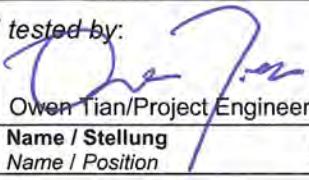


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<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	29.09.2013		
<b>Auftraggeber:</b> <i>Client:</i>	Jazz Hipster Corporation, 2Fd, No.512, Yuan-San Rd.C, hung-Ho City, Taipei Hsien, Taiwan				
<b>Prüfgegenstand:</b> <i>Test item:</i>	2.1 Bluetooth Desktop Speaker System				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	NS-PSB4521				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC/IC Certification				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-Gen Issue 3 December 2010 FCC KDB Publication 447498 v05r01	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart B Section 15.107 RSS-210 Issue 8 December 2010 ICES-003 Issue 5 August 2012 RSS-102 Issue 4 March 2010			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	10.10.2013				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	N/A				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	15.10.2013 - 18.10.2013				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Accurate Technology Co., Ltd.				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>geprüft von / tested by:</b>  30.10.2013 Owen Tian/Project Engineer		<b>kontrolliert von / reviewed by:</b>  30.10.2013 Sam Lin/Technical Certicier			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
<b>Sonstiges / Other:</b>					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft  P(ass) = entspricht o.g. Prüfgrundlage(n) F(all) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</p> <p>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor  P(ass) = passed a.m. test specification(s) F(all) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>					
<p><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 only 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 test mark.</i></p>					

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## TEST SUMMARY

### 5.1.1 ANTENNA REQUIREMENT

*RESULT:* Pass

### 5.1.2 PEAK OUTPUT POWER

*RESULT:* Pass

### 5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH

*RESULT:* Pass

### 5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH

*RESULT:* Pass

### 5.1.5 SPURIOUS EMISSION

*RESULT:* Pass

### 5.1.6 FREQUENCY SEPARATION

*RESULT:* Pass

### 5.1.7 NUMBER OF HOPPING FREQUENCY

*RESULT:* Pass

### 5.1.8 TIME OF OCCUPANCY

*RESULT:* Pass

### 5.1.9 CONDUCTED EMISSIONS

*RESULT:* Pass

### 5.1.10 RADIATED EMISSIONS

*RESULT:* Pass

### 6.1.1 ELECTROMAGNETIC FIELDS

*RESULT:* Pass

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## 1. General Remarks

### 1.1 Complementary Materials

None.

## 2. Test Sites

### 2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)  
(Test site Industry Canada No.: 5077A-2)

F1, Bldg. A, Changyuan New Material Port  
Keyuan Rd., Science & Industry Park, Nanshan  
Shenzhen, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

## 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>Transmitter spurious emissions &amp; Receiver spurious emissions</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2014-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-07
RF Coaxial Cable	SUHNER	N-3m	No.8	2014-01-07
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2014-01-07
RF Coaxial Cable	SUHNER	N-6m	No.10	2014-01-07
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2014-01-07
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2014-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2014-01-07
<b>Radio Spectrum Test</b>				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2014-01-07
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-07
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2014-01-07
<b>Conducted Emission</b>				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2014-01-07
L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	2014-01-07
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2014-01-07
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014-01-07
RF Coaxial Cable	SUHNER	N-2m	No.3	2014-01-07
<b>Radiated Emission</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2014-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-07
RF Coaxial Cable	SUHNER	N-3m	No.8	2014-01-07
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2014-01-07
RF Coaxial Cable	SUHNER	N-6m	No.10	2014-01-07
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2014-01-07
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2014-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2014-01-07

## 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

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty
Radio Spectrum	< ± 0.60 dB
Radiated emission of transmitter, valid up to 12.75 GHz	< ± 4.42 dB
Radiated emission of receiver, valid up to 12.75 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 4.42 dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China and 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 a Bluetooth 2.1 speaker system used for audio entertainment in house or similar environment. It operates at 2.4GHz ISM frequency band.  
For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Bluetooth Speaker
Type Designation	NS-PSB4521
FCC ID	TQYBSMS5322WA00
IC	6233A-BS5322WA
Bluetooth version	3.0 + EDR
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-20~+45°C
Operation Voltage	AC 120V, 60Hz
Modulation	GFSK, 8DPSK, $\pi/4$ DQPSK
Antenna Gain	0dBi

#### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On
  - 1. Bluetooth mode
    - a. Transmitting
    - b. Receiving
  - 2. AUX input
- B. Off

#### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

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### 3.5 Submitted Documents

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

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

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

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2009.

### 4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
iPod	Apple	A1238	8K039T1Y9ZU

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
Line input	2 cores, non-shielded port, 3m	Audio Input

### 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

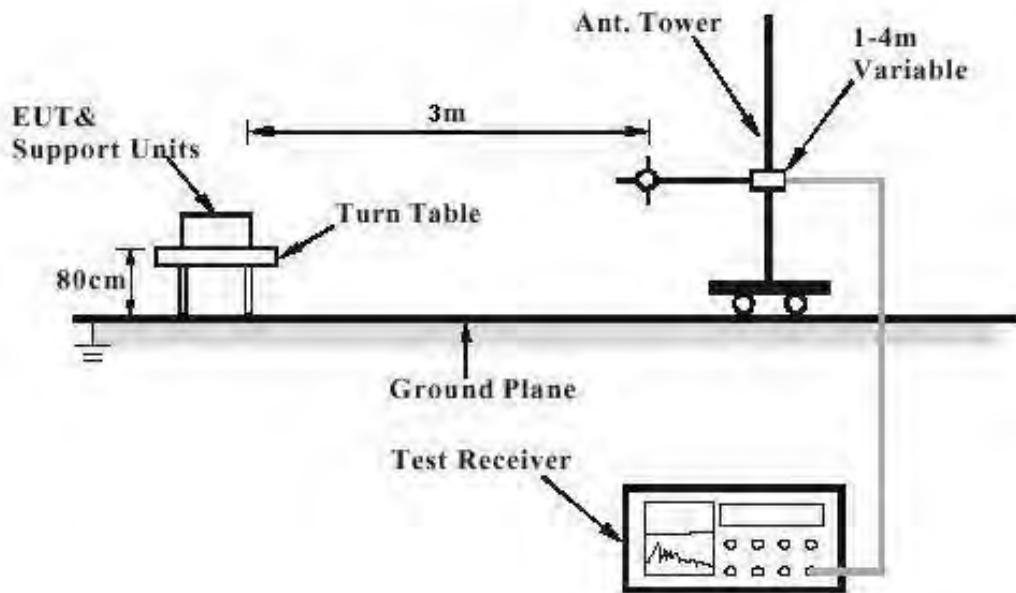
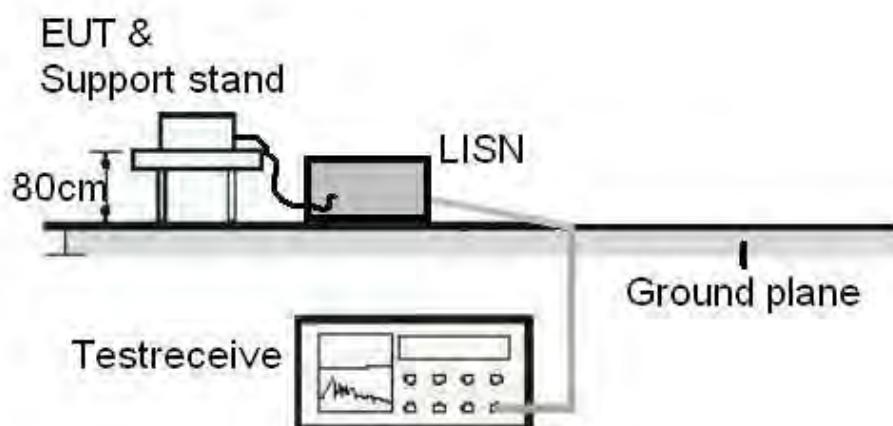


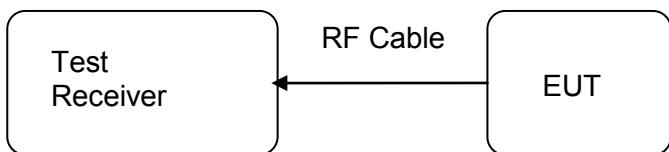
Diagram of Measurement Equipment Configuration for Conduction Measurement



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



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:** Pass

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 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0dBi, therefore the EUT is considered sufficient to comply with the provision.

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*Test Report No.*Seite 14 von 94  
Page 14 of 94**5.1.2 Peak Output Power****RESULT:****Pass**

Test date	:	2013-10-15
Test standard	:	FCC Part 15.247(b)(1) RSS-210 A8.4(2)
Basic standard	:	ANSI C63.4: 2009
Limit	:	21dBm/125mW
Kind of test site	:	Shielded room

**Test setup**

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

**Table 4: Test result of Peak Output Power**

Channel	Channel Frequency (MHz)	Peak Output Power (dBm)		Limit (dBm)
		BDR	EDR	
Low Channel	2402	-4.02	-3.31	21
Middle Channel	2441	-5.24	-4.47	21
High Channel	2480	-6.30	-5.51	21

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### 5.1.3 20dB Bandwidth and 99% Bandwidth

**RESULT:**
**Pass**

Date of testing : 2013-10-15  
 Test standard : FCC Part 15.247(a)(1)  
                   RSS-210 A8.1(a)  
 Basic standard : ANSI C63.4: 2009  
 Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
 Operation Mode : A.1.a  
 Ambient temperature : 25°C  
 Relative humidity : 52%  
 Atmospheric pressure : 101kPa

**Table 5: Test result of 20dB & 99% Bandwidth**

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)		99% Bandwidth (MHz)	
		BDR	EDR	BDR	EDR
Low Channel	2402	0.894	1.248	0.996	1.398
Mid Channel	2441	0.888	1.236	0.996	1.338
High Channel	2480	0.888	1.242	0.984	1.302

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

#### RESULT:

Pass

Date of testing : 2013-10-15  
Test standard : FCC part 15.247(d)  
Basic standard : RSS-210 A8.5  
Limit : ANSI C63.4: 2009  
Kind of test site : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);  
Shield room

#### Test setup

Test Channel : Low/ Middle/ High  
Operation mode : A.1.a  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

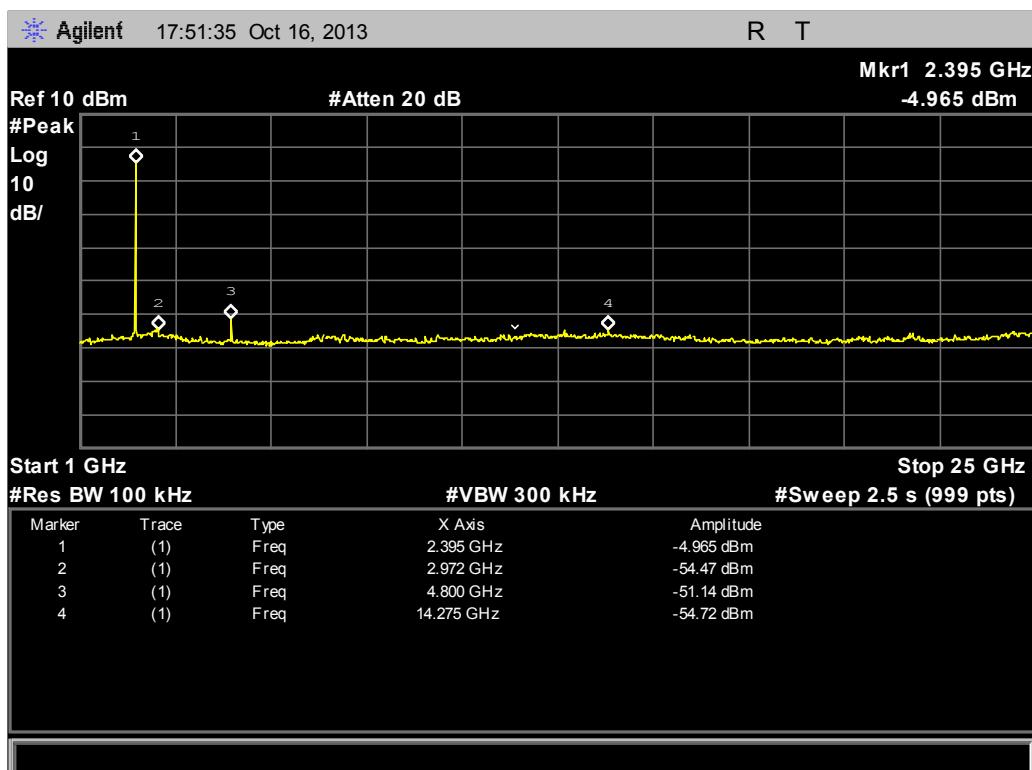
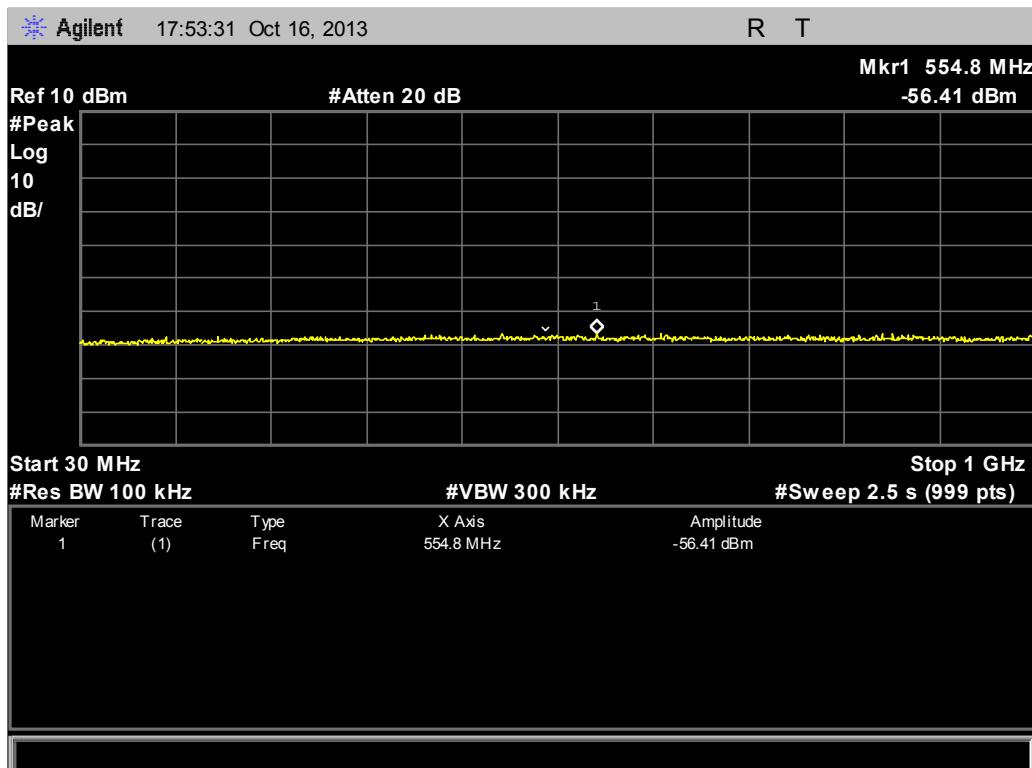
All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

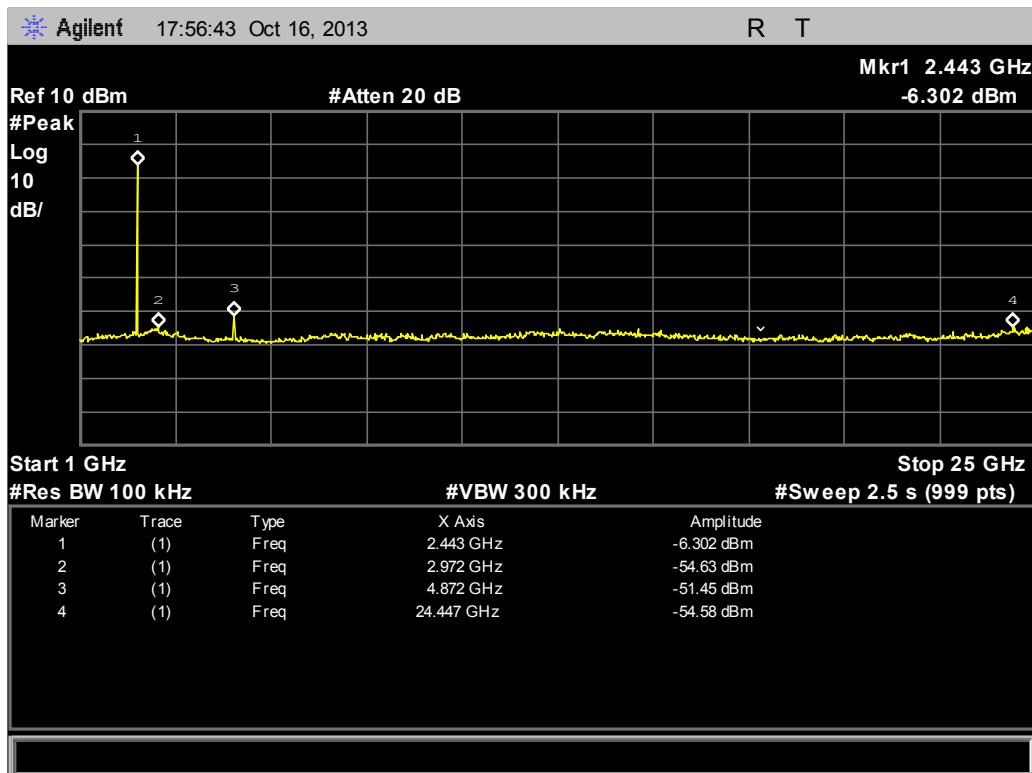
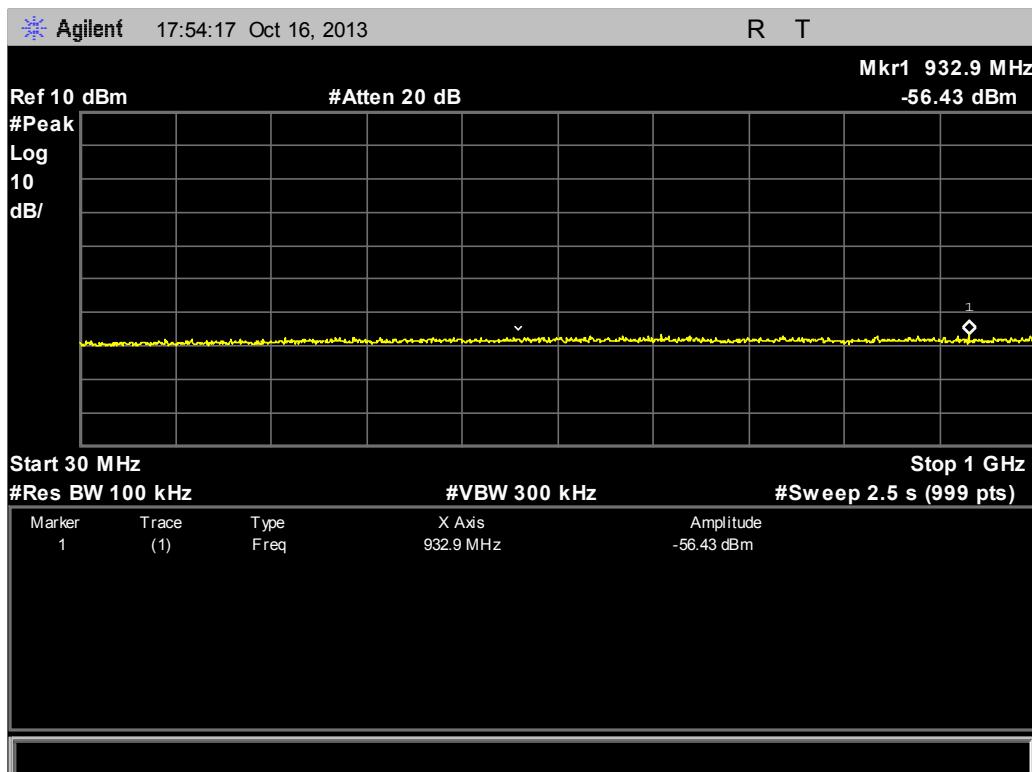
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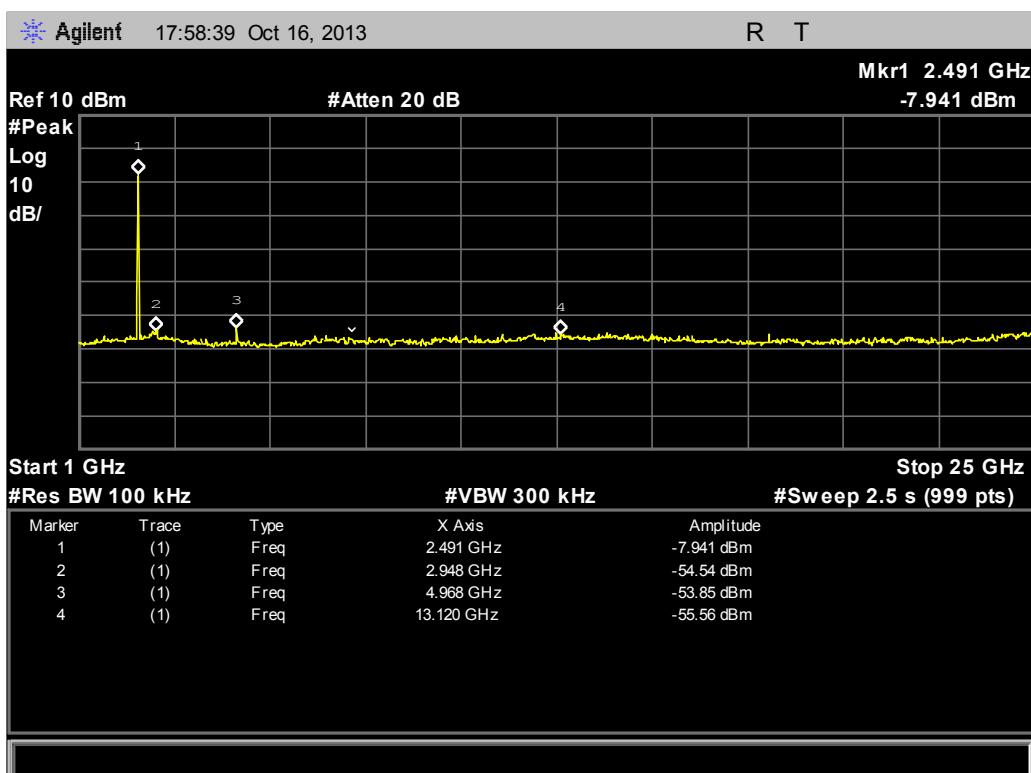
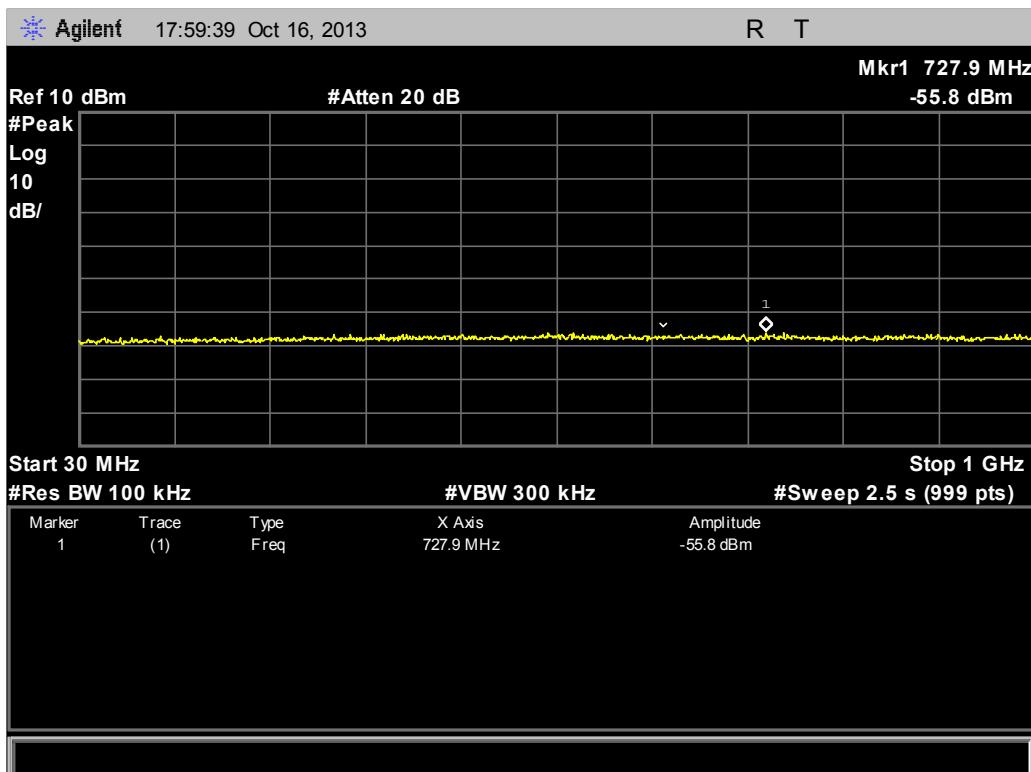
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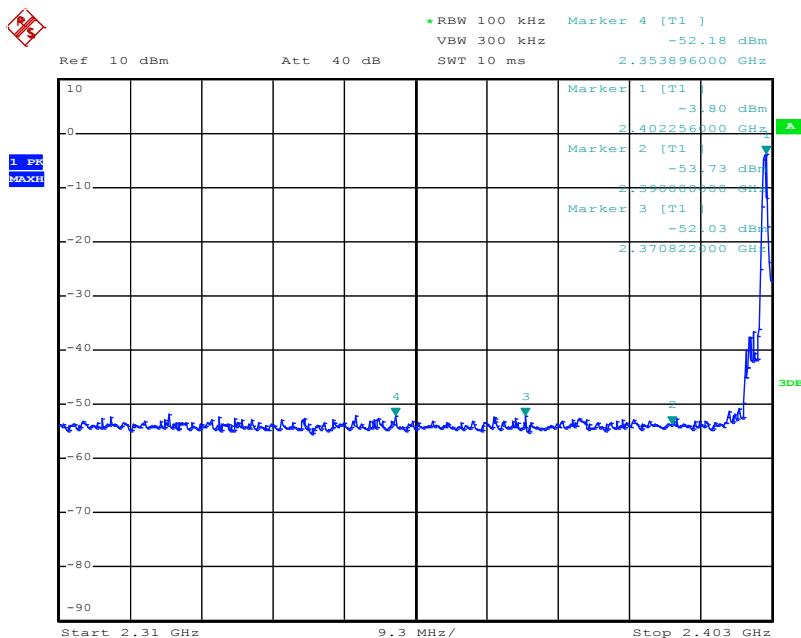
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode**

