manufacturer:	PRIMAX
Test Item:	Bluetooth Headset
Identification	RF-EX7
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Rx @ Mid channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	163065937 100
Report No.	17017065 001
Result:	Pass
Comment:	Vertical

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
36.600000	11.6	14.3	28.4	40.0	V
146.500000	13.3	15.4	30.2	43.5	V
318.100000	14.2	15.5	31.8	46.0	V
667.100000	20.6	22.8	25.4	46.0	V

Date: 26/07/2010 - Time: 16:56:22

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

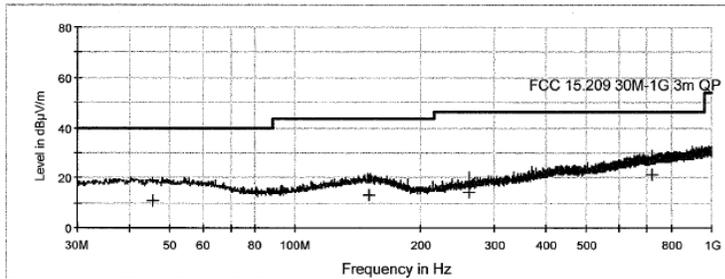
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Rx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
45.800000	11.1	14.4	28.9	40.0	H
150.900000	13.2	15.7	30.3	43.5	H
262.600000	14.4	13.8	31.6	46.0	H
716.700000	21.1	23.5	24.9	46.0	H

Date: 26/07/2010 - Time: 16:51:46

Tested by:



Reviewed by: \_\_\_\_\_



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

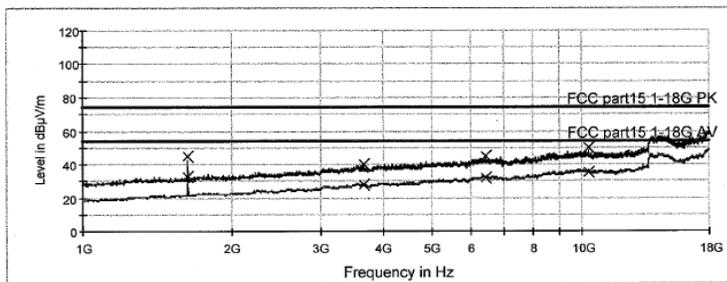
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Rx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 1 to 18G HF906



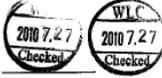
### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1627.000000	45.3	-14.7	28.7	74.0	V
3652.000000	40.2	-7.7	33.8	74.0	V
6421.000000	45.0	-2.4	29.0	74.0	V
10329.000000	49.5	5.0	24.5	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1627.000000	32.9	-14.7	21.1	54.0	V
3652.000000	27.4	-7.7	26.6	54.0	V
6421.000000	32.2	-2.4	21.8	54.0	V
10329.000000	35.3	5.0	18.7	54.0	V

Date: 26/07/2010 - Time: 21:04:27

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

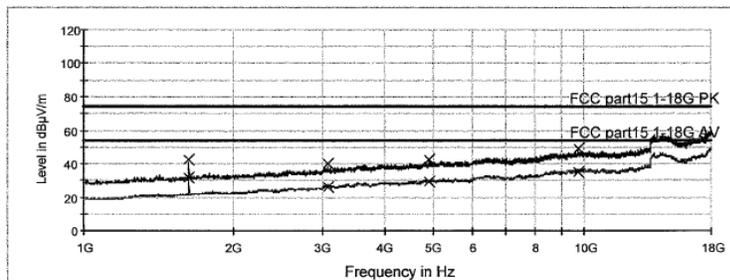
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Rx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 1 to 18G HF906



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1627.000000	42.2	-14.7	31.8	74.0	H
3076.000000	40.1	-9.7	33.9	74.0	H
4908.000000	42.3	-6.0	31.7	74.0	H
9738.000000	48.8	4.5	25.2	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
1627.000000	31.6	-14.7	22.4	54.0	H
3076.000000	25.8	-9.7	28.2	54.0	H
4908.000000	29.1	-6.0	24.9	54.0	H
9738.000000	35.3	4.5	18.7	54.0	H

Date: 26/07/2010 - Time: 20:58:25

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

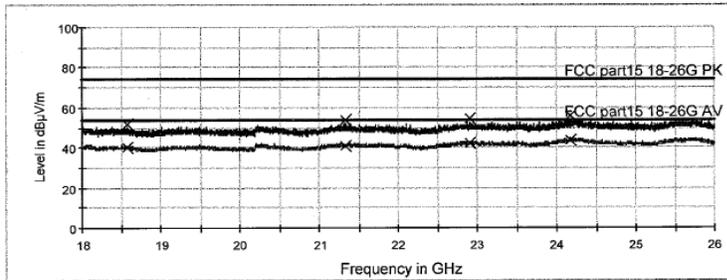
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Rx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18575.000000	51.6	5.0	22.4	74.0	V
21336.000000	53.5	5.9	20.5	74.0	V
22910.000000	54.2	6.5	19.8	74.0	V
24183.000000	55.8	6.9	18.2	74.0	V

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
18575.000000	40.1	5.0	13.9	54.0	V
21336.000000	41.1	5.9	12.9	54.0	V
22910.000000	42.0	6.5	12.0	54.0	V
24183.000000	43.2	6.9	10.8	54.0	V

Date: 26/07/2010 - Time: 21:29:23

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

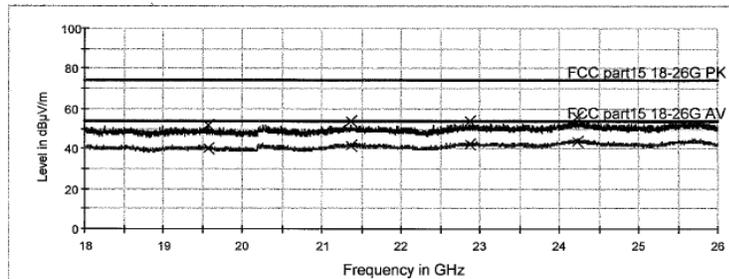
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: Rx @ Mid channel  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

Pre TUV 18 to 26.5 3160-09



### Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19585.000000	52.0	5.5	22.0	74.0	H
21366.000000	53.6	5.9	20.4	74.0	H
22873.000000	53.6	6.4	20.4	74.0	H
24222.000000	55.6	6.9	18.4	74.0	H

### Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
19585.000000	40.0	5.5	14.0	54.0	H
21366.000000	41.4	5.9	12.6	54.0	H
22873.000000	42.0	6.4	12.0	54.0	H
24222.000000	43.5	6.9	10.5	54.0	H

Date: 26/07/2010 - Time: 21:22:47

Tested by:  Reviewed by: 

## Test Graph of Radiated Emission of mode D

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

### EMC Test Record (EMISSION)

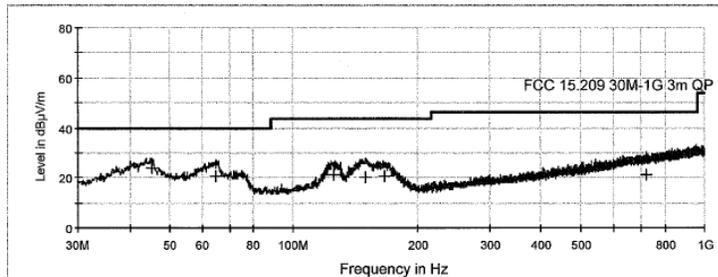
#### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: D  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: AC 120V / 60Hz  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

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

FCC 15.209 30M-1G sweep



#### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
45.300000	23.9	14.4	16.1	40.0	V
65.100000	20.9	12.7	19.1	40.0	V
125.600000	21.3	13.9	22.2	43.5	V
149.800000	20.2	15.7	23.3	43.5	V
166.600000	20.9	15.1	22.6	43.5	V
721.500000	21.2	23.5	24.8	46.0	V