**Low Channel**

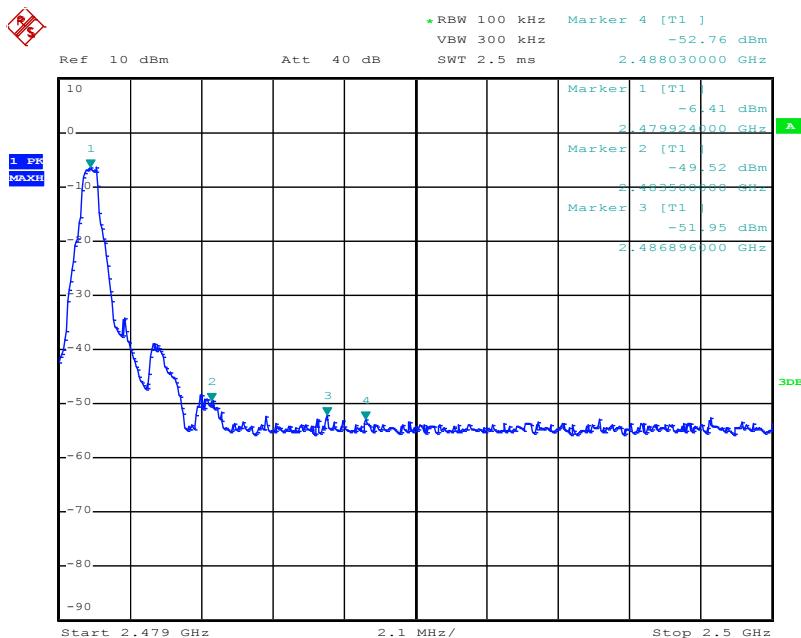


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**Middle Channel**


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**High Channel**


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**Test Plot of 100 kHz Bandwidth of Frequency Band Edge**
**Low Channel**


Date: 15.OCT.2013 15:59:10

**High Channel**


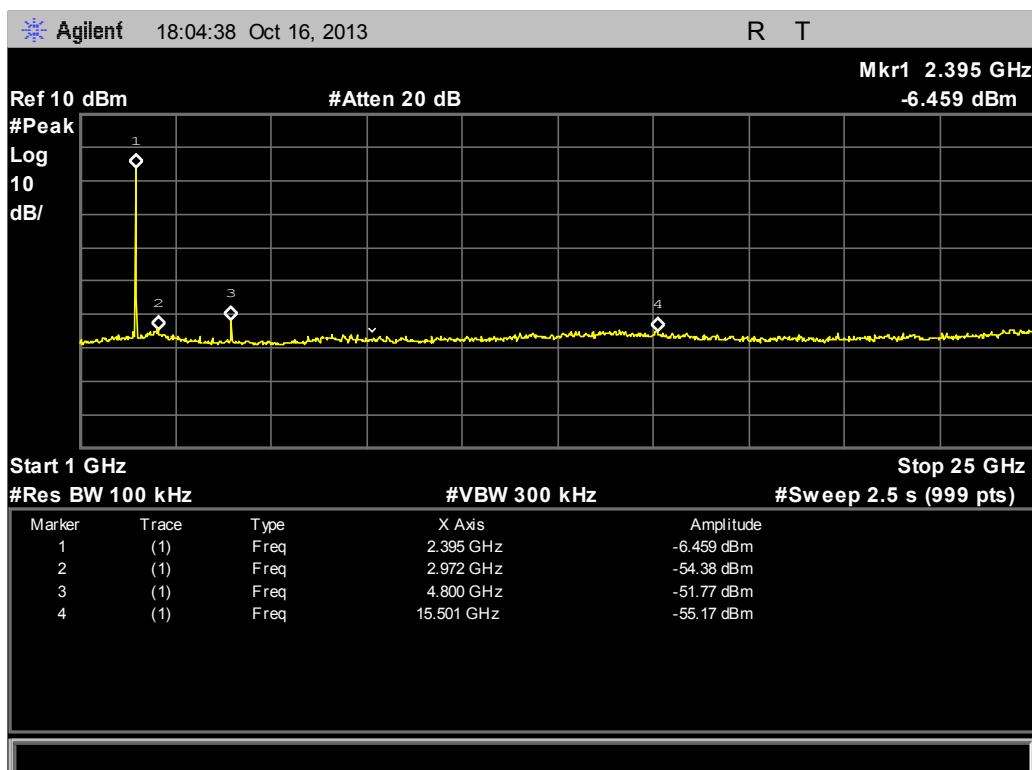
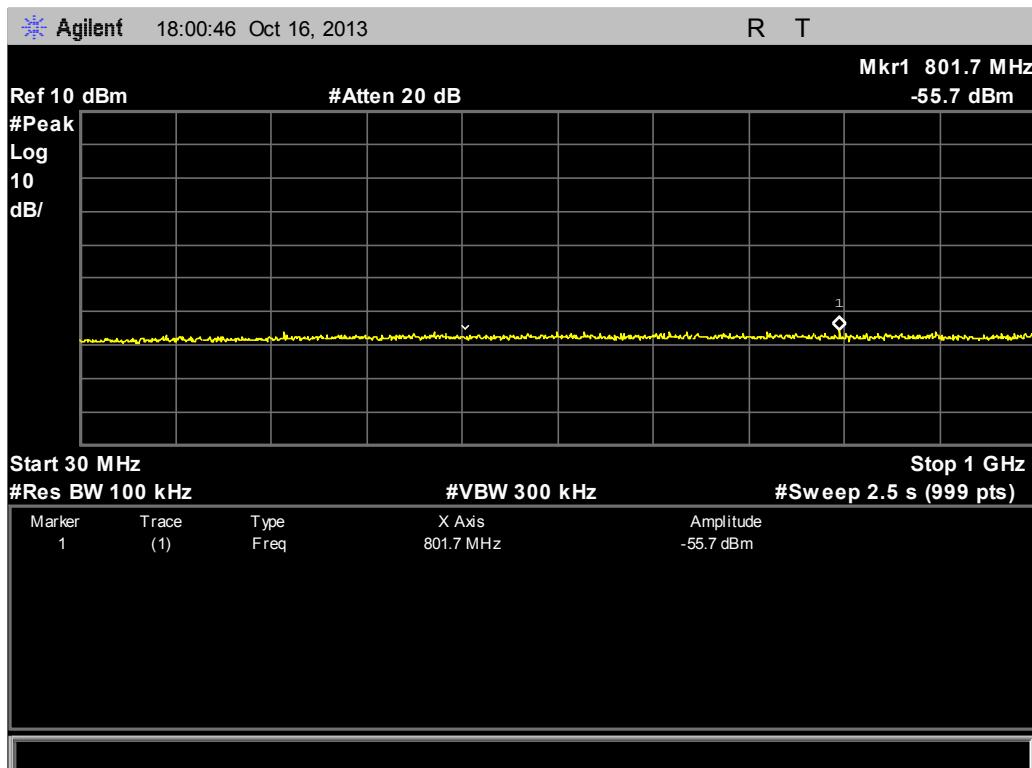
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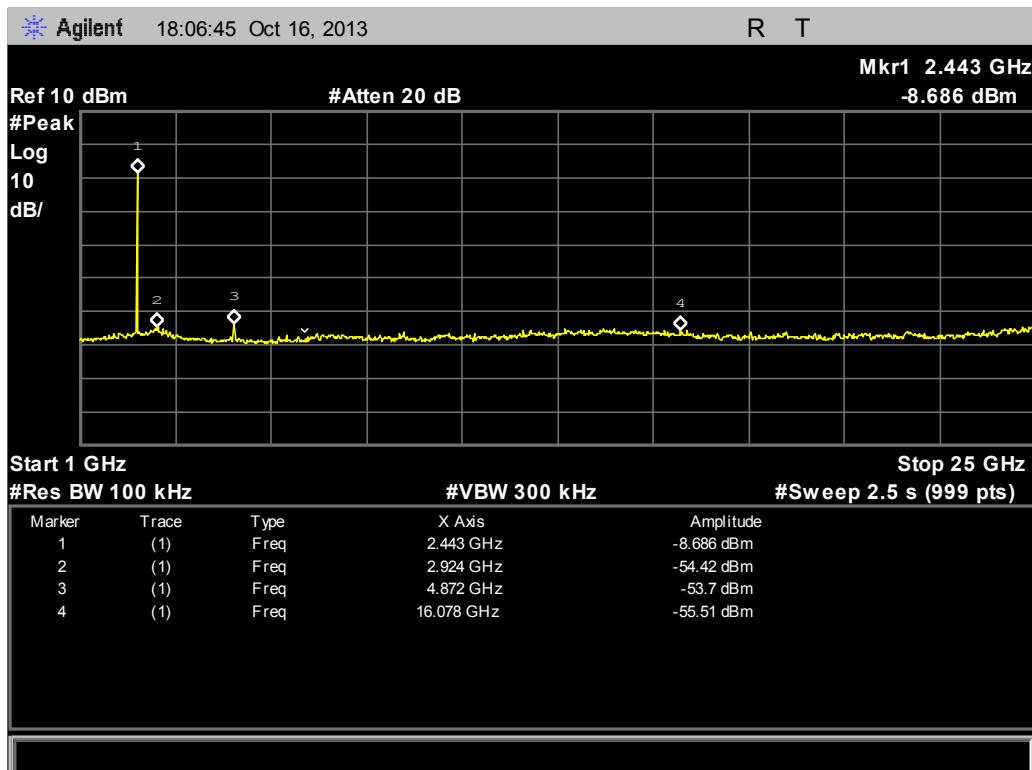
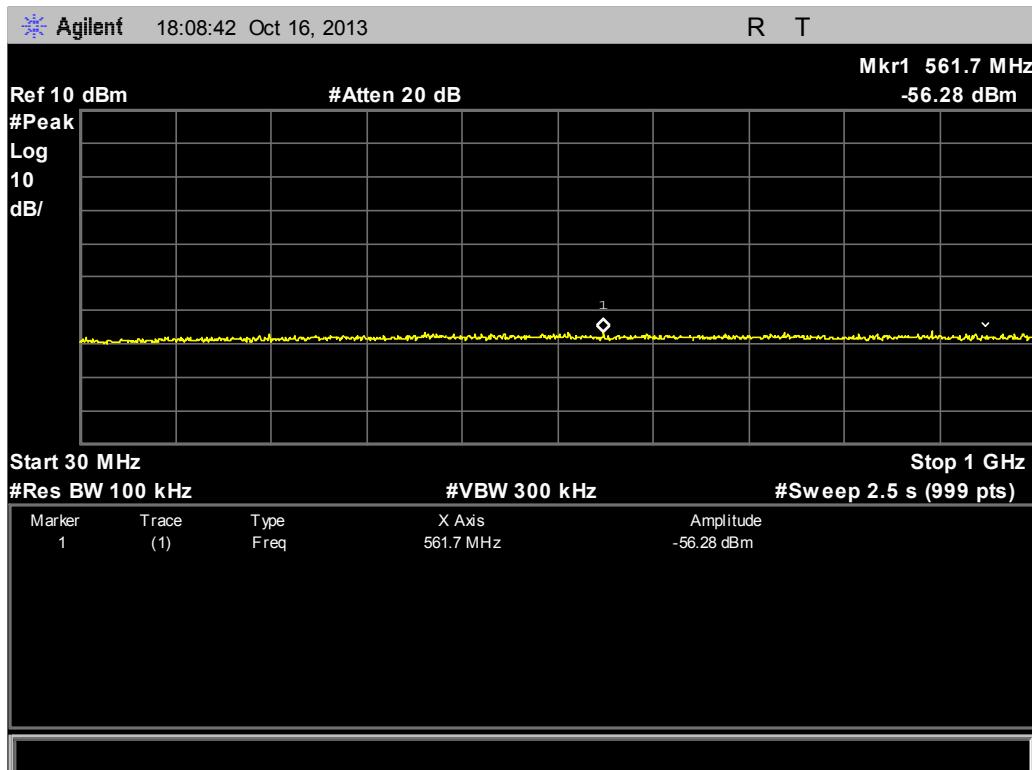
**Prüfbericht - Nr.: 17035972 001**  
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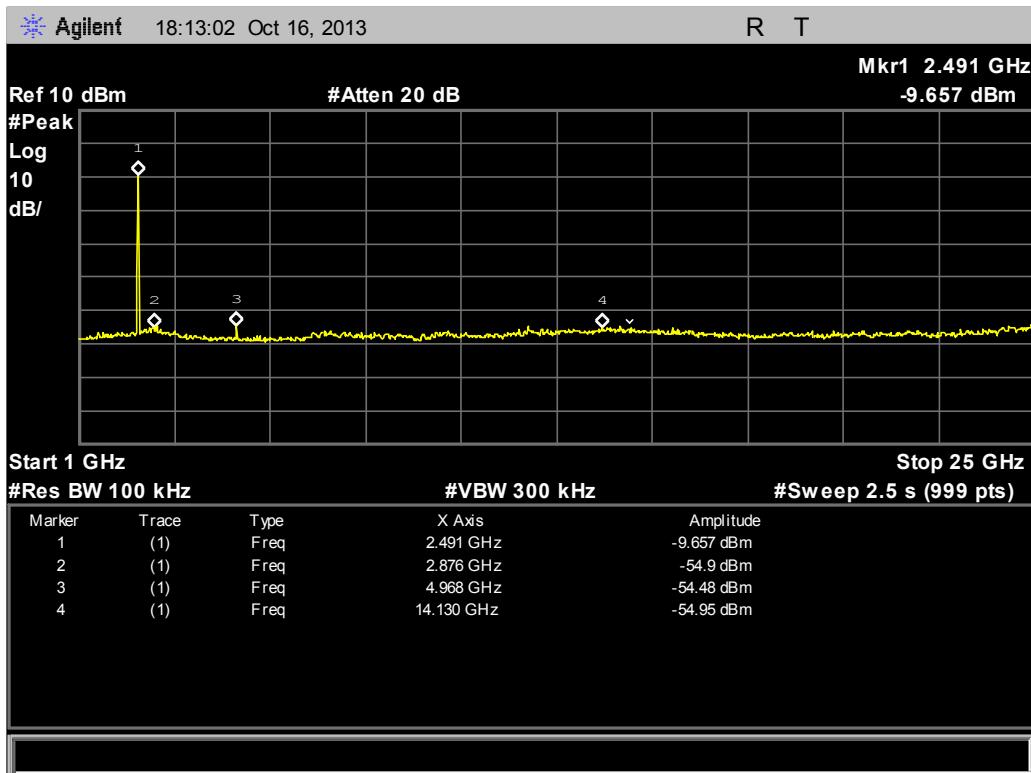
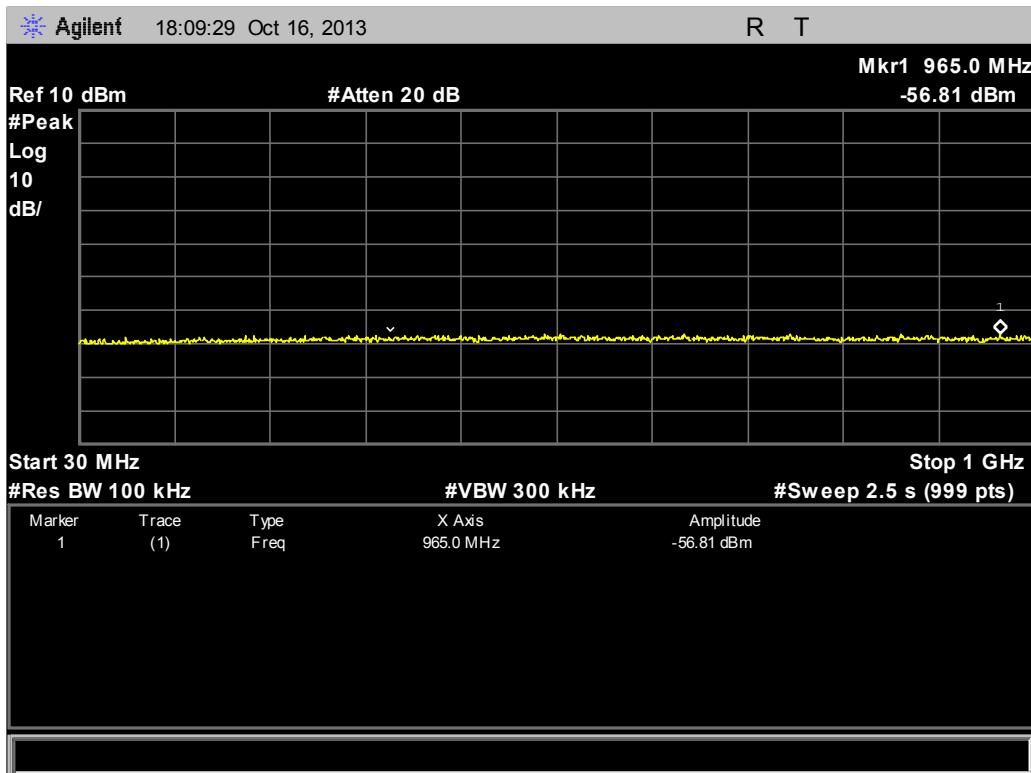
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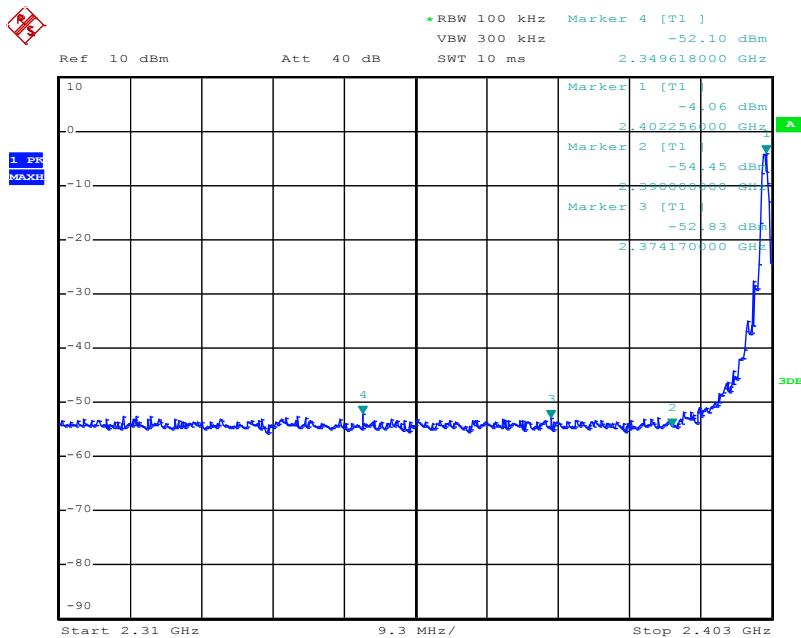
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode**

**Low Channel**

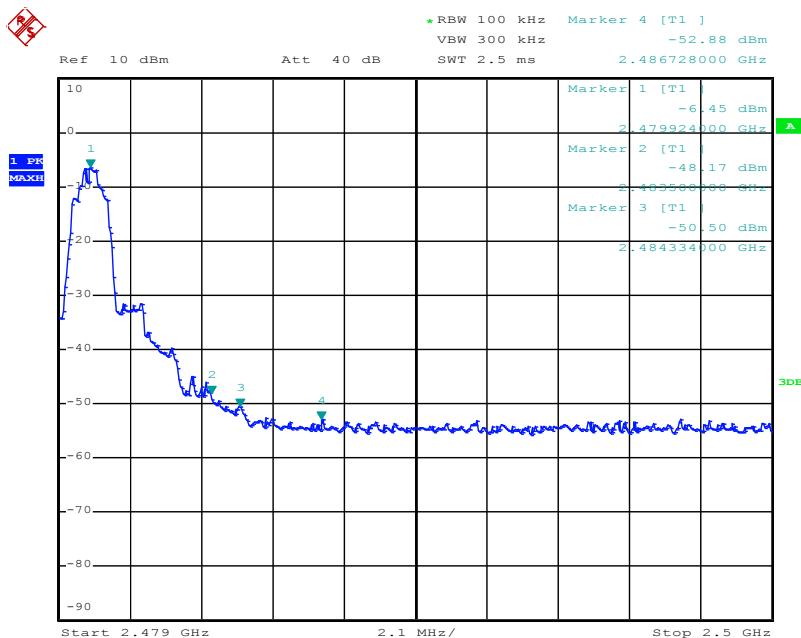


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**Middle Channel**


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**Test Plot of 100 kHz Bandwidth of Frequency Band Edge**
**Low Channel**


Date: 15.OCT.2013 16:00:16

**High Channel**


Date: 15.OCT.2013 16:01:45

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### 5.1.5 Spurious Emission

#### RESULT:

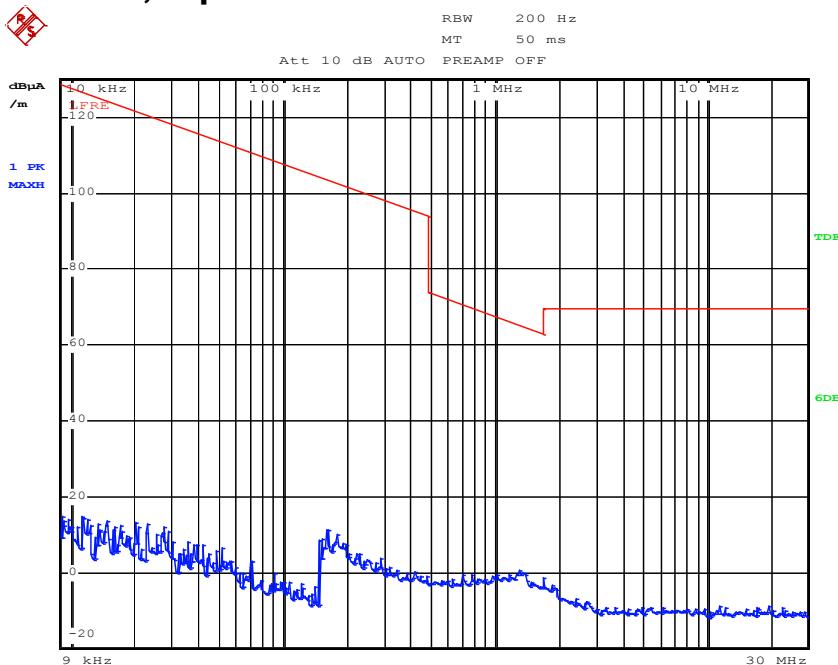
Pass

Date of testing : 2013-10-16  
Test standard : FCC part 15.247(d)  
Basic standard : RSS-210 Clause 2.2  
Limits : ANSI C63.4: 2009  
Kind of test site : FCC part 15.209(a)  
3m Semi-Anechoic Chamber

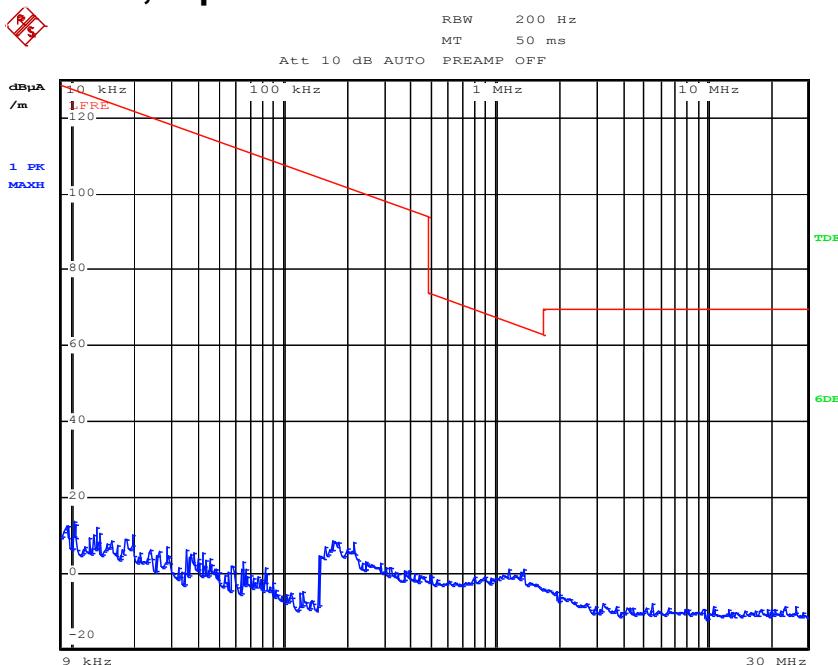
#### Test setup

Test Channel : Low/ Middle/ High  
Operation mode : A.1.a, A.1.b  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

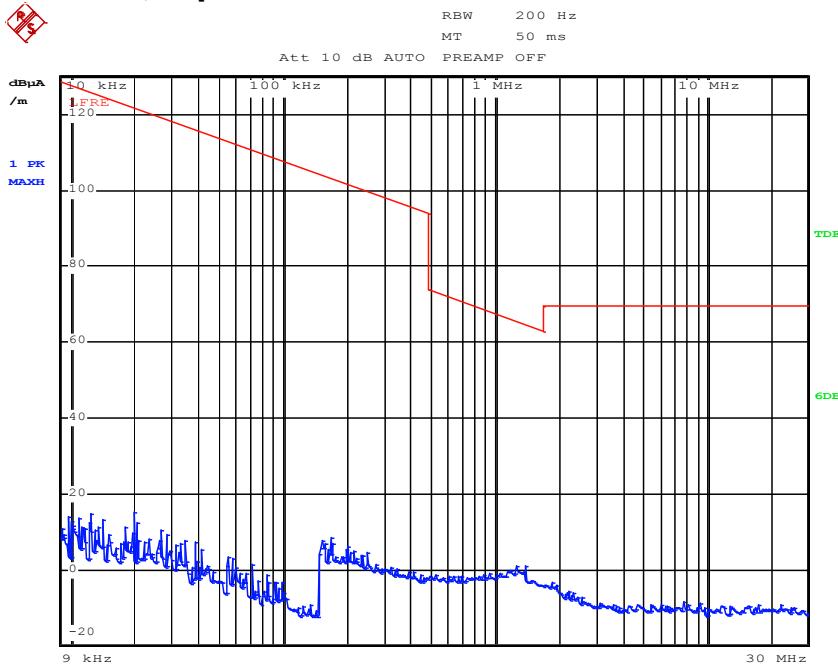
For details refer to following test plot.

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*Test Report No.*
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**Test Plot of Spurious Emission of transmitting  
Low channel, X polarization:**


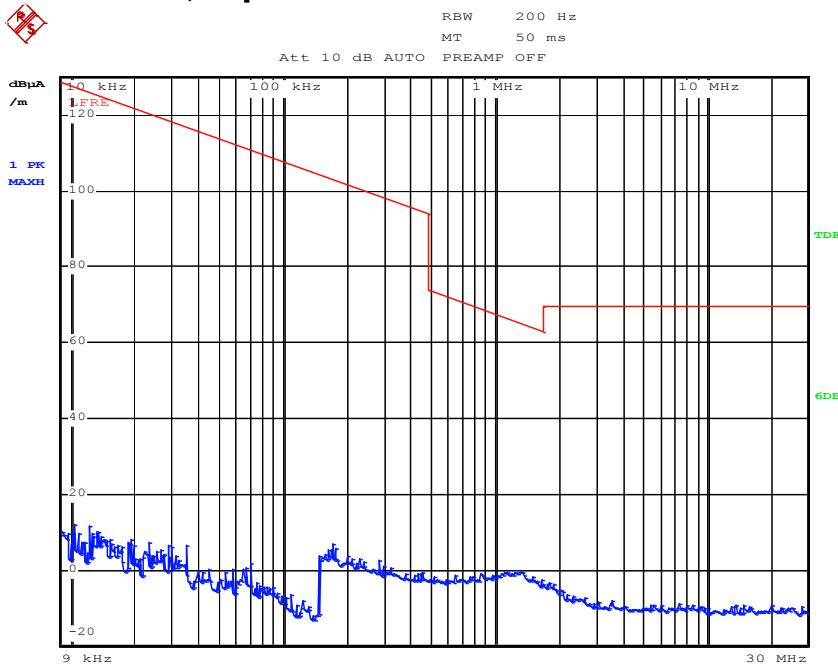
Date: 16.OCT.2013 09:36:15

**Low channel, Y polarization:**


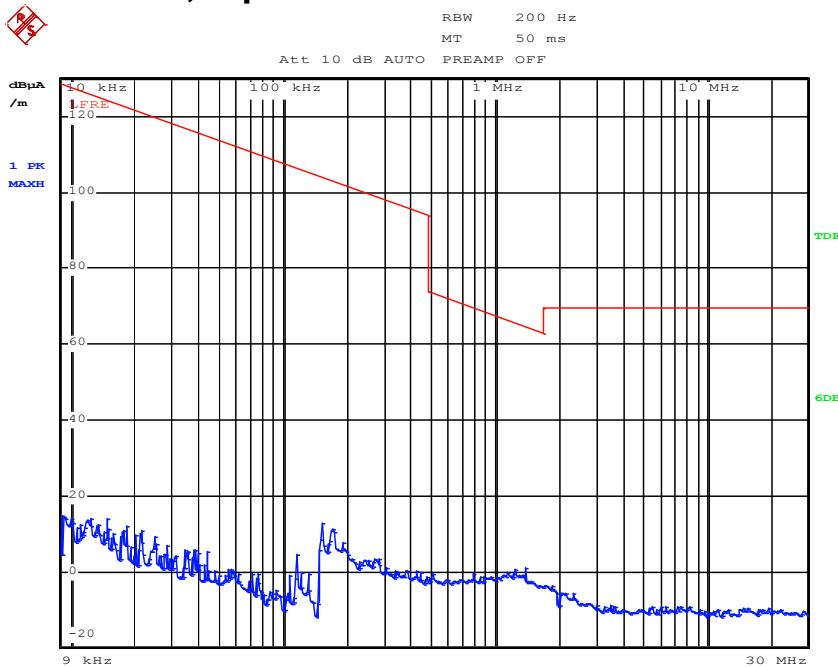
Date: 16.OCT.2013 09:38:20

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**Low channel, Z polarization:**


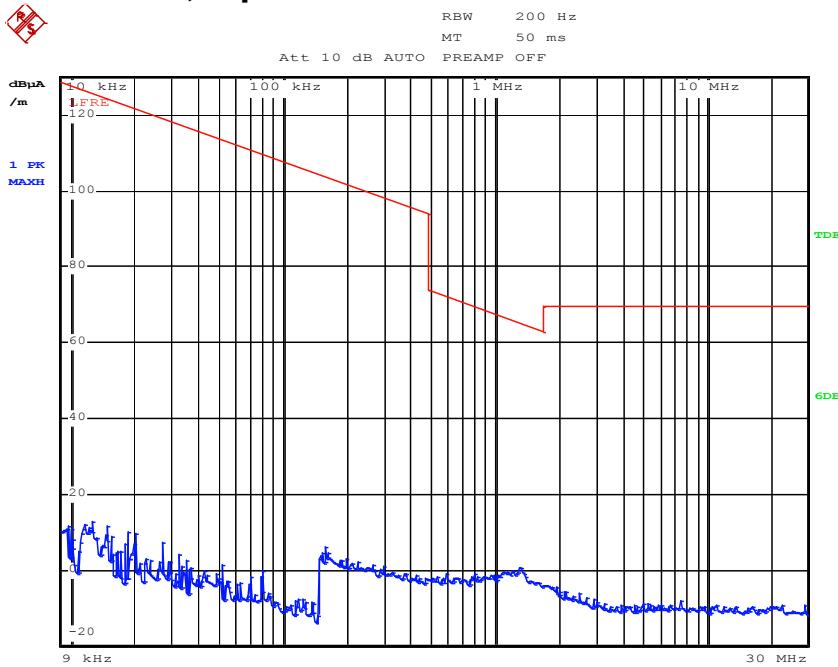
Date: 16.OCT.2013 09:40:27

**Middle channel, X polarization:**


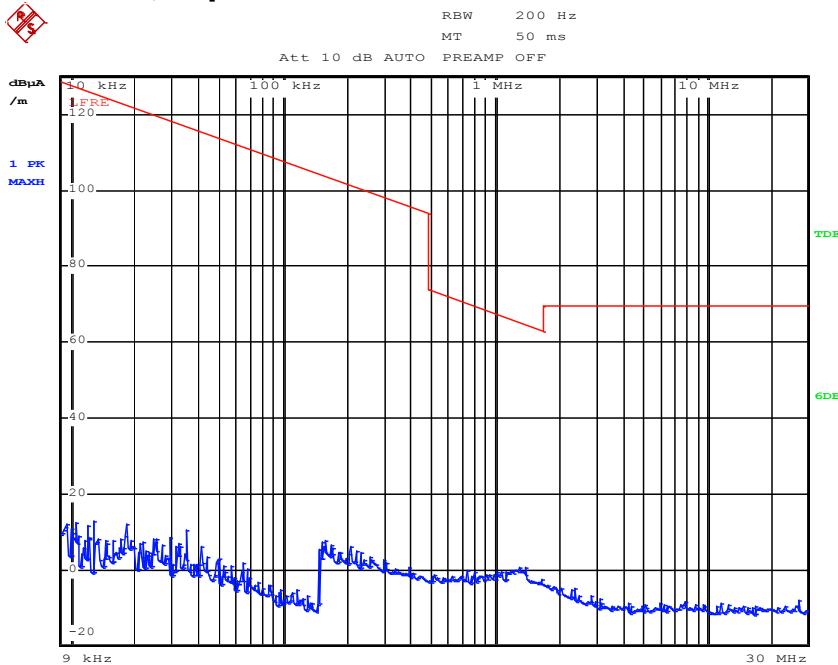
Date: 16.OCT.2013 09:42:26

**Prüfbericht - Nr.: 17035972 001**  
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**Middle channel, Y polarization:**


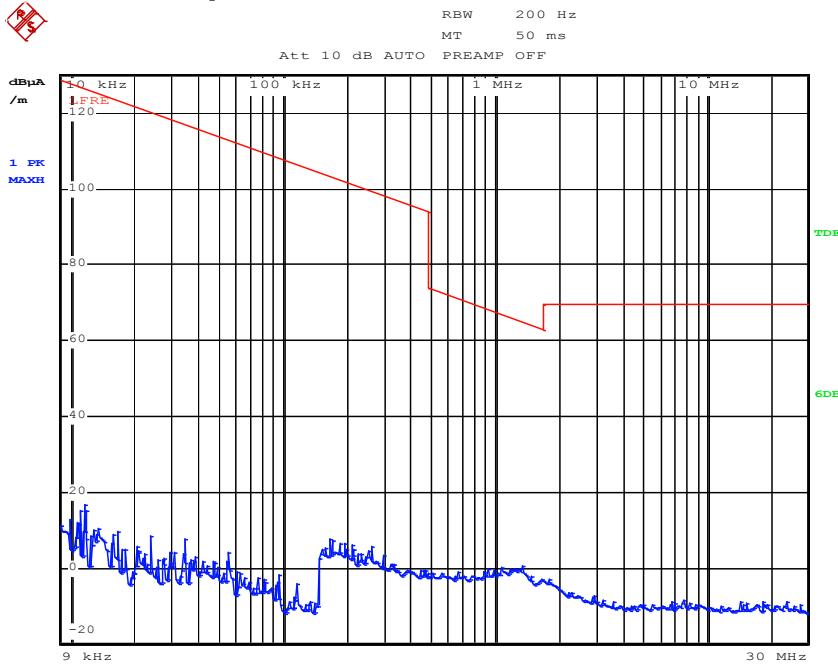
Date: 16.OCT.2013 09:44:25

**Middle channel, Z polarization:**


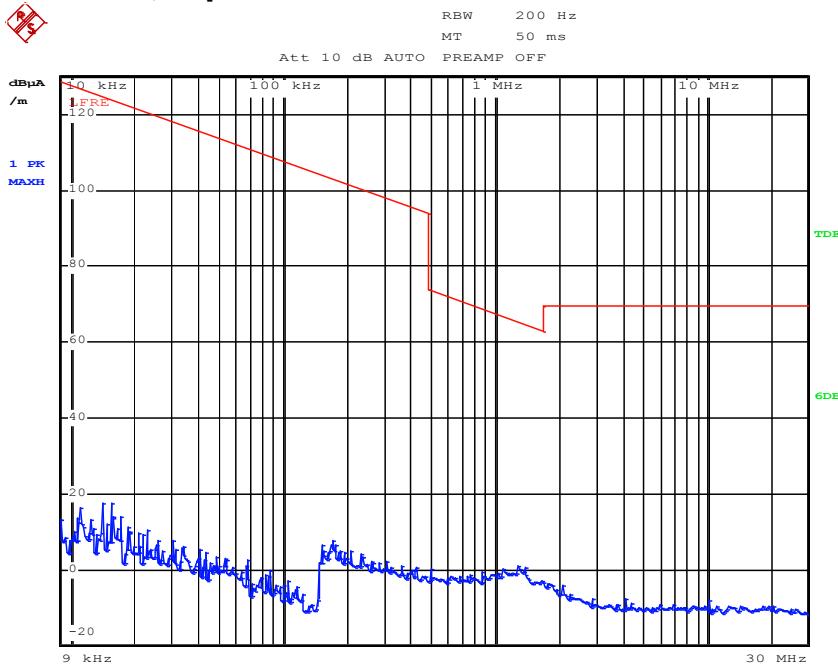
Date: 16.OCT.2013 09:46:22

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**High channel, X polarization:**


Date: 16.OCT.2013 09:52:10

**High channel, Y polarization:**


Date: 16.OCT.2013 09:48:18

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Test Report No.Seite 30 von 94  
Page 30 of 94**High channel, Z polarization:**

Date: 16.OCT.2013 09:50:15

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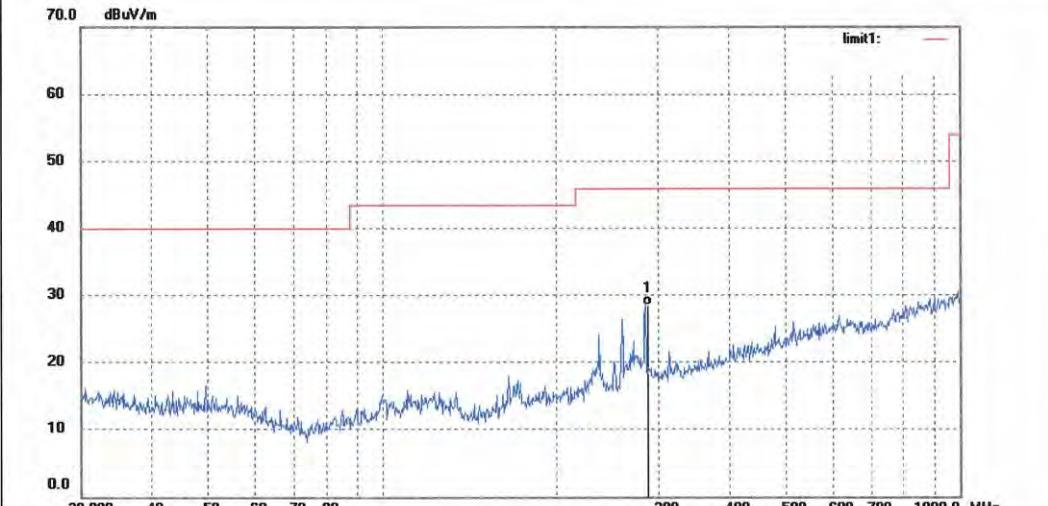
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #172	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12/49/22
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
-------



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.0025	37.99	-9.61	28.38	46.00	-17.62	QP			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

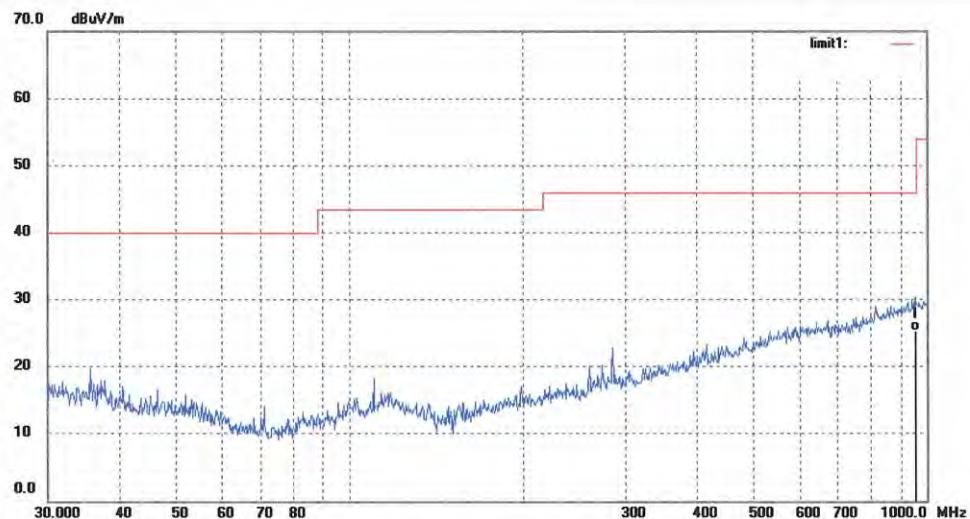
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #173	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12/57/32
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	955.3509	23.04	2.29	25.33	46.00	-20.67	QP			

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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #175

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 13/15/47

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

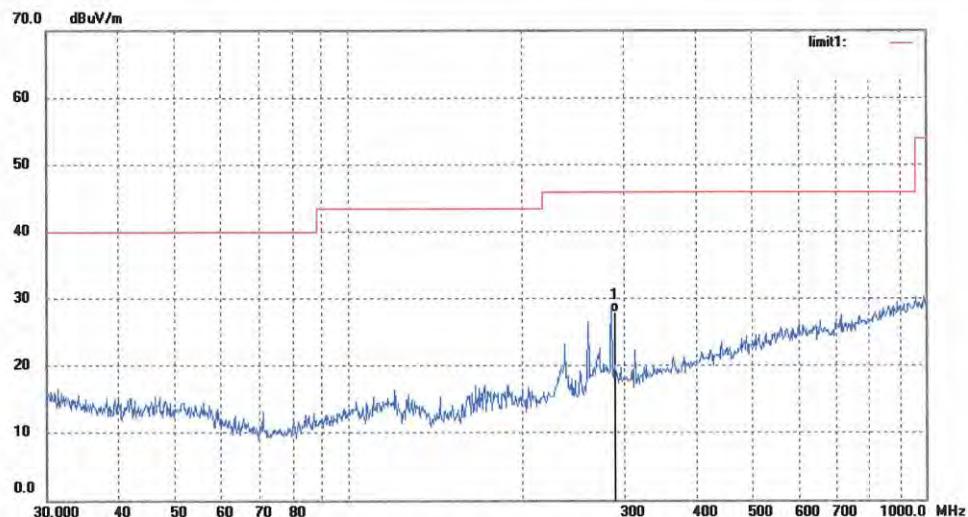
Mode: TX 2441MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.0261	37.53	-9.61	27.92	46.00	-18.08	QP			

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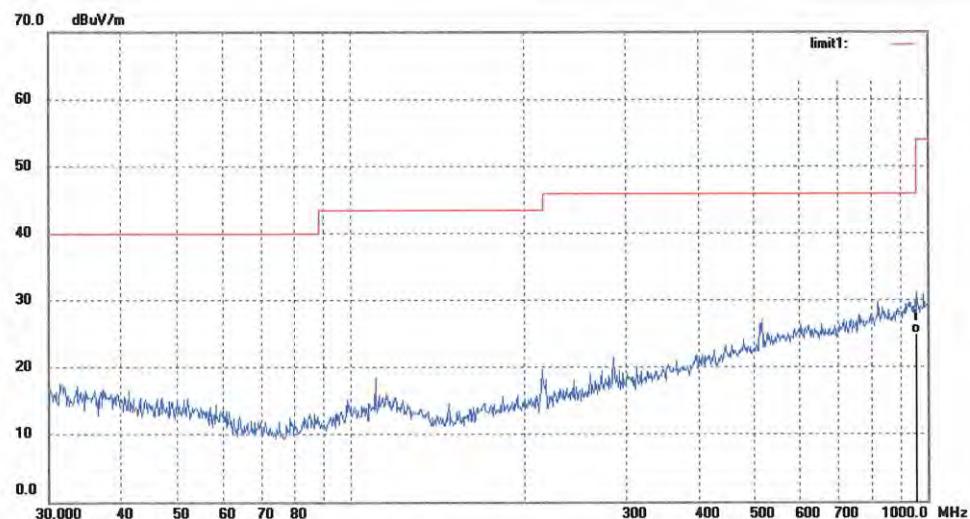
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #174	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 13/06/21
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	958.7135	22.66	2.35	25.01	46.00	-20.99	QP			

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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #176

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 13/24/46

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

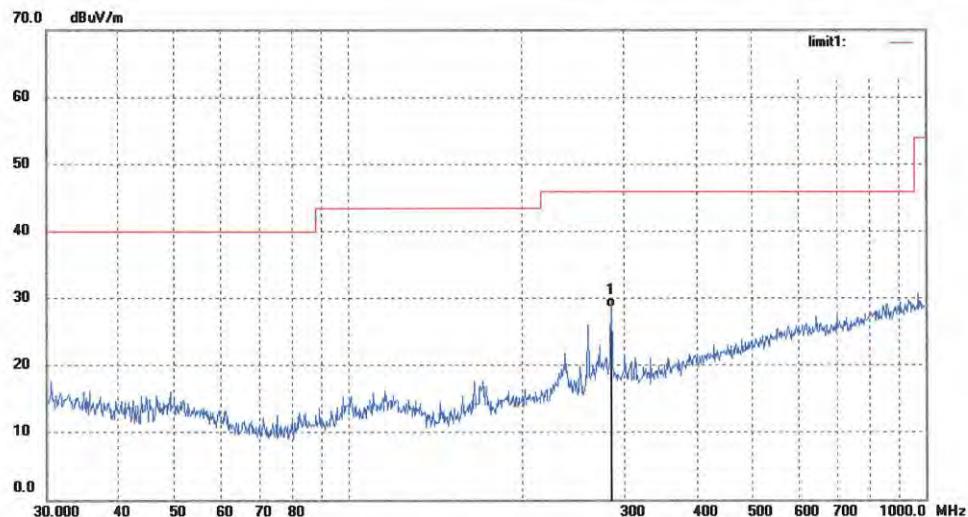
Mode: TX 2480MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.0322	38.31	-9.61	28.70	46.00	-17.30	QP			

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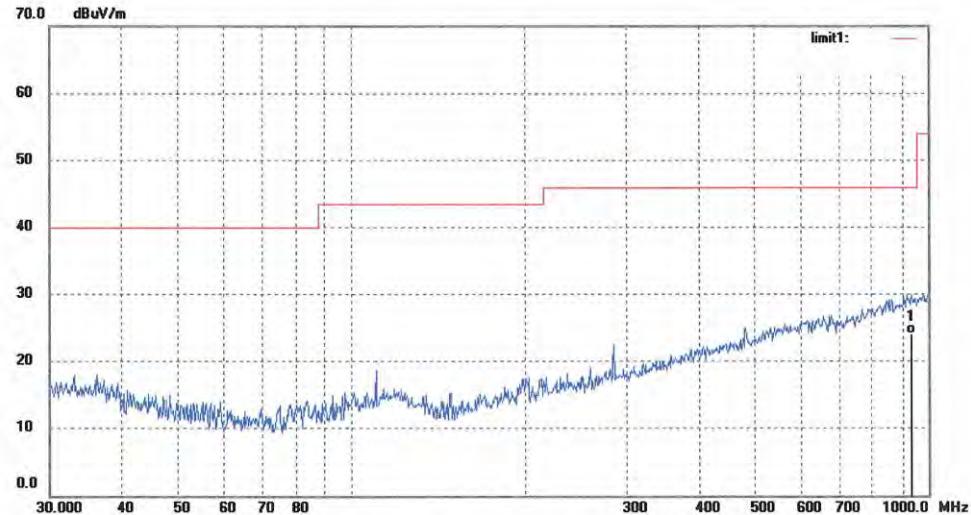
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #177	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 13/34/25
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
-------



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	942.0180	22.18	1.97	24.15	46.00	-21.85	QP			

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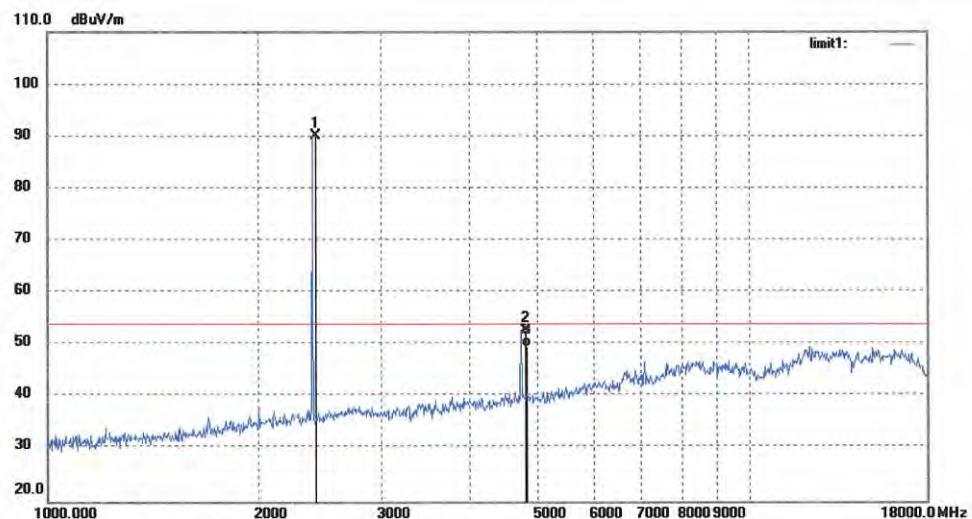
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #149	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 9/25/31
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	97.63	-7.45	90.18	/	/	peak			
2	4804.270	53.06	-0.30	52.76	74.00	-21.24	peak			
3	4804.270	49.90	-0.30	49.60	54.00	-4.40	AVG			

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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

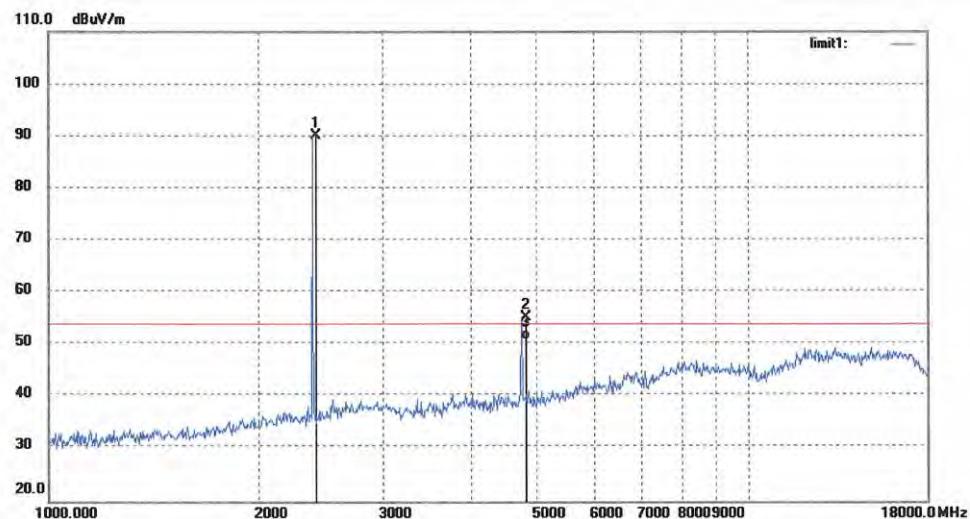
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #150	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 9/36/40
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	97.55	-7.45	90.10	/	/	peak			
2	4804.274	55.41	-0.30	55.11	54.00	1.11	peak			
3	4804.274	51.30	-0.30	51.00	54.00	-3.00	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

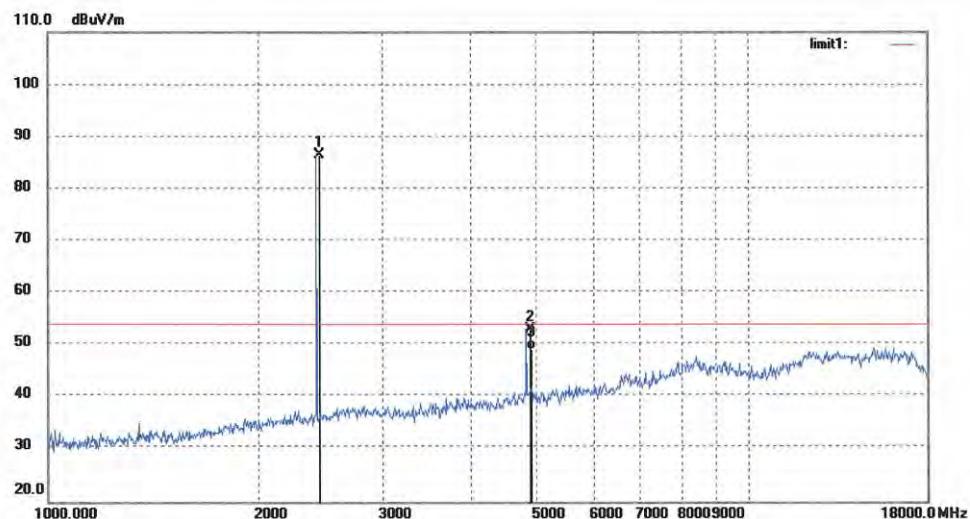
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #155	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10/19/38
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	93.90	-7.35	86.55	/	/	peak			
2	4882.281	52.78	0.14	52.92	74.00	-21.08	peak			
3	4882.281	49.06	0.14	49.20	54.00	-4.80	AVG			

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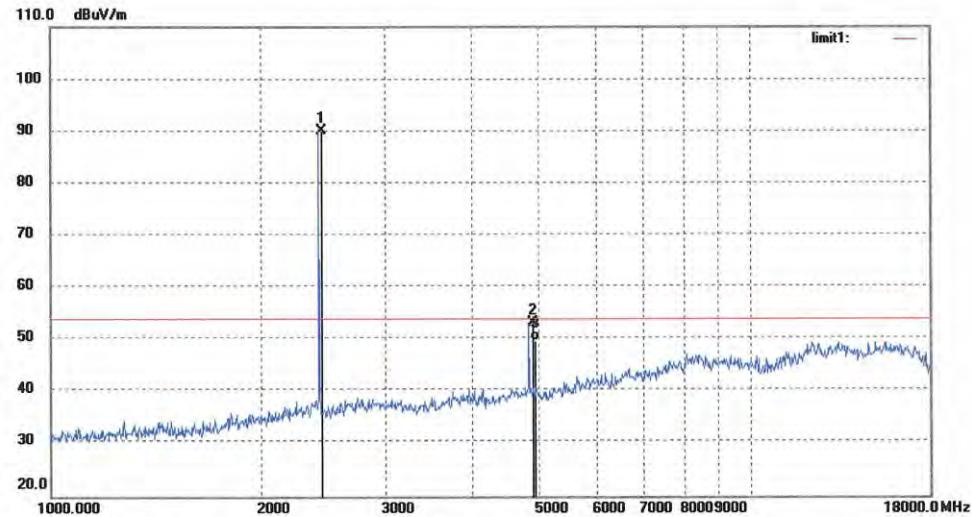
**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: PHY #153	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10/08/08
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	97.54	-7.35	90.19	/	/	peak			
2	4881.979	53.12	0.14	53.26	74.00	-20.74	peak			
3	4881.979	49.66	0.14	49.80	54.00	-4.20	AVG			

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Test Report No.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #156

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp. ( C)/Hum.(%) 23 C / 48 %

Time: 10/30/34

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

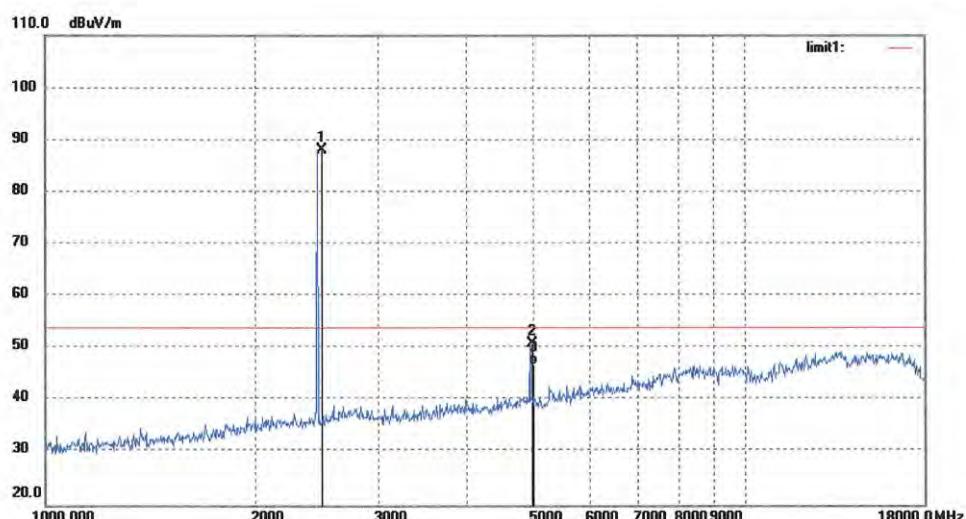
Mode: TX 2480MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	95.52	-7.37	88.15	/	/	peak			
2	4960.270	50.31	0.52	50.83	74.00	-23.17	peak			
3	4960.270	46.48	0.52	47.00	54.00	-7.00	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

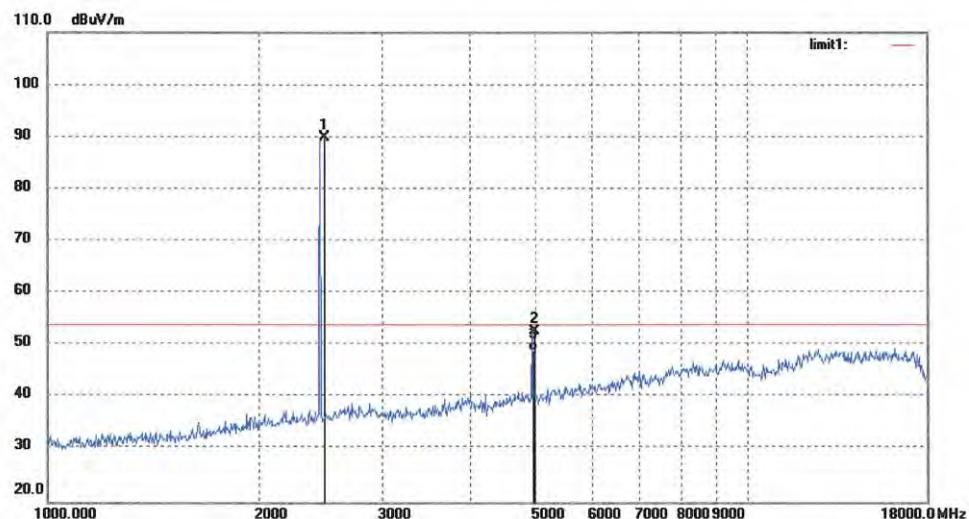
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #157	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 10/41/45
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	97.28	-7.37	89.91	/	/	peak			
2	4960.294	52.32	0.52	52.84	74.00	-21.16	peak			
3	4960.294	48.47	0.52	48.99	54.00	-5.01	AVG			

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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

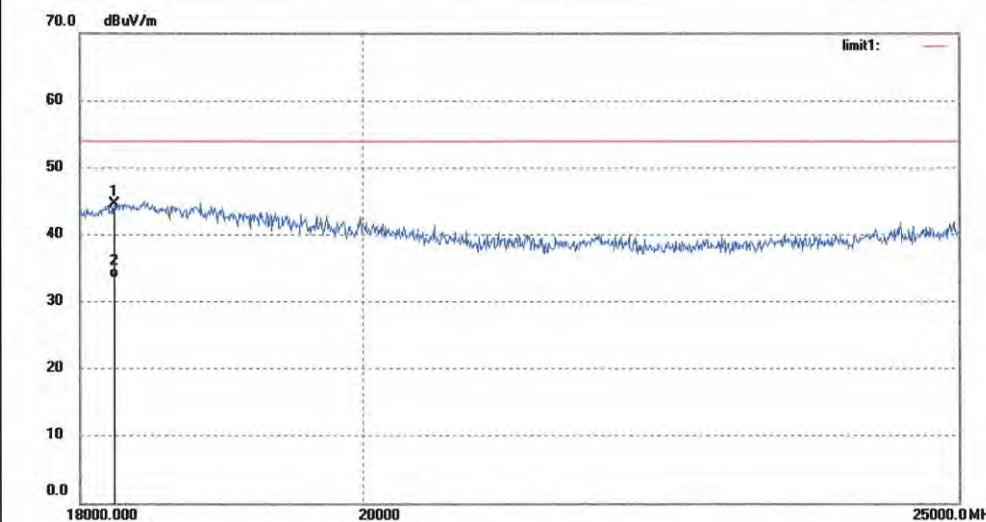
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #180	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 19:21:26
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18232.561	27.96	16.61	44.57	74.00	-29.43	peak			
2	18232.561	16.82	16.61	33.43	54.00	-20.57	AVG			

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**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #181

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2013/10/16

Temp. ( C)/Hum.(%) 23 C / 48 %

Time: 19:29:16

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

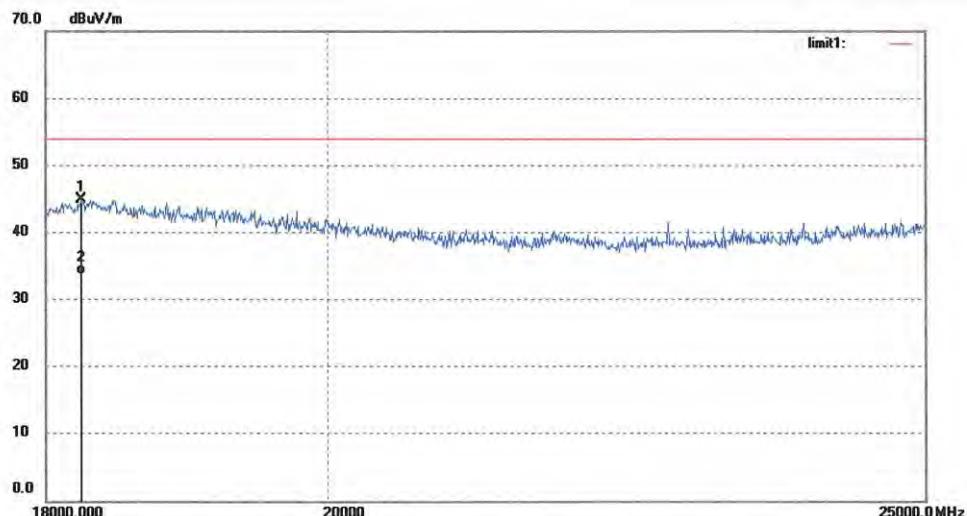
Mode: TX 2402MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18238.564	28.25	16.62	44.87	74.00	-29.13	peak			
2	18238.564	17.08	16.62	33.70	54.00	-20.30	AVG			

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Test Report No.

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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #183

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2013/10/16

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 19:44:20

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

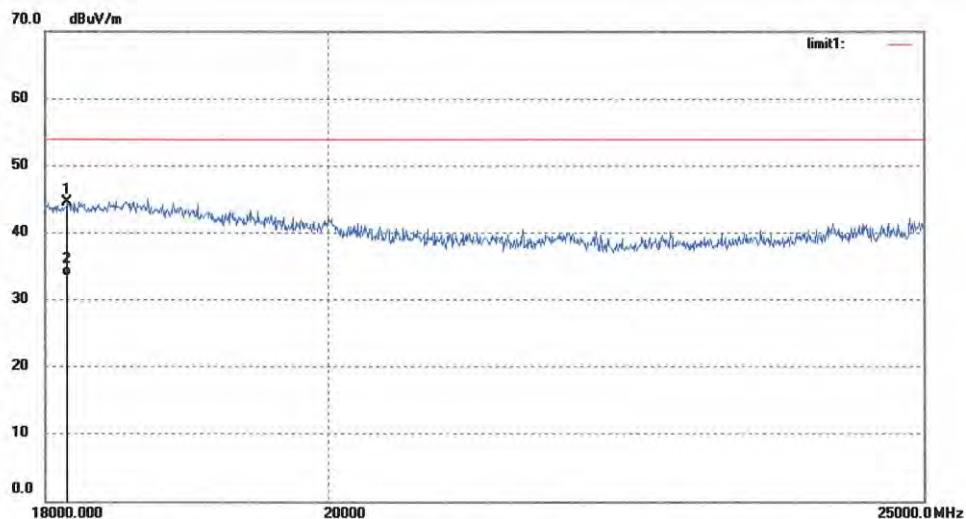
Mode: TX 2441MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18148.734	28.09	16.43	44.52	74.00	-29.48	peak			
2	18148.734	17.11	16.43	33.54	54.00	-20.46	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

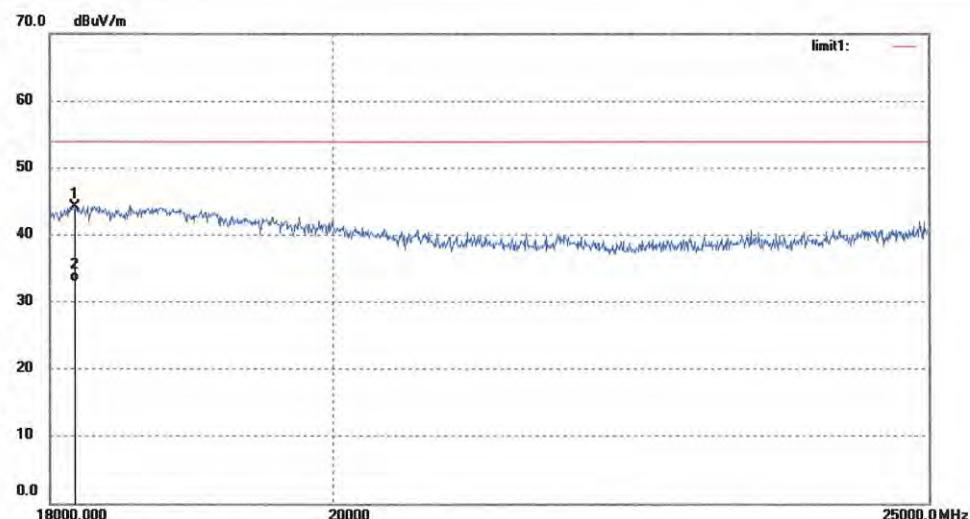
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #182	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 19:37:07
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18172.645	27.73	16.48	44.21	74.00	-29.79	peak			
2	18172.645	16.55	16.48	33.03	54.00	-20.97	AVG			

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Test Report No.

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**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

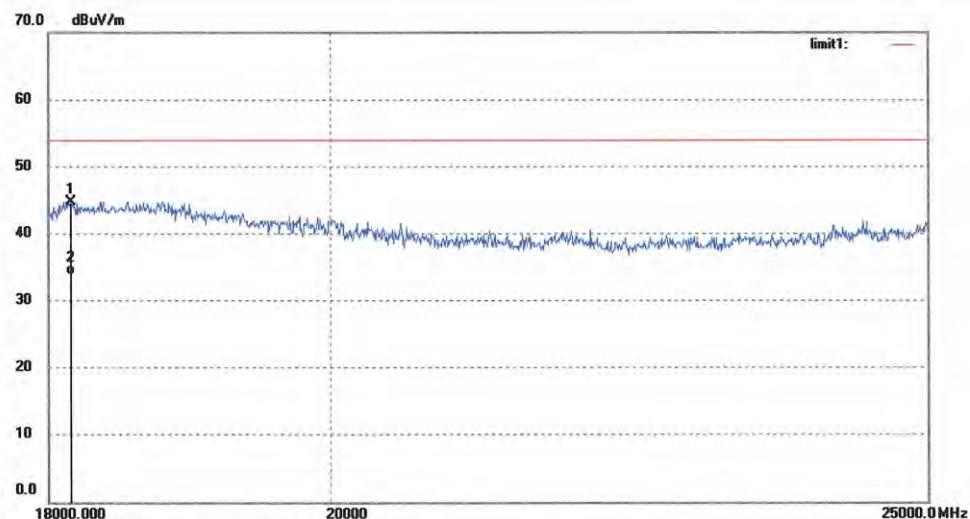
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #184	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 19:52:04
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18154.709	28.26	16.44	44.70	74.00	-29.30	peak			
2	18154.709	17.39	16.44	33.83	54.00	-20.17	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

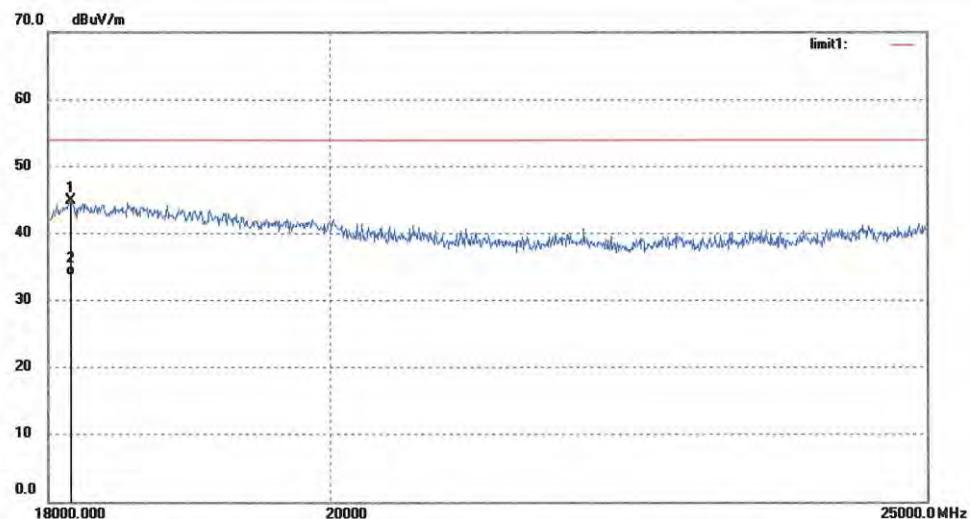
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #185	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 20:00:47
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18154.709	28.46	16.44	44.90	74.00	-29.10	peak			
2	18154.709	17.24	16.44	33.68	54.00	-20.32	AVG			

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**Test Plot of Frequency Band Edge**

**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #152

Polarization: Horizontal

Standard: FCC Part 15 Band Edge (2.4G)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp. ( C)/Hum.(%) 23 C / 48 %

Time: 9/56/06

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

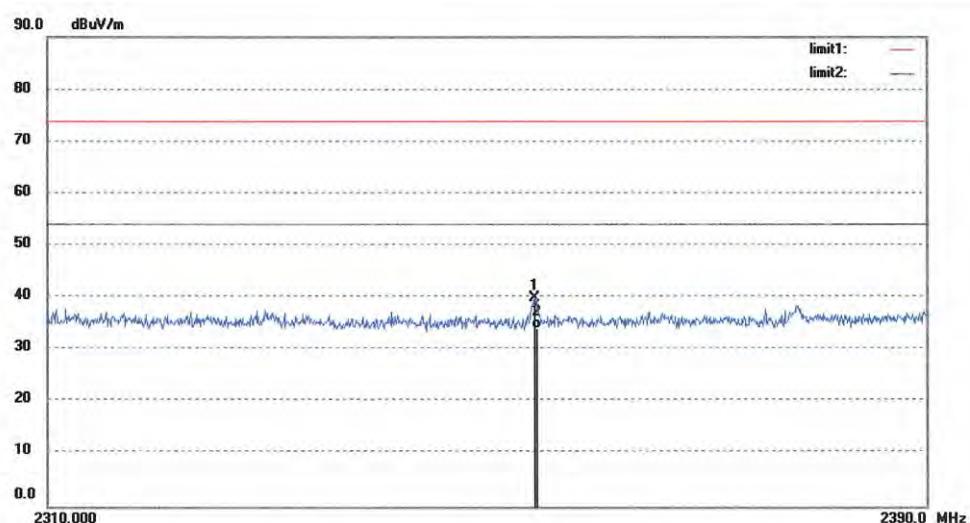
Mode: TX 2402MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2353.959	47.70	-7.76	39.94	74.00	-34.06	peak			
2	2353.959	41.76	-7.76	34.00	54.00	-20.00	AVG			

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**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

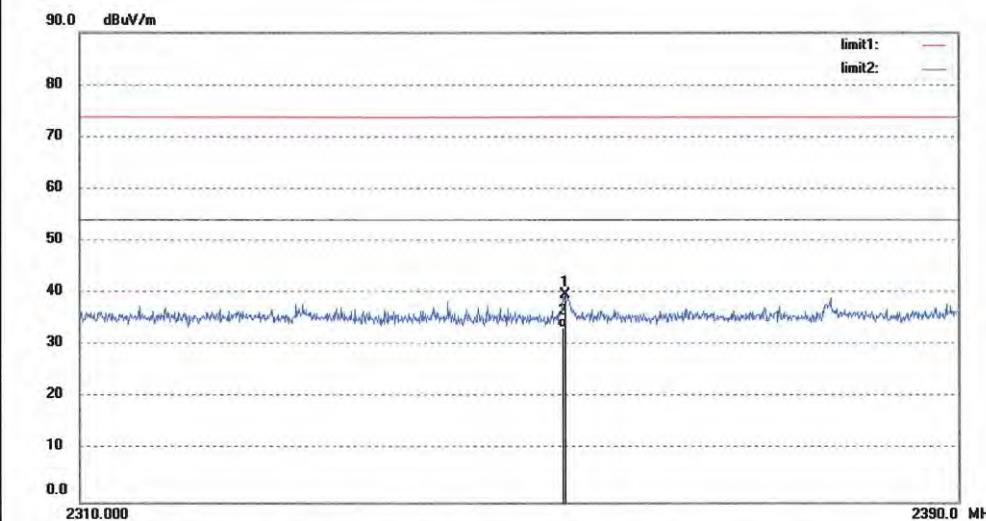
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #151	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 9/47/15
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2353.899	47.42	-7.76	39.66	74.00	-34.34	peak			
2	2353.899	41.26	-7.76	33.50	54.00	-20.50	AVG			

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #159

Polarization: Horizontal

Standard: FCC Part 15 Band Edge (2.4G)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp. ( C)/Hum.(%) 23 C / 48 %

Time: 11/01/26

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

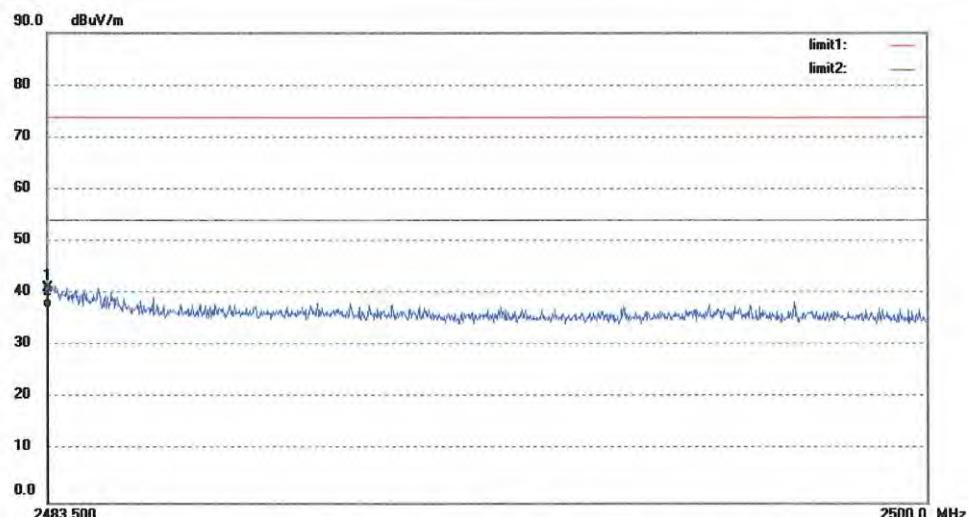
Mode: TX 2480MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	48.36	-7.37	40.99	74.00	-33.01	peak			
2	2483.500	44.67	-7.37	37.30	54.00	-16.70	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #158

Polarization: Vertical

Standard: FCC Part 15 Band Edge (2.4G)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp. ( C)/Hum.(%) 23 C / 48 %

Time: 10/52/10

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

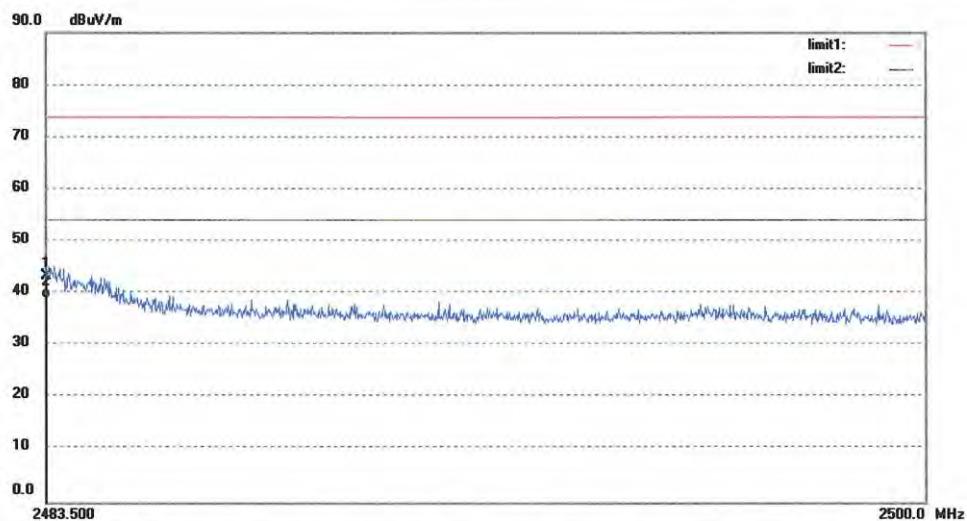
Mode: TX 2480MHz

Distance: 3m

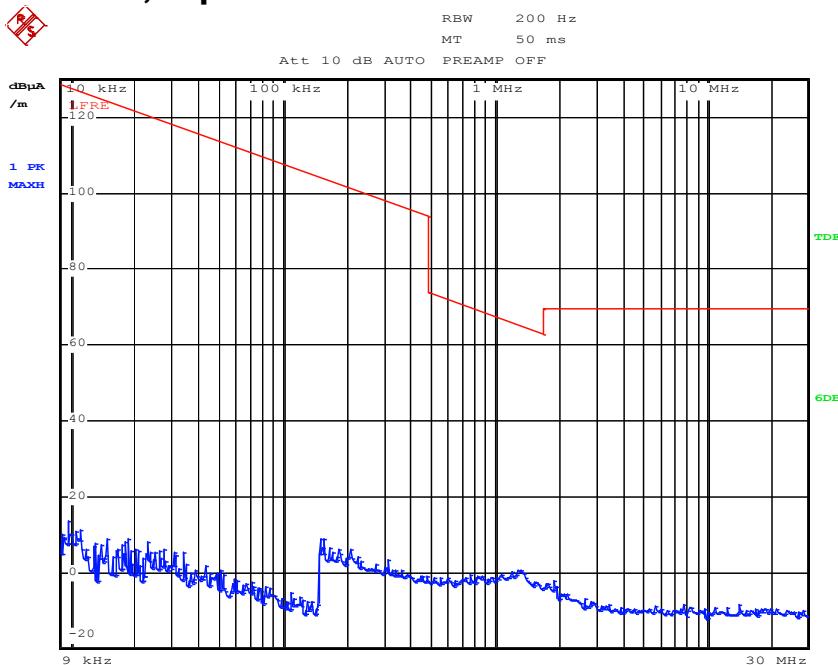
Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

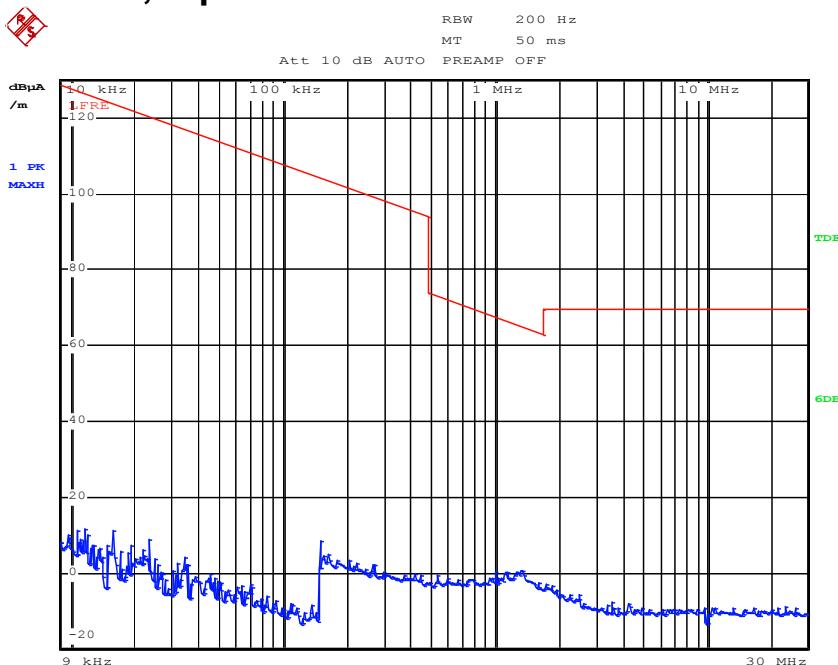
Note:



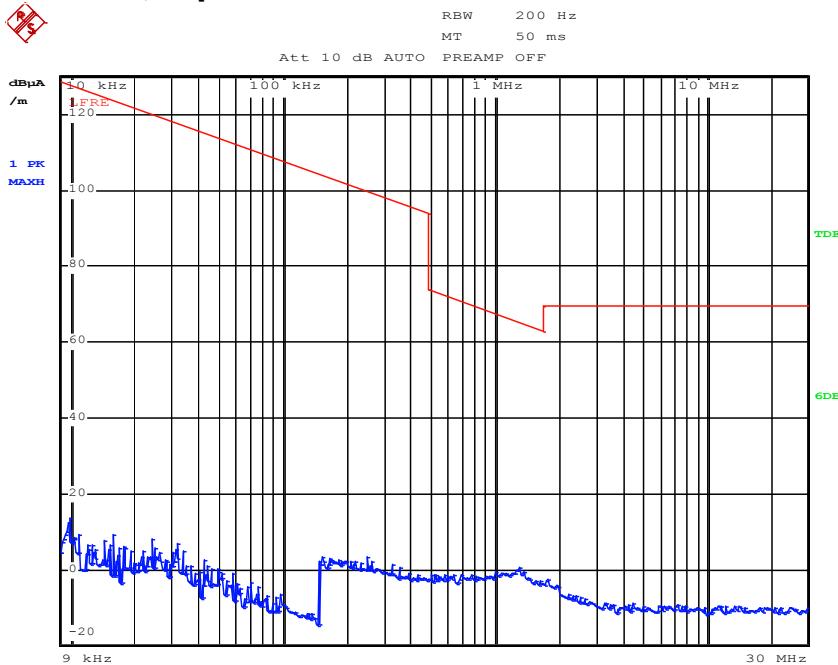
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	50.69	-7.37	43.32	74.00	-30.68	peak			
2	2483.500	46.47	-7.37	39.10	54.00	-14.90	AVG			

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**Test Plot of Spurious Emission of receiving  
Low channel, X polarization:**


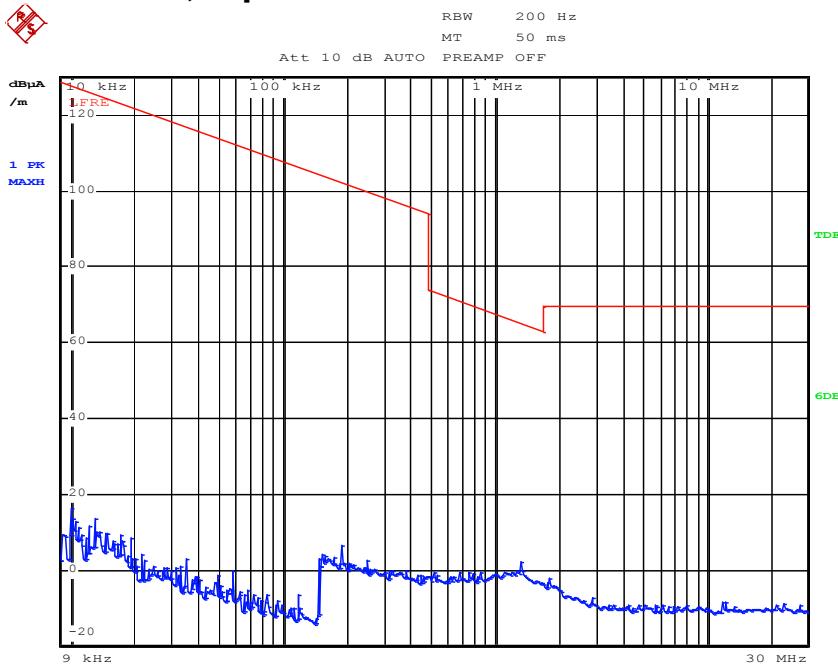
Date: 16.OCT.2013 09:54:10

**Low channel, Y polarization:**


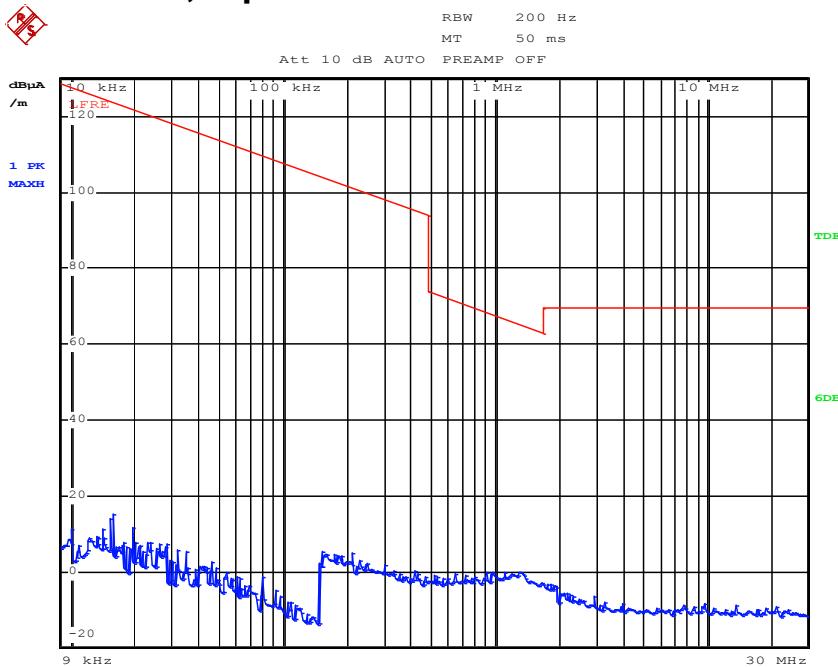
Date: 16.OCT.2013 09:56:05

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**Low channel, Z polarization:**


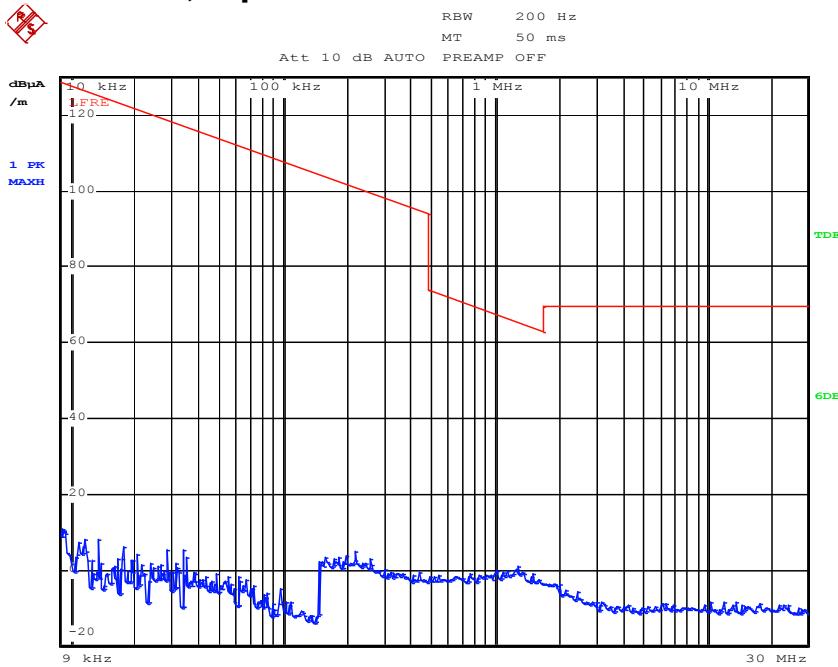
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**Middle channel, X polarization:**


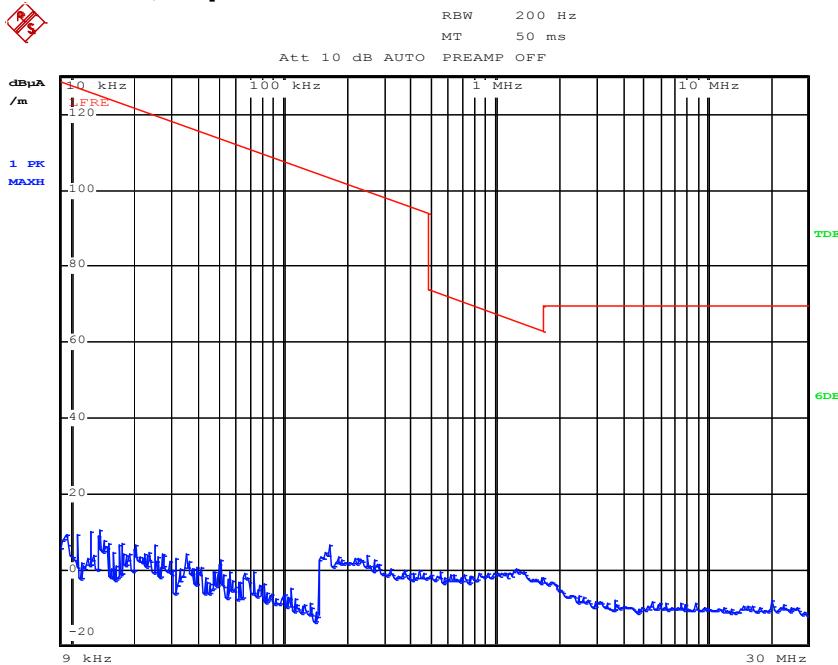
Date: 16.OCT.2013 10:00:01

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**Middle channel, Y polarization:**


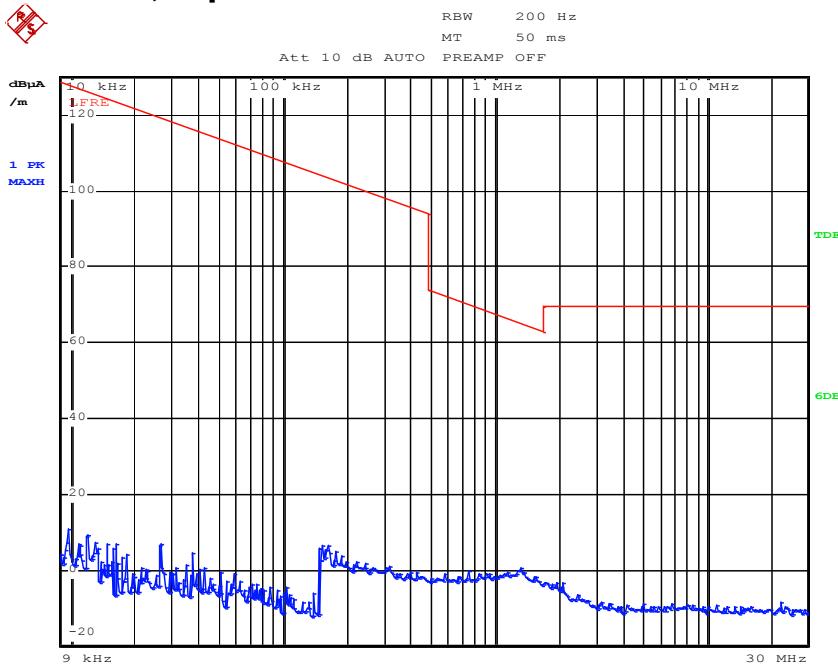
Date: 16.OCT.2013 10:02:02

**Middle channel, Z polarization:**


Date: 16.OCT.2013 10:03:58

**Prüfbericht - Nr.: 17035972 001**  
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**High channel, X polarization:**


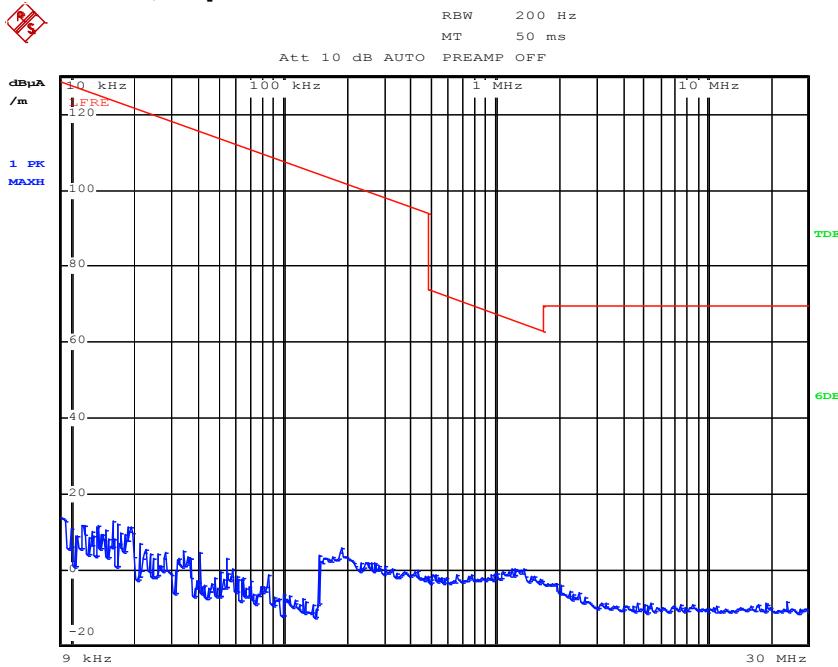
Date: 16.OCT.2013 10:11:05

**High channel, Y polarization:**


Date: 16.OCT.2013 10:07:03

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## High channel, Z polarization:



Date: 16.OCT.2013 10:09:07

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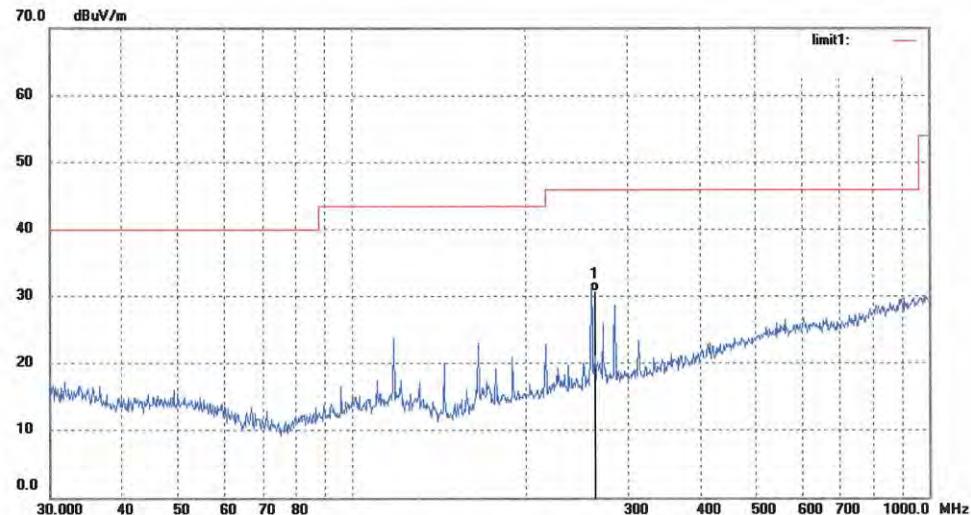
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #167	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12/10/40
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	263.9905	41.15	-10.48	30.67	46.00	-15.33	QP			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

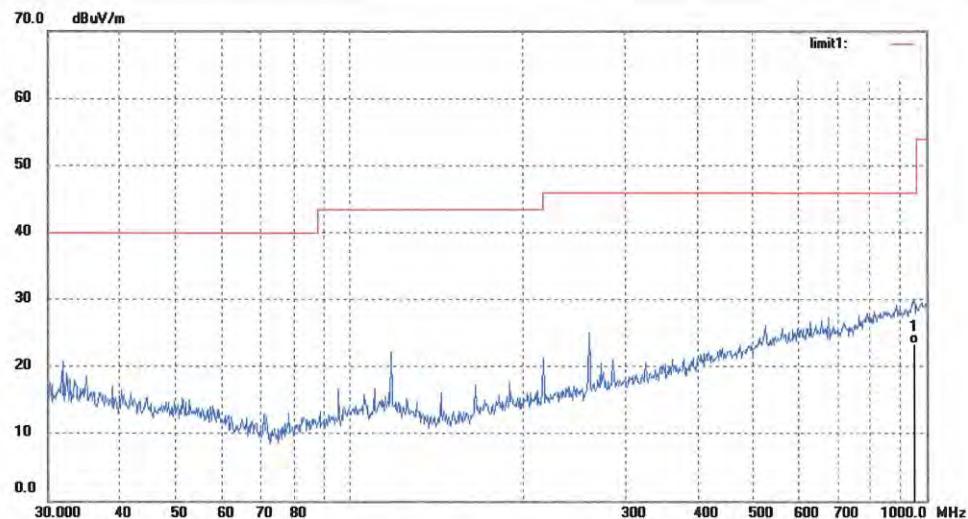
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #166	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12/01/15
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	952.7525	21.06	2.24	23.30	46.00	-22.70	QP			

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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

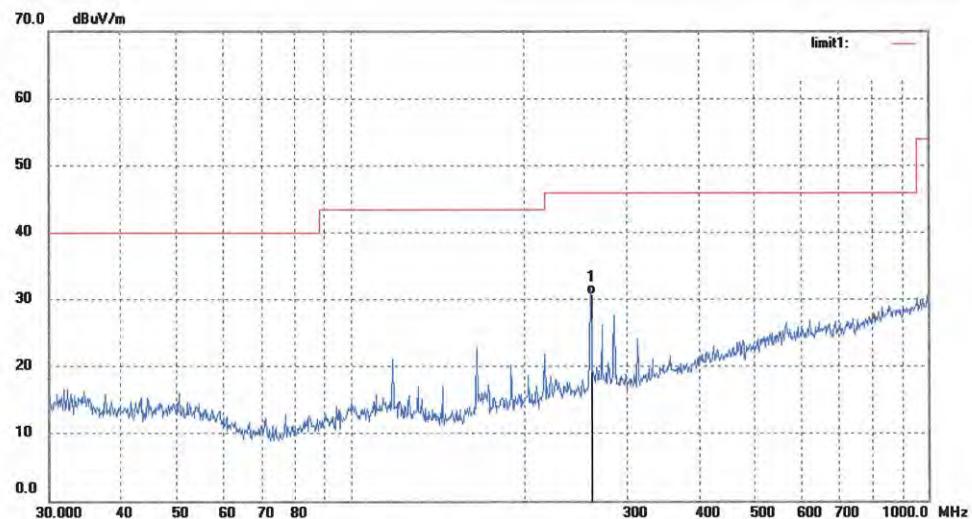
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #168	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 12/17/31
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	263.9984	41.12	-10.48	30.64	46.00	-15.36	QP			

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**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #169

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 12/25/20

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

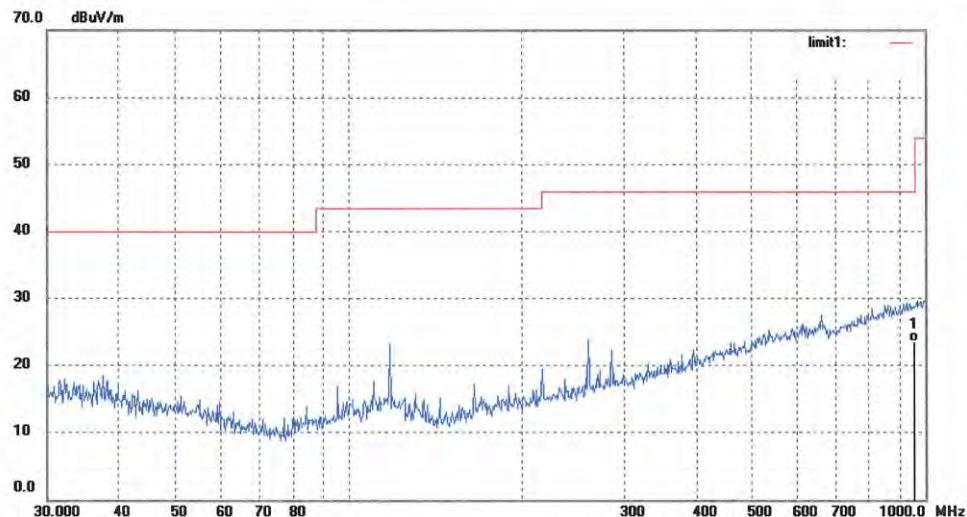
Mode: RX 2441MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	952.0001	21.32	2.21	23.53	46.00	-22.47	QP			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #171

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 12/41/25

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

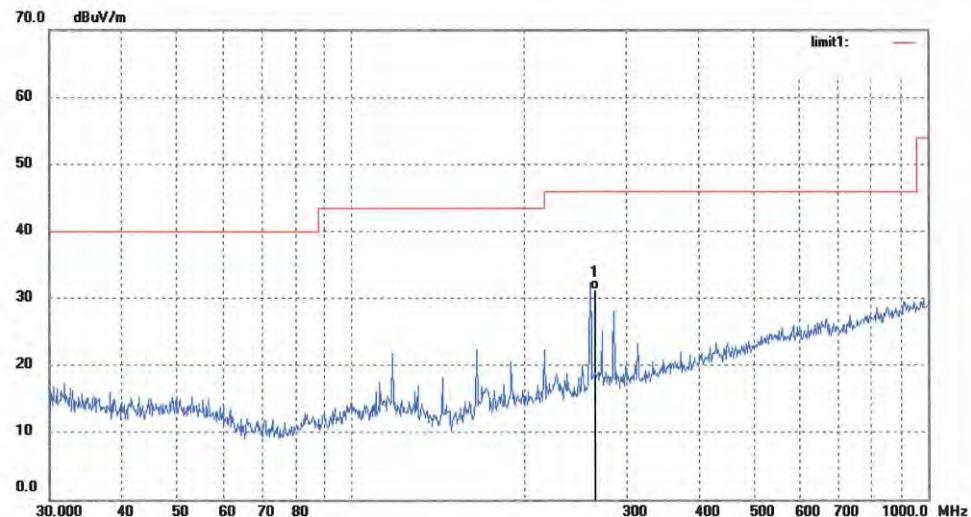
Mode: RX 2480MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	264.0079	41.77	-10.48	31.29	46.00	-14.71	QP			

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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

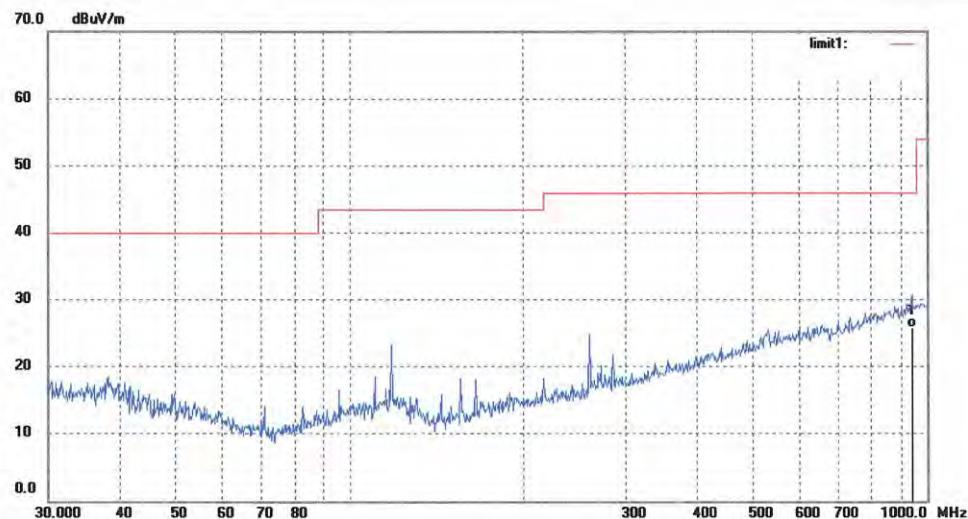
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #170	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12/33/45
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	944.1500	23.72	2.06	25.78	46.00	-20.22	QP			

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Test Report No.

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

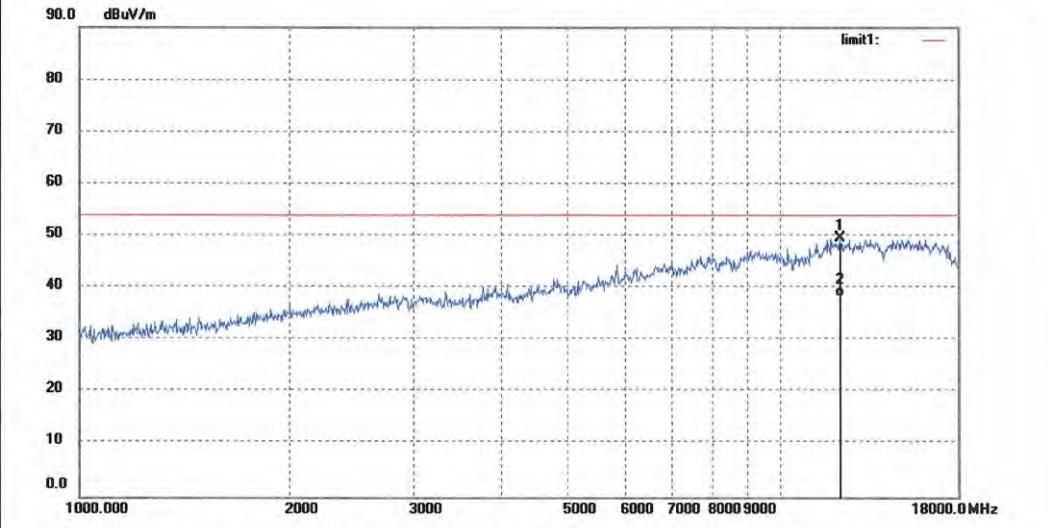
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #160	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 11/10/17
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
-------



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12222.059	11.49	38.12	49.61	74.00	-24.39	peak			
2	12222.059	0.28	38.12	38.40	54.00	-15.60	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

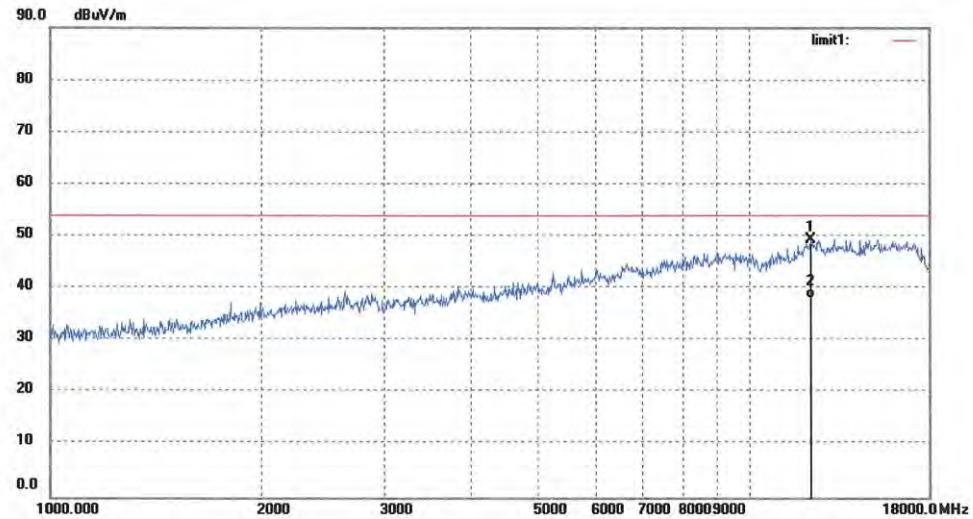
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #161	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/16/
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 11/18/51
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
-------



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12215.915	11.25	38.12	49.37	74.00	-24.63	peak			
2	12215.915	0.08	38.12	38.20	54.00	-15.80	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #163

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp. ( C)/Hum.(%) 23 C / 48 %

Time: 11/36/17

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

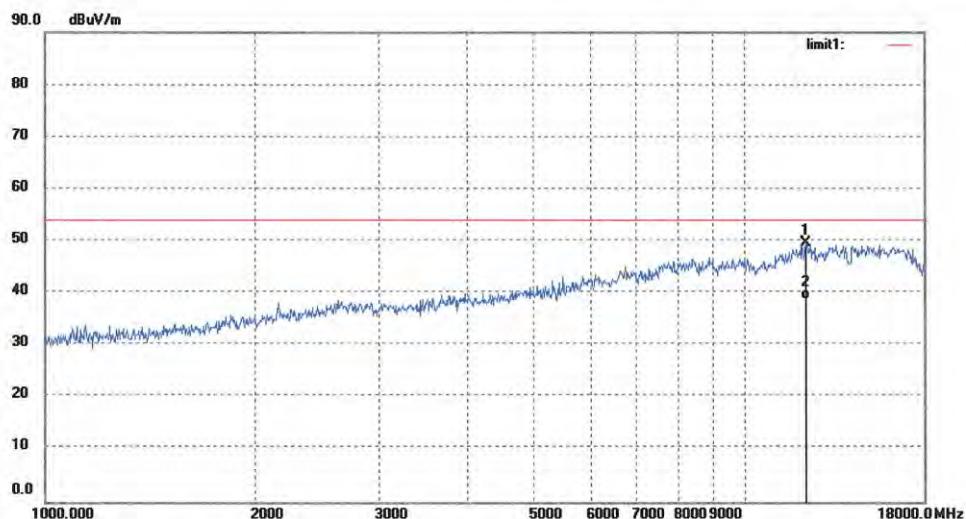
Mode: RX 2441MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12226.997	11.56	38.13	49.69	74.00	-24.31	peak			
2	12226.997	0.57	38.13	38.70	54.00	-15.30	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #162

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 11/26/31

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

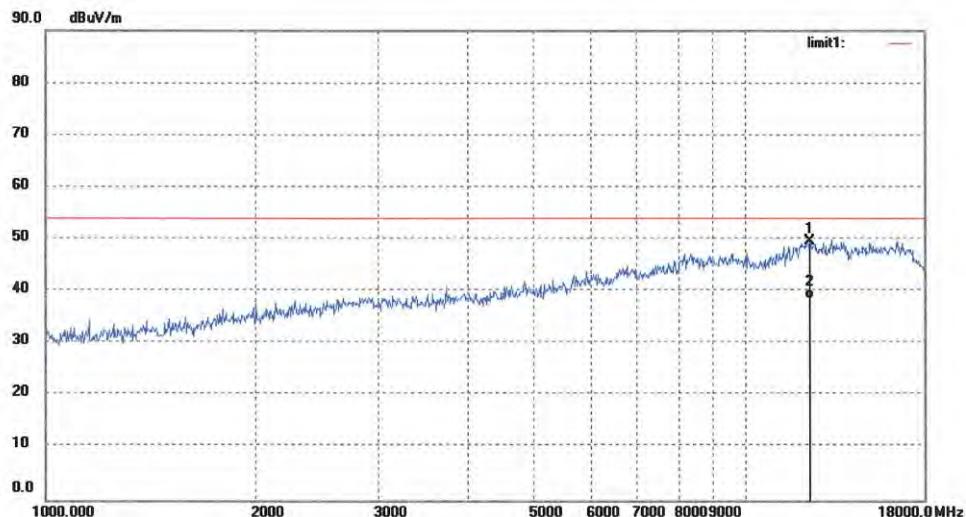
Mode: RX 2441MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12365.274	11.34	38.27	49.61	74.00	-24.39	peak			
2	12365.274	0.33	38.27	38.60	54.00	-15.40	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #164

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 11/45/48

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

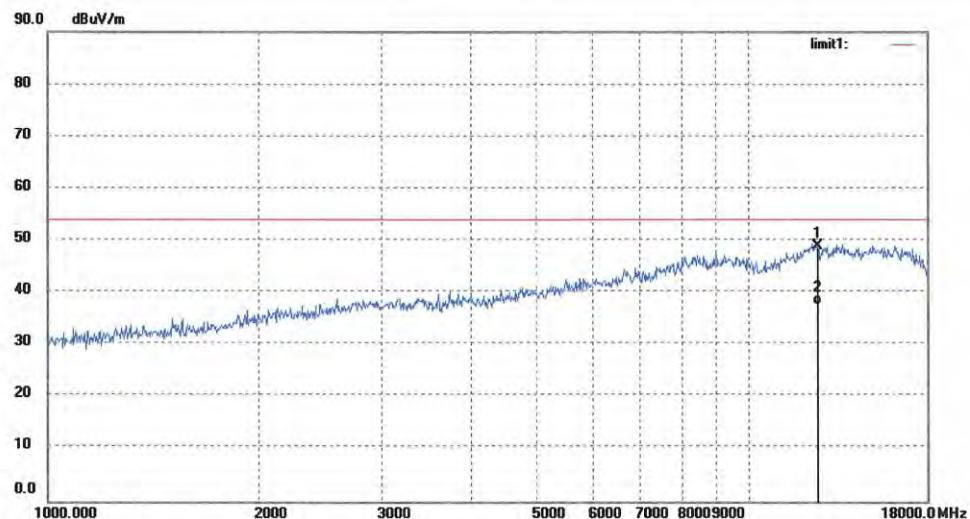
Mode: RX 2480MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12546.028	10.52	38.46	48.98	74.00	-25.02	peak			
2	12546.028	-0.66	38.46	37.80	54.00	-16.20	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #165

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/10/16/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 11/53/08

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

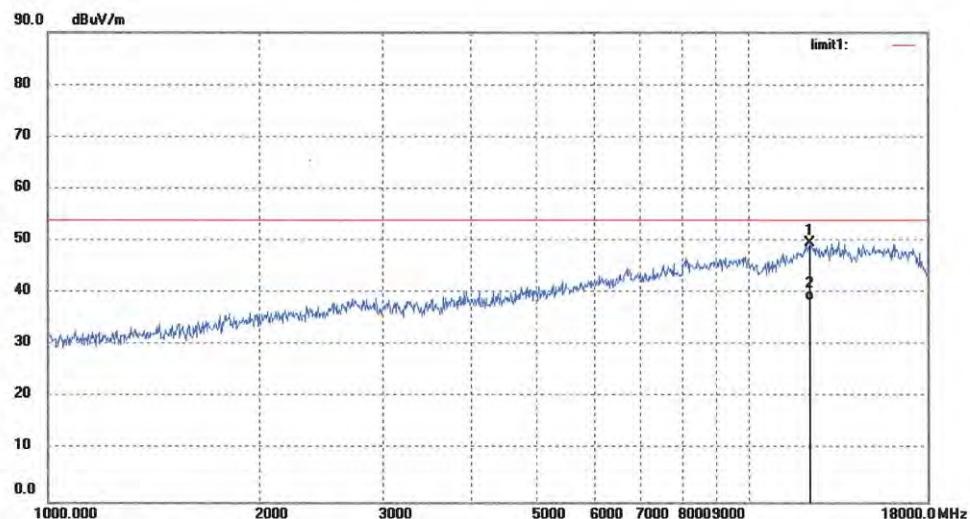
Mode: RX 2480MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12225.067	11.60	38.12	49.72	74.00	-24.28	peak			
2	12225.067	0.38	38.12	38.50	54.00	-15.50	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #187

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2013/10/16

Temp. ( C)/Hum.(%) 23 C / 48 %

Time: 20:16:38

EUT: Bluetooth 2.1 Speaker System

Engineer Signature: PEI

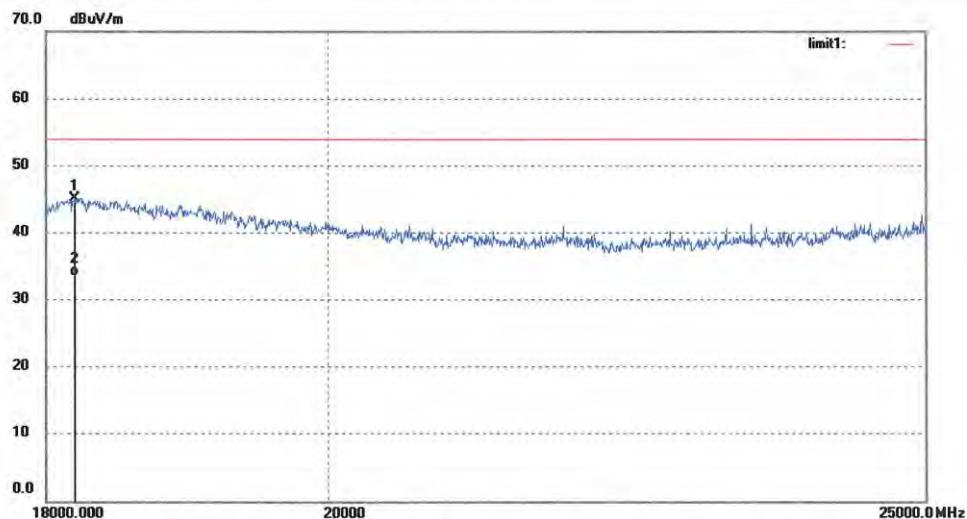
Mode: RX 2402MHz

Distance: 3m

Model: NS-PSB4521

Manufacturer: JAZZ HIPSTER CORPORATION

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18196.588	28.62	16.53	45.15	74.00	-28.85	peak			
2	18196.588	16.96	16.53	33.49	54.00	-20.51	AVG			

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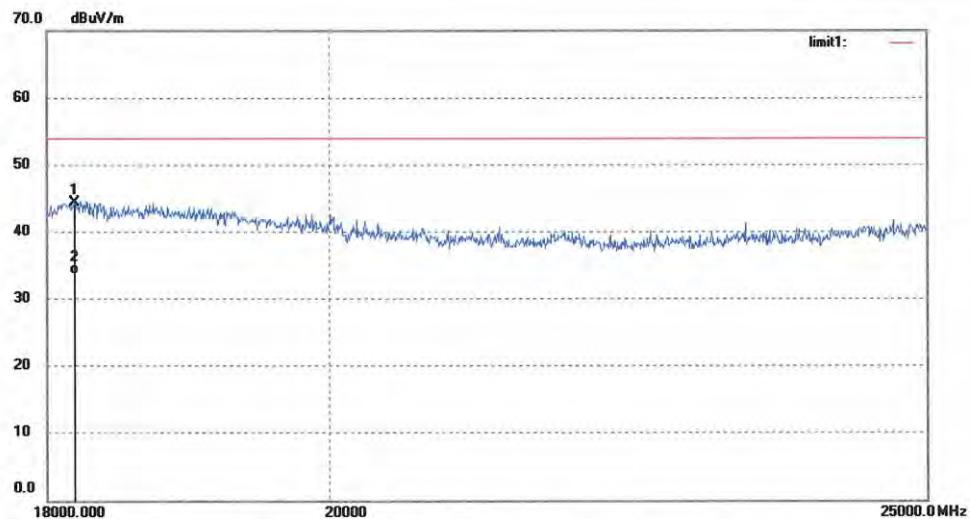
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #186	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 20:07:46
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18184.613	27.87	16.51	44.38	74.00	-29.62	peak			
2	18184.613	17.13	16.51	33.64	54.00	-20.36	AVG			

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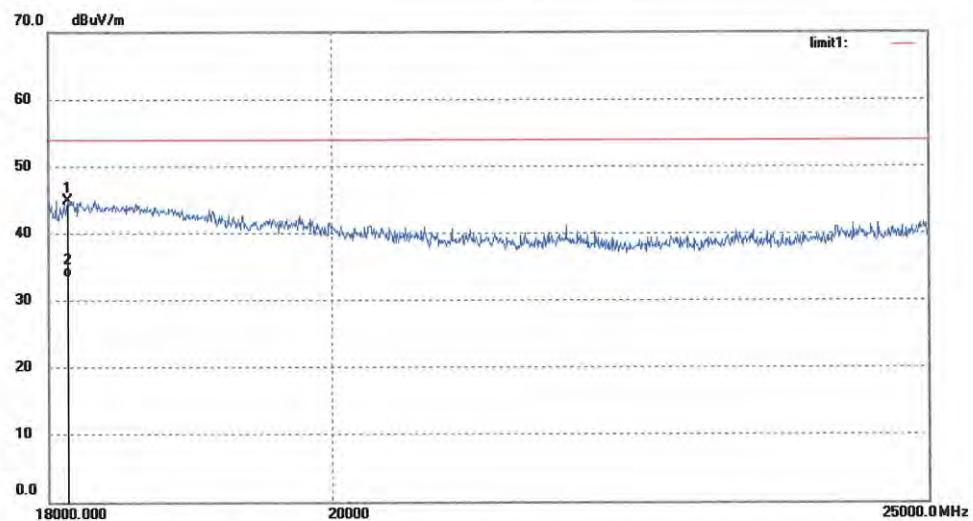
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #188	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 20:24:24
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18130.821	28.56	16.39	44.95	74.00	-29.05	peak			
2	18130.821	17.08	16.39	33.47	54.00	-20.53	AVG			

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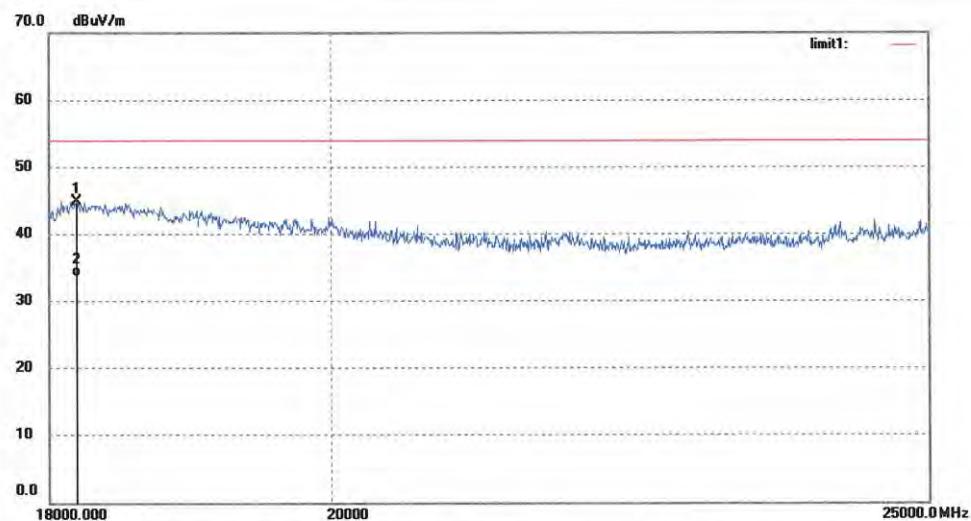
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #189	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 20:34:09
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18184.613	28.39	16.51	44.90	74.00	-29.10	peak			
2	18184.613	17.24	16.51	33.75	54.00	-20.25	AVG			

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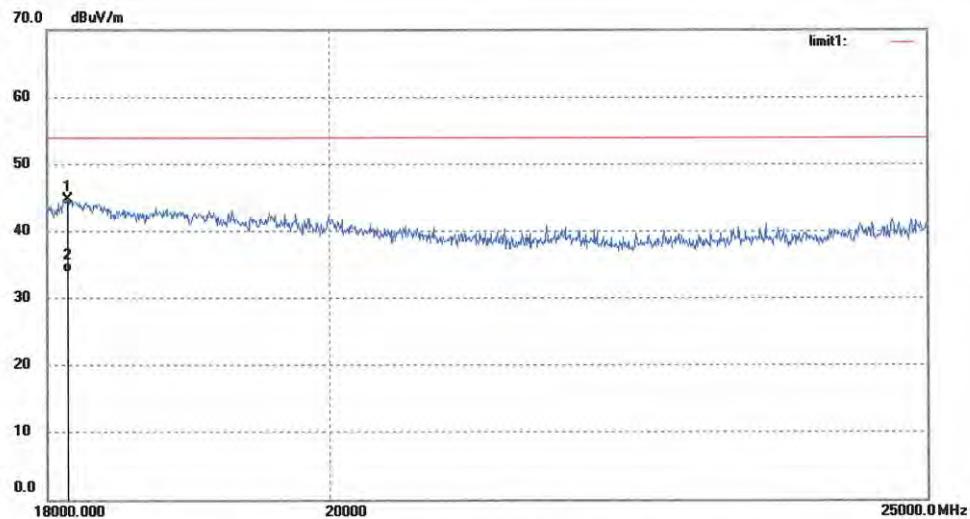
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #191	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 20:51:44
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18136.790	28.37	16.40	44.77	74.00	-29.23	peak			
2	18136.790	17.40	16.40	33.80	54.00	-20.20	AVG			

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**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

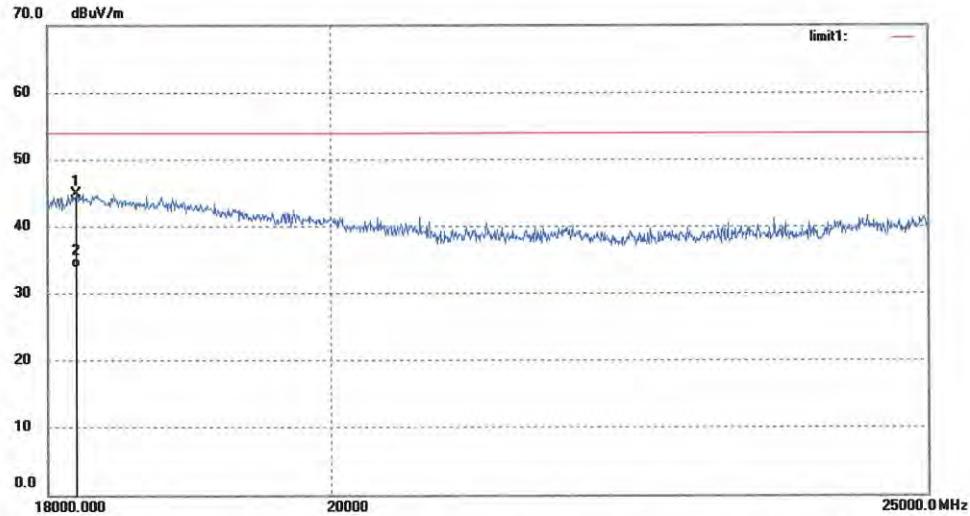
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #190	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/10/16
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 20:43:50
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18196.588	28.42	16.53	44.95	74.00	-29.05	peak			
2	18196.588	17.33	16.53	33.86	54.00	-20.14	AVG			

### 5.1.6 Frequency Separation

**RESULT:**
**Pass**

Date of testing	:	2013-10-15
Test standard	:	FCC part 15.247(a)(1) RSS-210 A8.1(b)
Basic standard	:	ANSI C63.4: 2009
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.1.a
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

**Table 6: Test result of Frequency Separation**

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2479	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2480			

**Prüfbericht - Nr.: 17035972 001**  
*Test Report No.*Seite 77 von 94  
Page 77 of 94**5.1.7 Number of hopping frequency****RESULT:****Pass**

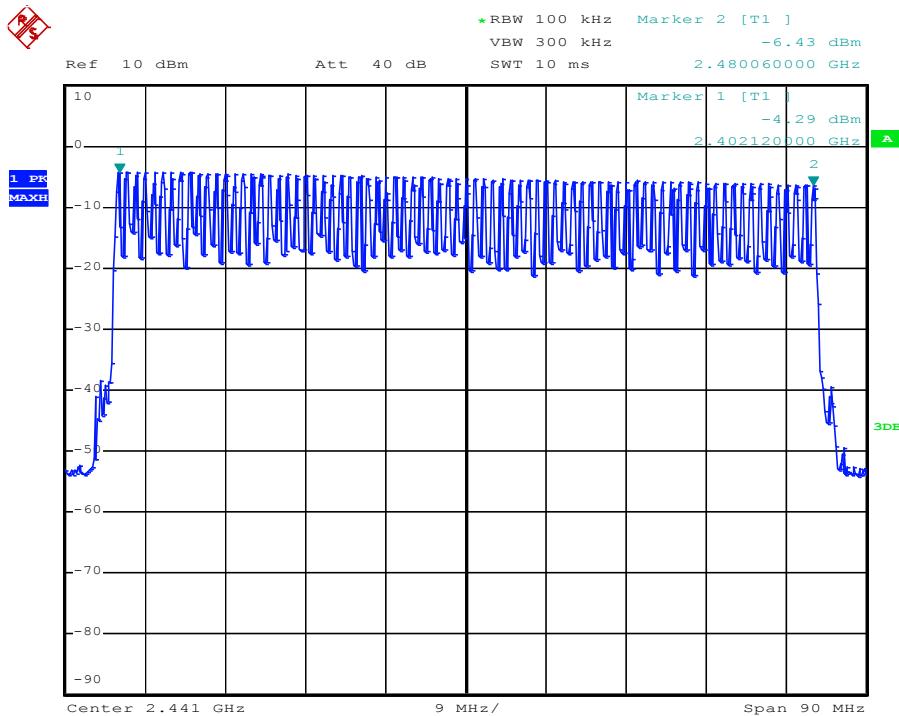
Date of testing	:	2013-10-15
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-210 A8.1(d)
Basic standard	:	ANSI C63.4: 2009
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

**Test setup**

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

**Table 7: Test result of Number of hopping frequency**

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥15	Pass

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Date: 15.OCT.2013 14:20:51

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Test Report No.

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### 5.1.8 Time of Occupancy

#### RESULT:

Pass

Date of testing	:	2013-10-15
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-210 A8.1(d)
Basic standard	:	ANSI C63.4: 2009
Limits	:	0.4s
Kind of test site	:	Shield room

#### Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

**Table 8: Test result of Time of Occupancy**

Channel	Pulse width (ms)		Measured time of Occupancy (s)	Limit (s)	Result
2402MHz	DH1	0.46	0.14674	0.4	Pass
	DH3	1.74	0.28710	0.4	Pass
	DH5	3.03	0.33330	0.4	Pass
2441MHz	DH1	0.46	0.14720	0.4	Pass
	DH3	1.74	0.28536	0.4	Pass
	DH5	3.03	0.33330	0.4	Pass
2480MHz	DH1	0.46	0.14766	0.4	Pass
	DH3	1.74	0.28536	0.4	Pass
	DH5	3.00	0.32700	0.4	Pass

Note:

Time of Occupancy = Pulse width x (Hopping rate / Number of channels) x Period

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

**Prüfbericht - Nr.: 17035972 001**  
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Date of testing	:	2013-10-18
Test standard	:	FCC Part 15.107 ICES-003 Issue 5 February 2012
Basic standard	:	ANSI C63.4: 2009
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a) ICES-003 Issue 5 February 2012
Kind of test site	:	Shield room

**Test setup**

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A, B
Earthing	:	Not Connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

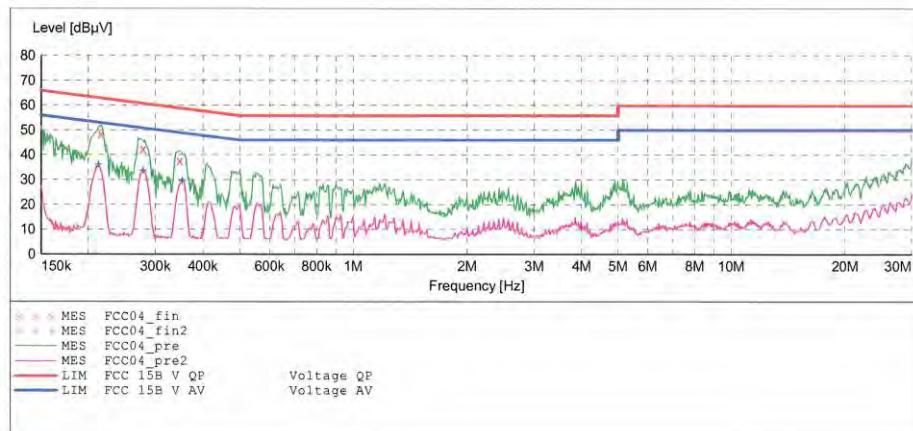
For details refer to following test plot.

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**Test Plot of Conducted emissions**
**ACCURATE TECHNOLOGY CO., LTD**
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Bluetooth 2.1 Speaker System M/N: NS-PSB4521  
 Manufacturer: JAZZ HIPSTER CORPORATION  
 Operating Condition: BT Playing  
 Test Site: 1#Shielding Room  
 Operator: PEI  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 10/18/2013 / 11:10:56AM

**SCAN TABLE: "V 150K-30MHz fin"**

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008 Average


**MEASUREMENT RESULT: "FCC04\_fin"**

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBμV	dB	dBμV	dB			
0.215704	48.60	11.8	63	14.4	QP	L1	GND
0.278495	42.50	12.1	61	18.4	QP	L1	GND
0.346873	37.90	12.3	59	21.1	QP	L1	GND

**MEASUREMENT RESULT: "FCC04\_fin2"**

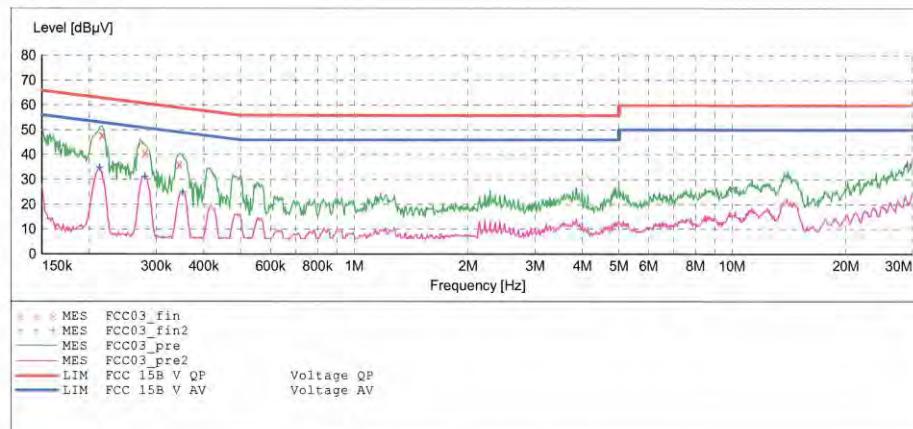
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBμV	dB	dBμV	dB			
0.212287	36.00	11.8	53	17.1	AV	L1	GND
0.278495	33.70	12.1	51	17.2	AV	L1	GND
0.352457	29.50	12.3	49	19.4	AV	L1	GND

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**ACCURATE TECHNOLOGY CO., LTD**
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Bluetooth 2.1 Speaker System M/N: NS-PSB4521  
 Manufacturer: JAZZ HIPSTER CORPORATION  
 Operating Condition: BT Playing  
 Test Site: 1#Shielding Room  
 Operator: PEI  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 10/18/2013 / 11:00:57AM

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average


**MEASUREMENT RESULT: "FCC03\_fin"**

10/18/2013 11:08AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.215704	48.10	11.8	63	14.9	QP	N	GND
	0.279609	40.80	12.1	61	20.0	QP	N	GND
	0.344115	36.30	12.2	59	22.8	QP	N	GND

**MEASUREMENT RESULT: "FCC03\_fin2"**

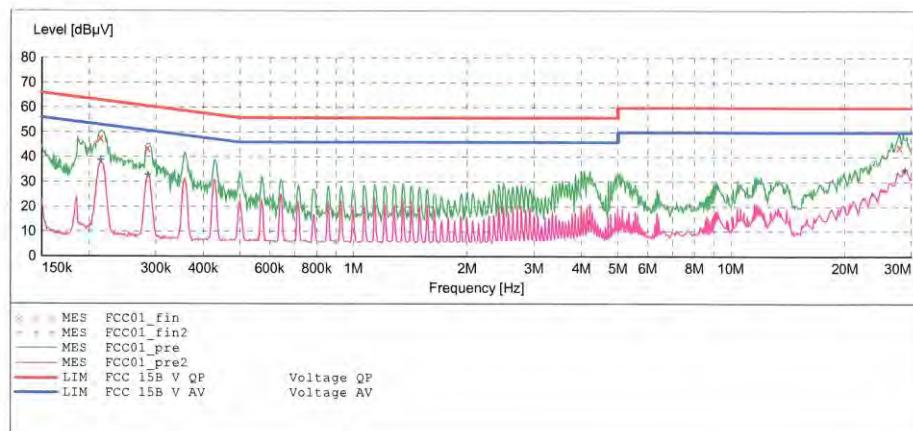
10/18/2013 11:08AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.212287	34.70	11.8	53	18.4	AV	N	GND
	0.279609	31.10	12.1	51	19.7	AV	N	GND
	0.351053	24.70	12.3	49	24.2	AV	N	GND

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**ACCURATE TECHNOLOGY CO., LTD**
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Bluetooth 2.1 Speaker System M/N: NS-PSB4521  
 Manufacturer: JAZZ HIPSTER CORPORATION  
 Operating Condition: Aux in  
 Test Site: 1#Shielding Room  
 Operator: PEI  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 10/18/2013 / 10:44:26AM

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average


**MEASUREMENT RESULT: "FCC01\_fin"**

10/18/2013 10:51AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.213989	47.80	11.8	63	15.2	QP	L1	GND
	0.285246	43.70	12.1	61	17.0	QP	L1	GND
	27.894676	44.30	12.0	60	15.7	QP	L1	GND

**MEASUREMENT RESULT: "FCC01\_fin2"**

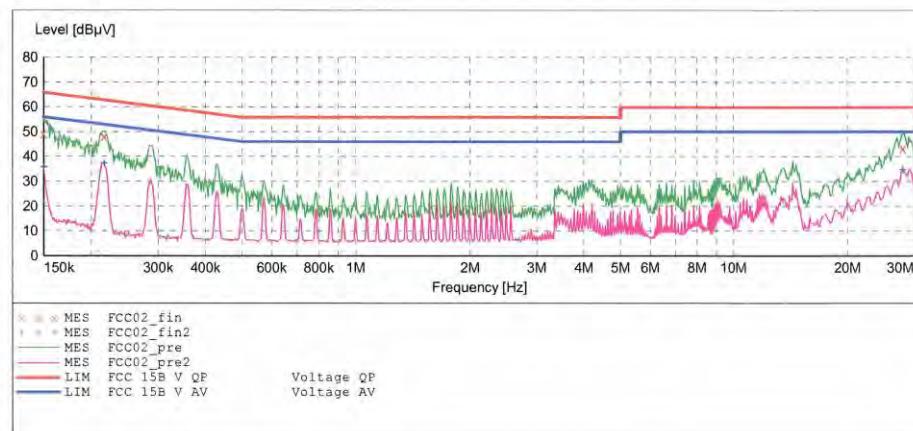
10/18/2013 10:51AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.213989	38.80	11.8	53	14.2	AV	L1	GND
	0.285246	32.80	12.1	51	17.9	AV	L1	GND
	28.799903	34.60	12.0	50	15.4	AV	L1	GND

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**ACCURATE TECHNOLOGY CO., LTD**
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Bluetooth 2.1 Speaker System M/N: NS-PSB4521  
 Manufacturer: JAZZ HIPSTER CORPORATION  
 Operating Condition: Aux in  
 Test Site: 1#Shielding Room  
 Operator: PEI  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 10/18/2013 / 10:52:40AM

**SCAN TABLE: "V 150K-30MHz fin"**

Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width			Time	Bandw.
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
						Average


**MEASUREMENT RESULT: "FCC02\_fin"**

10/18/2013 10:58AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.150000	49.30	11.5	66	16.7	QP	N	GND
	0.215704	48.30	11.8	63	14.7	QP	N	GND
	28.006255	43.40	12.0	60	16.6	QP	N	GND

**MEASUREMENT RESULT: "FCC02\_fin2"**

10/18/2013 10:58AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.150000	35.80	11.5	56	20.2	AV	N	GND
	0.215704	37.30	11.8	53	15.7	AV	N	GND
	28.006255	34.70	12.0	50	15.3	AV	N	GND

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### 5.1.10 Radiated emissions

#### RESULT:

Pass

Date of testing	:	2013-10-18
Test standard	:	FCC Part 15.109 ICES-003 Issue 5 February 2012
Basic standard	:	ANSI C63.4: 2009
Frequency range	:	30 – 6000MHz *
Limits	:	FCC Part 15.109(a) ICES-003 Issue 5 February 2012
Kind of test site	:	3m Semi-Anechoic Chamber

#### Test Setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	B
Earthing	:	Not Connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

\*- The EUT's highest frequency generated and used is less than 1000MHz, hence the highest scan frequency is up to 6GHz only.

For details refer to following test plot.

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**Test Plot of Radiated emissions**

**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

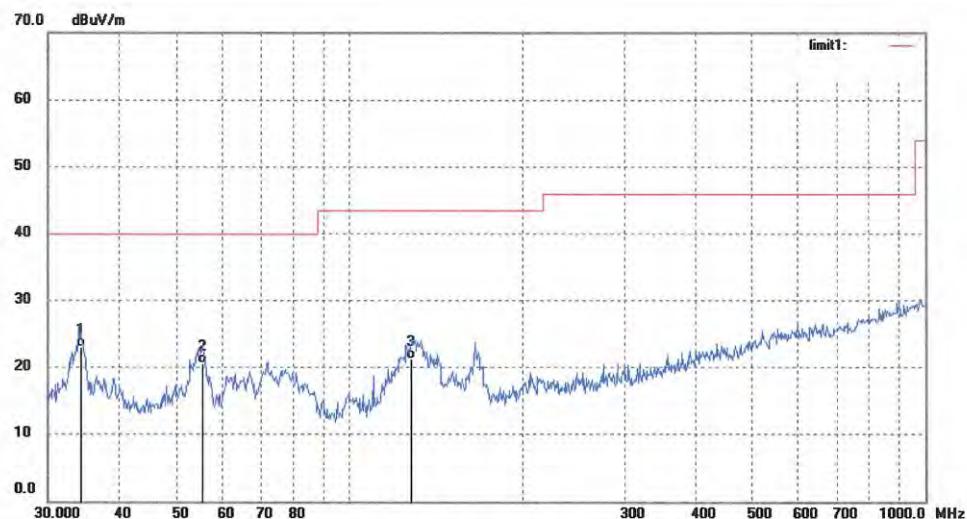
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #196  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Bluetooth 2.1 Speaker System  
Mode: Aux in  
Model: NS-PSB4521  
Manufacturer: JAZZ HIPSTER CORPORATION

Polarization: Horizontal  
Power Source: AC 120V/60Hz  
Date: 13/10/18/  
Time: 10/16/39  
Engineer Signature: PEI  
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.2559	34.28	-11.34	22.94	40.00	-17.06	QP			
2	55.4829	33.57	-13.06	20.51	40.00	-19.49	QP			
3	128.0355	34.99	-13.81	21.18	43.50	-22.32	QP			

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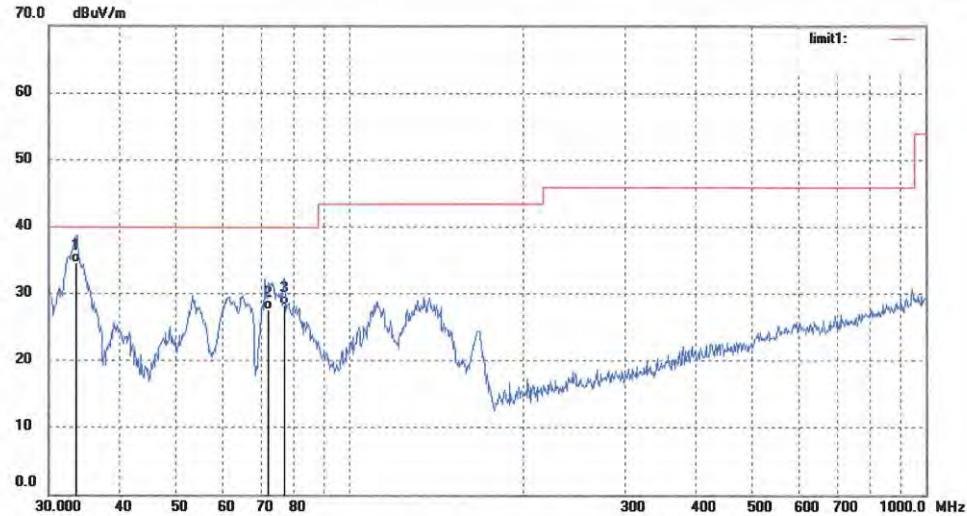
**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: PHY #195	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/18/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10/05/35
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: Aux in	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.7704	44.80	-10.30	34.50	40.00	-5.50	QP			
2	72.2111	43.90	-16.40	27.50	40.00	-12.50	QP			
3	76.9256	44.87	-16.66	28.21	40.00	-11.79	QP			

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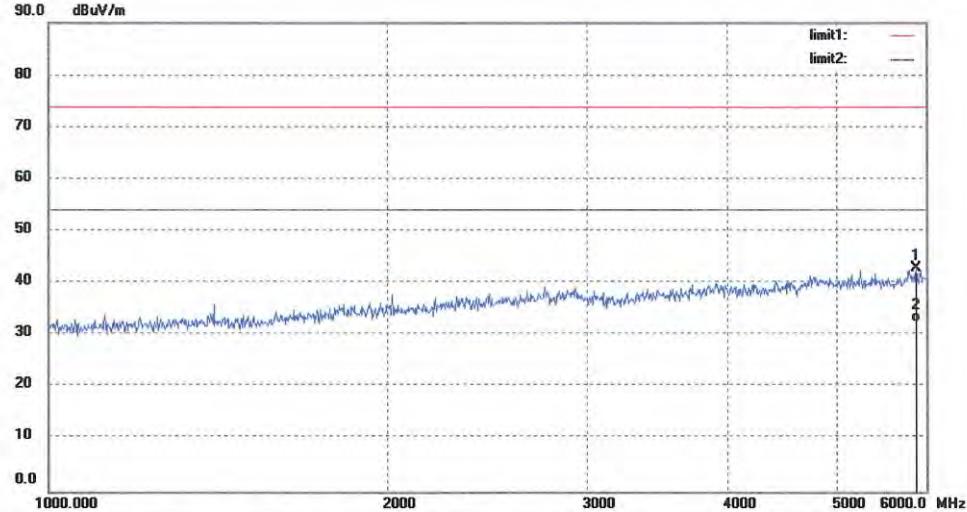
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #198	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/18/
Temp. ( C) / Hum. (%) 23 C / 48 %	Time: 10/35/11
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: Aux in	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5882.202	40.83	1.94	42.77	74.00	-31.23	peak			
2	5882.202	30.54	1.94	32.48	54.00	-21.52	AVG			

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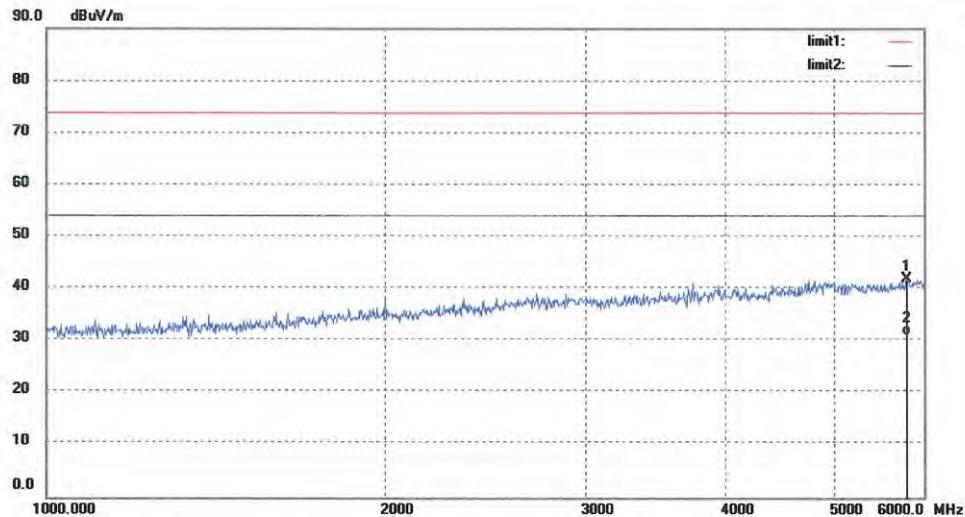
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #197	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/10/18/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10/26/59
EUT: Bluetooth 2.1 Speaker System	Engineer Signature: PEI
Mode: Aux in	Distance: 3m
Model: NS-PSB4521	
Manufacturer: JAZZ HIPSTER CORPORATION	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5804.795	39.93	1.98	41.91	74.00	-32.09	peak			
2	5804.795	29.22	1.98	31.20	54.00	-22.80	AVG			

## 6. Safety Human exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

**RESULT:** Pass

Test standard : RSS-102 Issue 4 March 2010  
FCC KDB Publication 447498 D01 v05r01

The maximum peak output power of the transmitter is 0.467mW (-3.31dBm) only, which less than 20mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4.

Since maximum peak output power of the transmitter is 0.467mW<96mW, and the distance from EUT to human is >50mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r01.

## 7. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



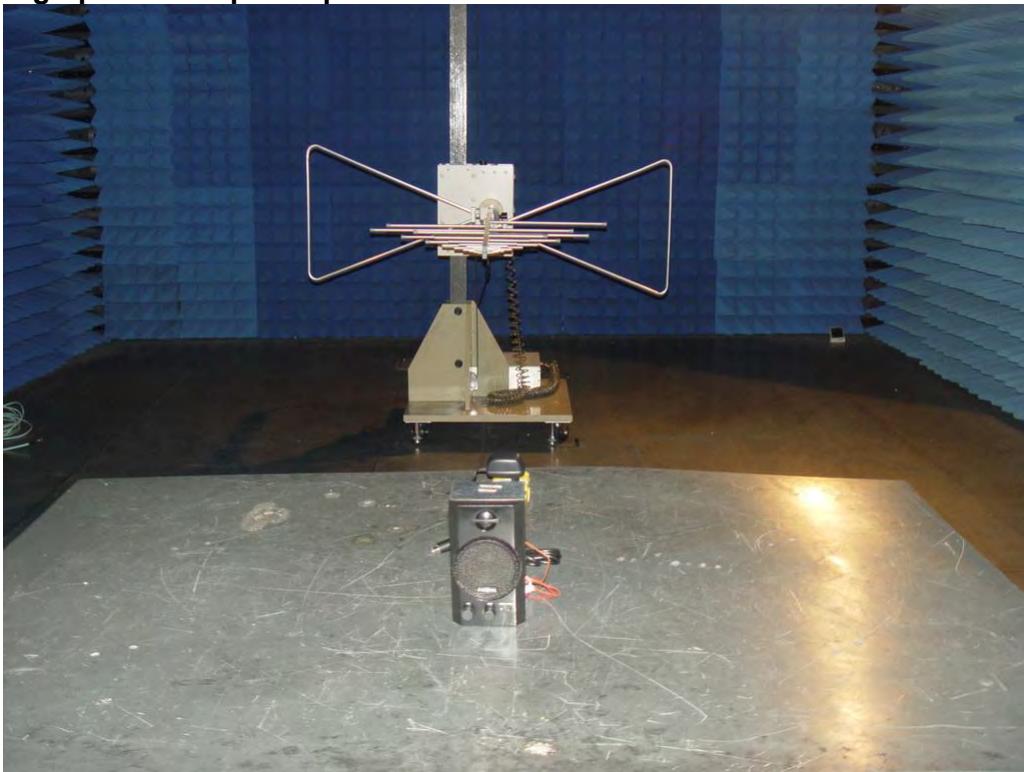
Photograph 2: Set-up for Radiated Emissions



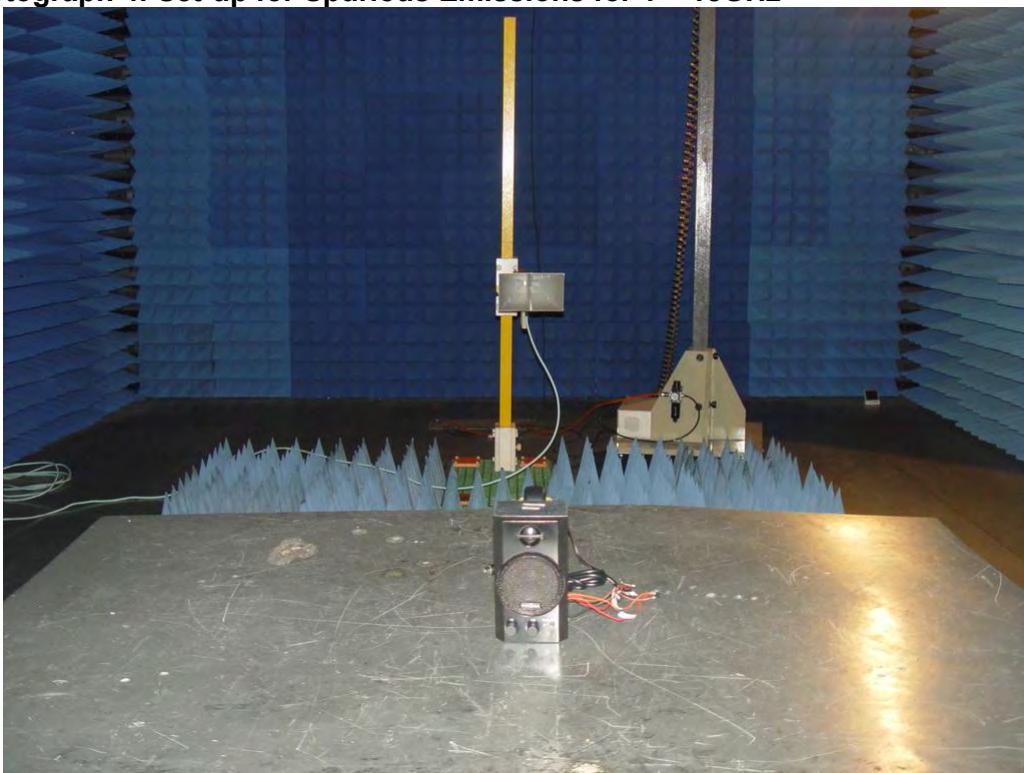
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**Photograph 3: Set-up for Spurious Emissions below 1GHz**



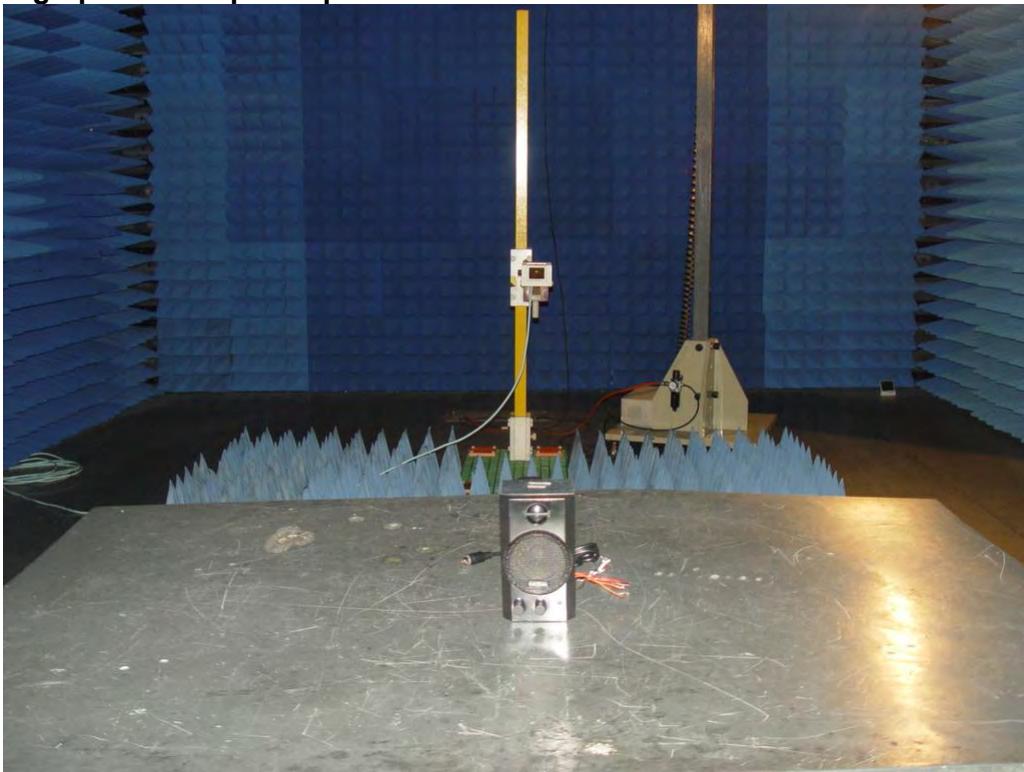
**Photograph 4: Set-up for Spurious Emissions for 1 – 18GHz**



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**Photograph 5: Set-up for Spurious Emissions for 18 – 26.5GHz**



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