Date: 26/07/2010 - Time: 15:33:20

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

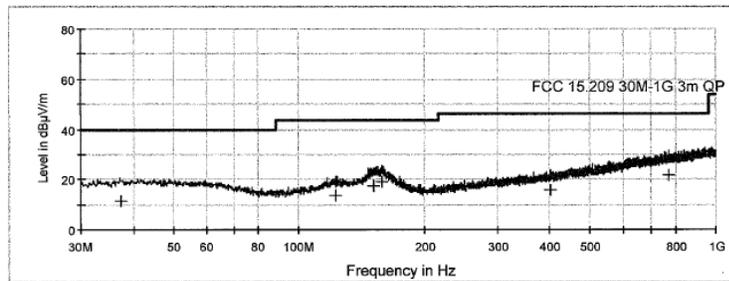
### Test Information

Manufacturer: PRIMAX  
 Test Item: Bluetooth Headset  
 Identification: RF-EX7  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: D  
 Climate Condition: 23 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq.: AC 120V / 60Hz  
 Receipt No.: 163065937 100  
 Report No.: 17017065 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

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

FCC 15.209 30M-1G sweep



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
37.500000	11.3	14.4	28.7	40.0	H
123.100000	13.7	13.8	29.8	43.5	H
150.700000	17.2	15.7	26.3	43.5	H
157.800000	19.0	15.6	24.5	43.5	H
403.200000	15.8	17.4	30.2	46.0	H
772.800000	21.9	24.3	24.1	46.0	H

Date: 26/07/2010 - Time: 15:24:27

Tested by:  Reviewed by: 

## Test Graph of Conducted Emission of mode D

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

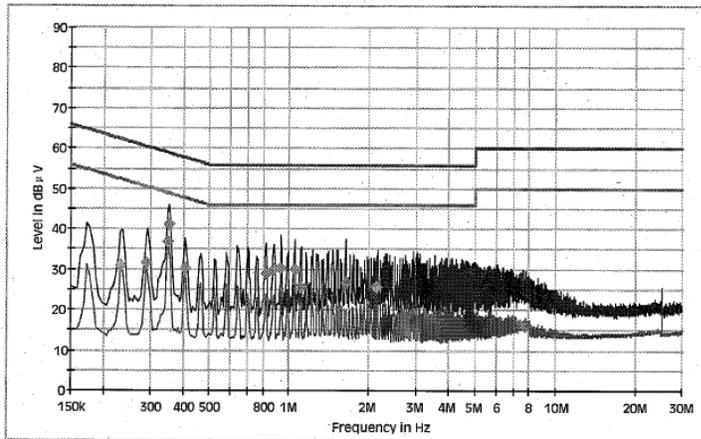
### EMC Test Record (EMISSION)

#### Test Information

Manufacturer: PRIMAX  
Test Item: Bluetooth Headset  
Identification: RF-EX7  
Test Standard: FCC Part 15  
Test Detail: Conducted Emission  
Operation Mode: D  
Climate Condition: 22°C; 52 %RH; 101 kPa.  
Test Voltage/ Freq.: AC120 V/ 60 Hz  
Port / Line: AC Mains  
Receipt No.: 163065937 100  
Report No.: 17017065 001  
Result: Pass  
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30  
Level Unit: dB  $\mu$  V

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



2010-7-26, 23:47:24

Tested by:



Reviewed by:



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**Final Measurement Detector 2**

Frequency (MHz)	Average (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line
0.231000	30.8	1000.000	9.000	GND	L1
0.289500	31.6	1000.000	9.000	GND	N
0.348000	36.8	1000.000	9.000	GND	N
0.406500	30.1	1000.000	9.000	GND	L1
1.104000	25.7	1000.000	9.000	GND	L1
2.143500	25.6	1000.000	9.000	GND	L1

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

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.231000	10.1	21.6	52.4	
0.289500	9.9	18.9	50.5	
0.348000	9.9	12.2	49.0	
0.406500	10.0	17.6	47.7	
1.104000	9.9	20.3	46.0	
2.143500	10.1	20.4	46.0	

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line
0.352500	40.9	1000.000	9.000	GND	N
0.816000	28.7	1000.000	9.000	GND	L1
0.874500	29.8	1000.000	9.000	GND	N
0.933000	30.3	1000.000	9.000	GND	L1
1.050000	29.9	1000.000	9.000	GND	L1
1.630500	26.7	1000.000	9.000	GND	L1

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

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.352500	10.0	18.0	58.9	
0.816000	10.7	27.3	56.0	
0.874500	10.5	26.2	56.0	
0.933000	10.3	25.7	56.0	
1.050000	10.0	26.1	56.0	
1.630500	10.1	29.3	56.0	

2010-7-26, 23:47:24

Tested by:



Reviewed by:

