

<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>17035527 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	164007373	Seite 1 von 96 <i>Page 1 of 96</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	16.08.2013		
<b>Auftraggeber:</b> <i>Client:</i>	Compupal Group Corporation, No.1555 Jiashan Avenue, Jiashan, Zhejiang 314113, China				
<b>Prüfgegenstand:</b> <i>Test item:</i>	BLUETOOTH SPEAKER				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	MD-SPBT01				
<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>	07.09.2013				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	N/A				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	09.09.2013 - 11.09.2013				
<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>			<b>kontrolliert von / reviewed by:</b>		
30.09.2013	Owen Tian/Project Engineer		30.09.2013	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:</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>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor
<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>					

## 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 speaker 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	MD-SPBT01
Bluetooth version	3.0
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-20~+45°C
Operation Voltage	DC 5V
Modulation	FHSS, GFSK, 8DPSK, $\pi/4$ DQPSK
Antenna Gain	-2dBi

#### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On
  - 1. Bluetooth mode
    - a. Transmitting
    - b. Receiving
  - 2. AUX input
- B. Charging via USB port
- C. Off

#### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.



### **3.5 Submitted Documents**

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

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

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

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 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
USB port	4 cores, non-shielded port, 3m	Signal 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

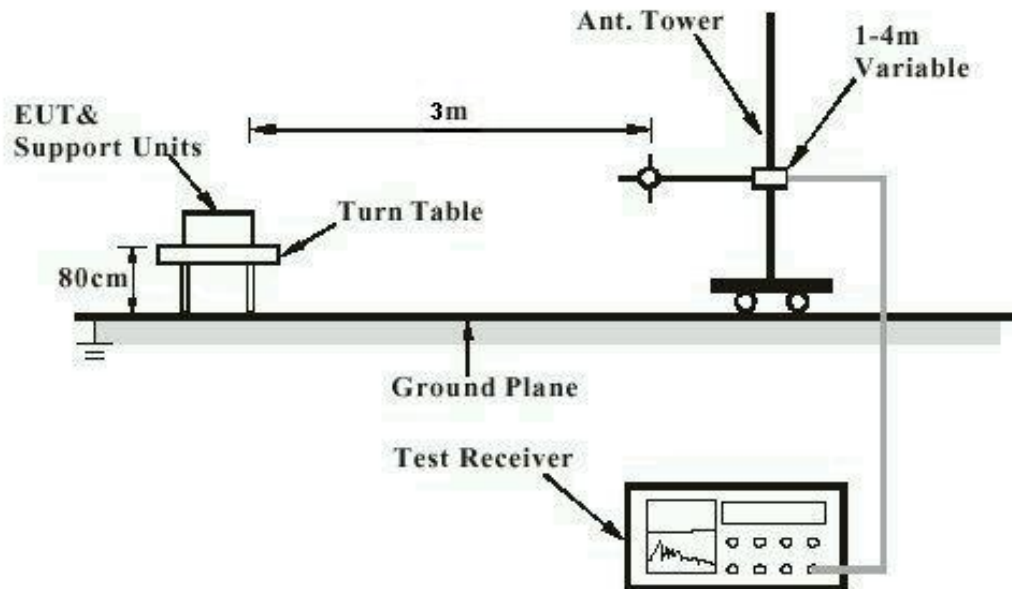
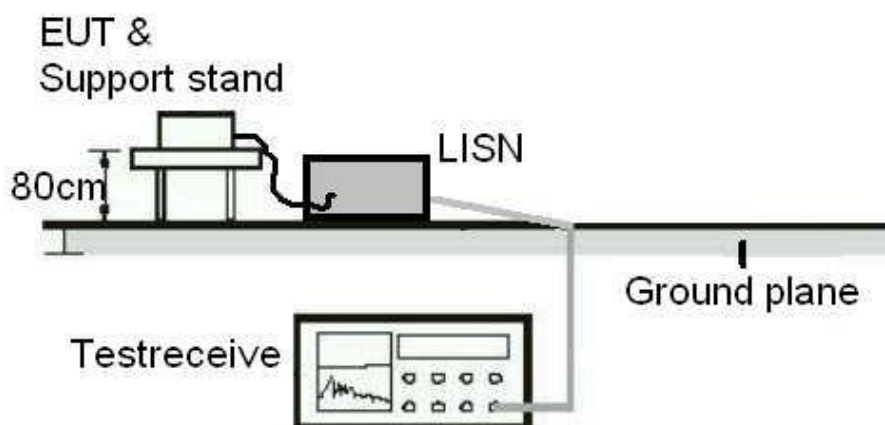
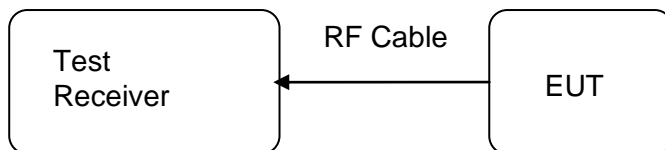


Diagram of Measurement Equipment Configuration for Conduction Measurement



**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 2dBi, Therefore the EUT is considered sufficient to comply with the provision.





**5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth****RESULT:** **Pass**

Date of testing : 2013-09-09  
Test standard : FCC part 15.247(d)  
RSS-210 A8.5  
Basic standard : ANSI C63.4: 2009  
Limit : 20dB (below that in the 100kHz bandwidth within  
the band that contains the highest level of the  
desired power);  
Kind of test site : Shield room

**Test setup**

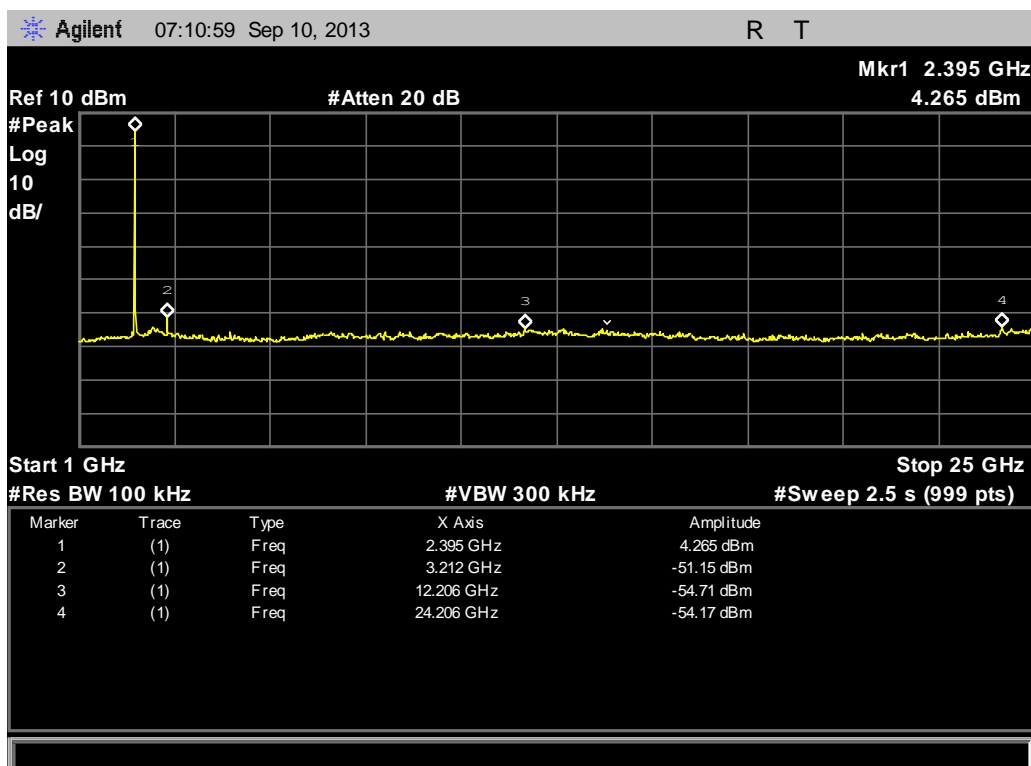
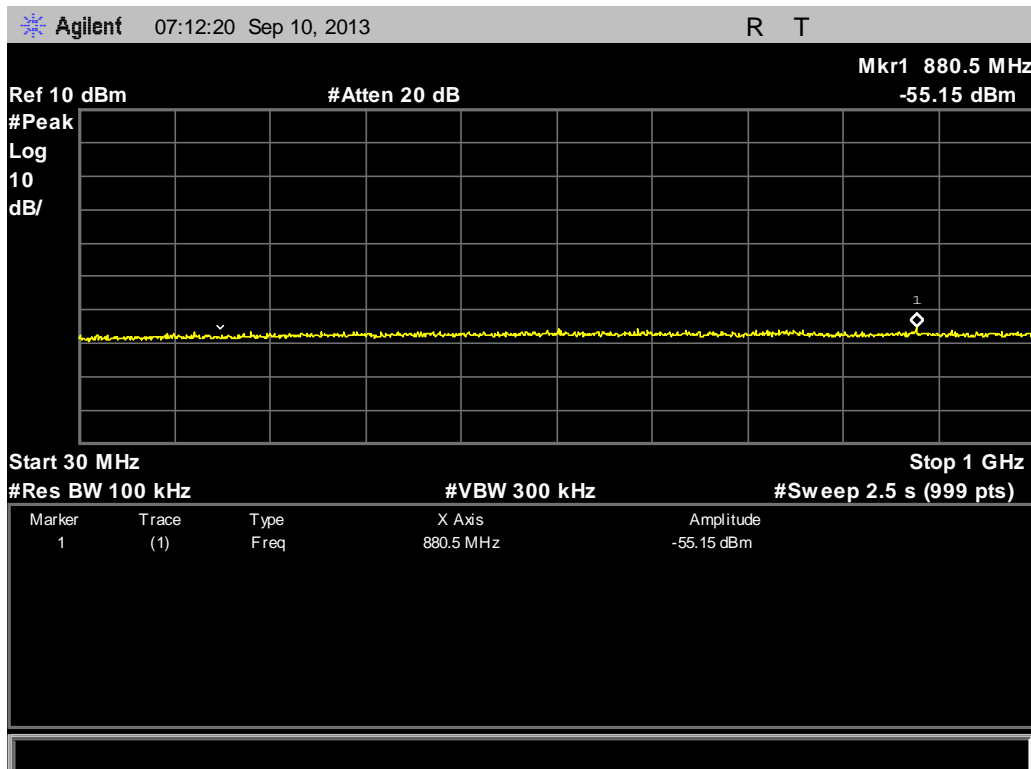
Test Channel : Low/ Middle/ High  
Operation mode : A.1.a  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

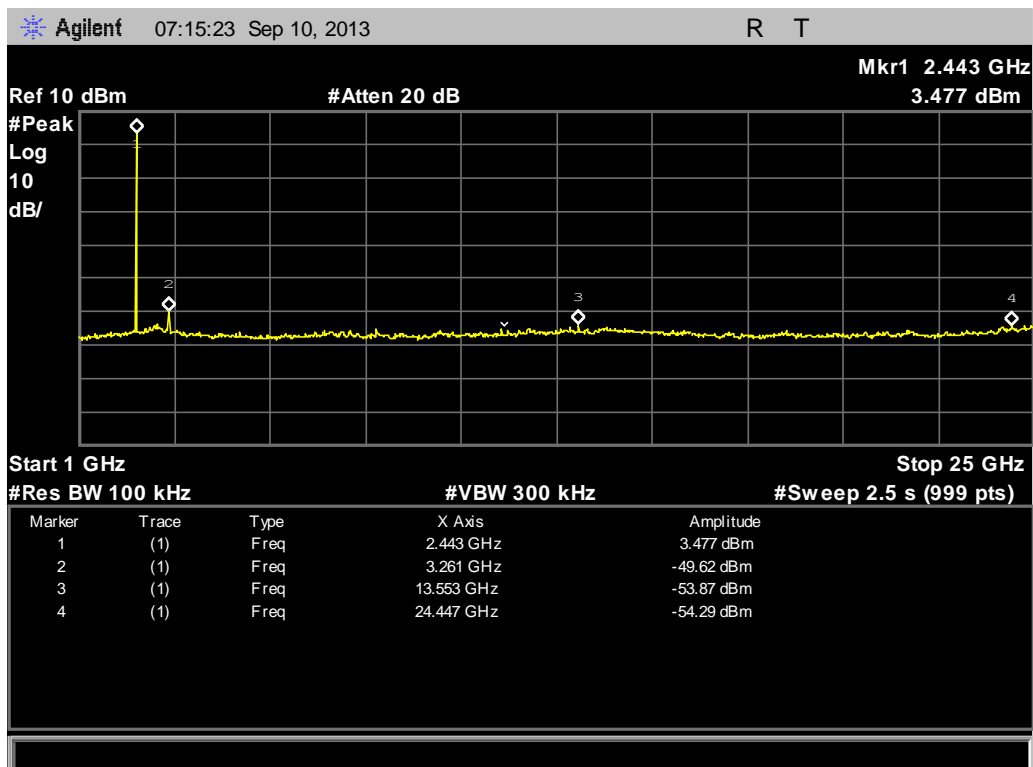
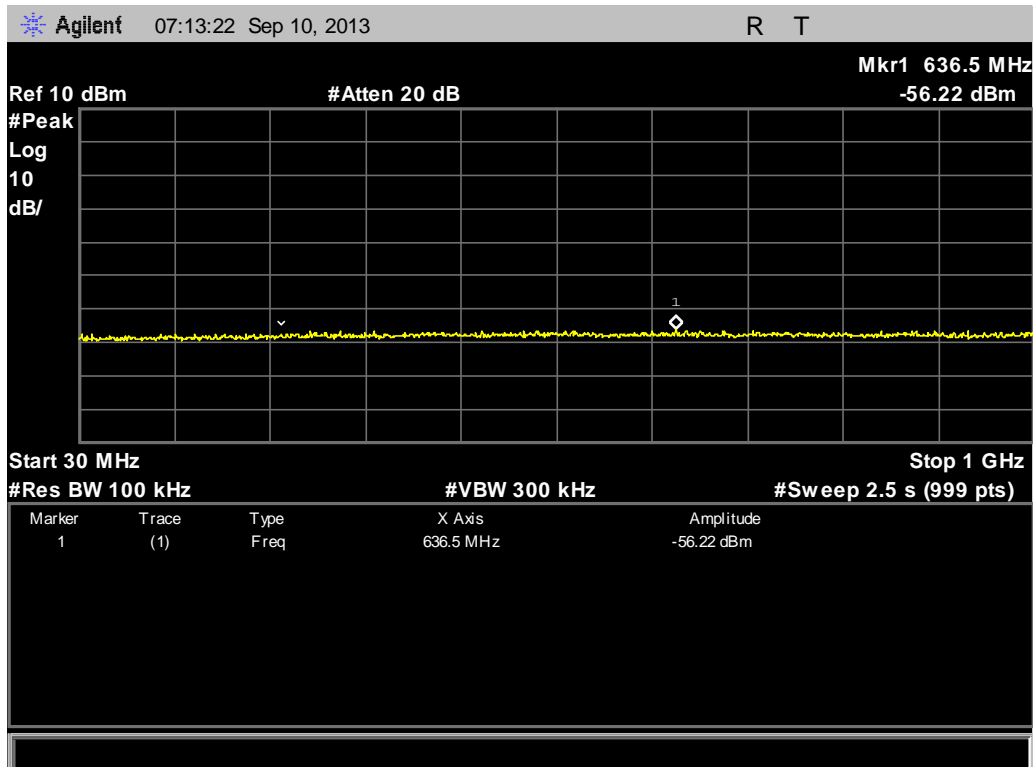
All emissions are more than 20dB below fundamental, details refer to following test plot,  
and compliance is achieved as well.

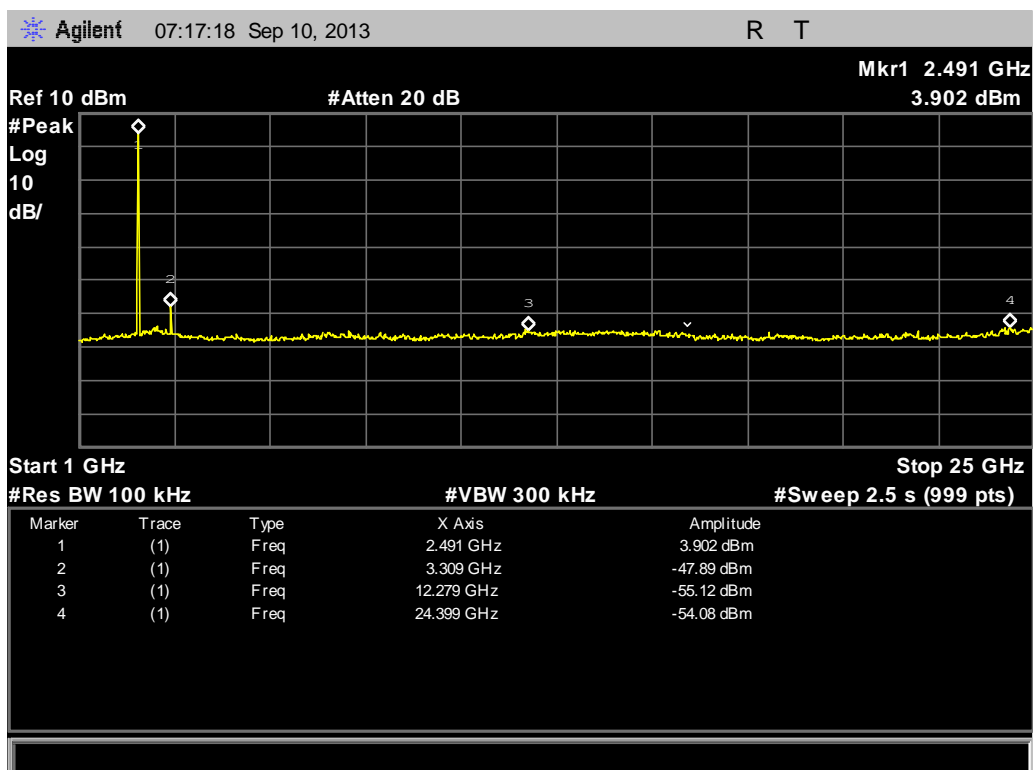
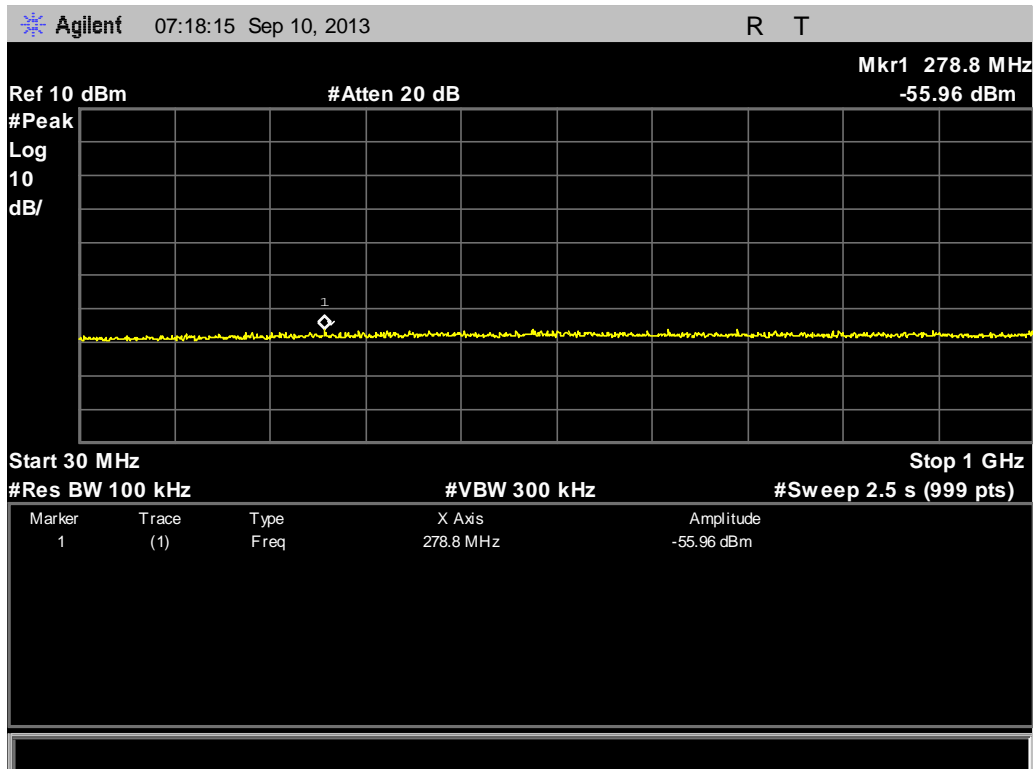


## Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

### Low Channel

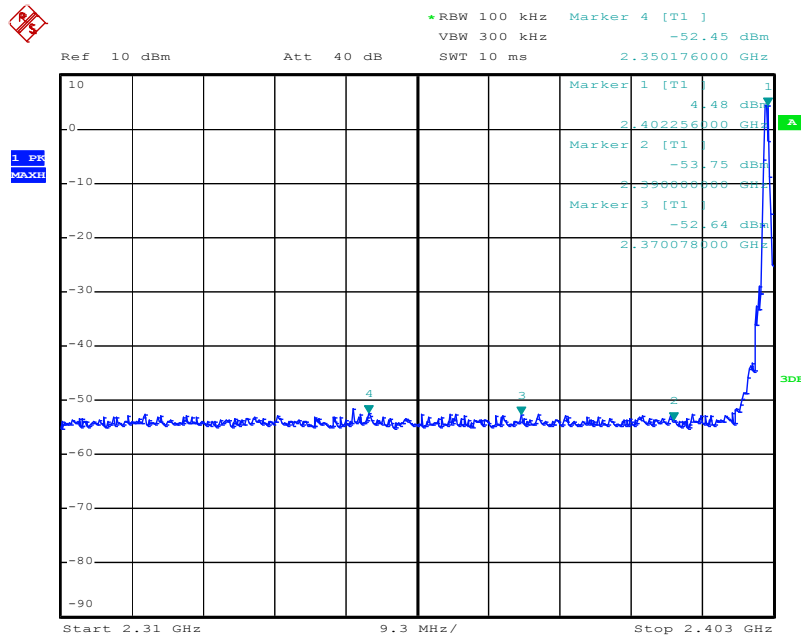


**Middle Channel**


**High Channel**


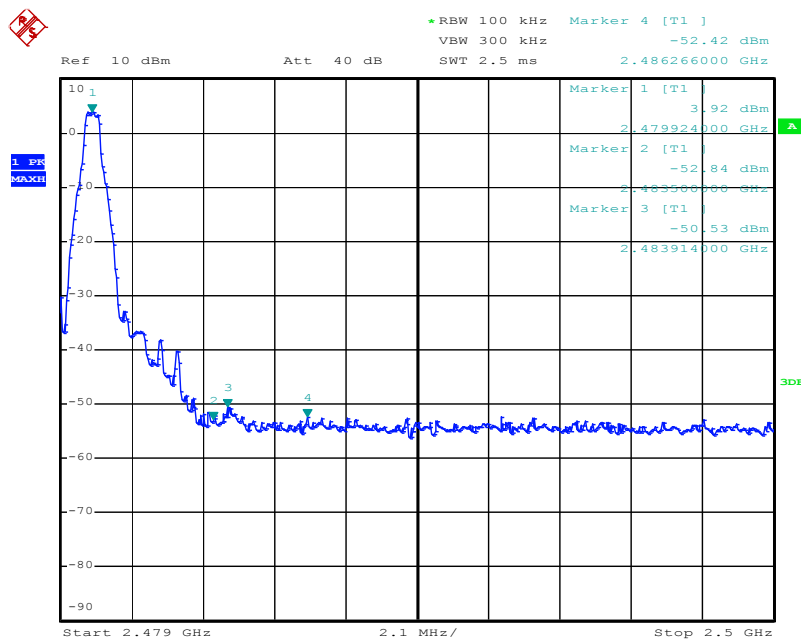
## Test Plot of 100 kHz Bandwidth of Frequency Band Edge

### Low Channel



Date: 9.SEP.2013 13:47:48

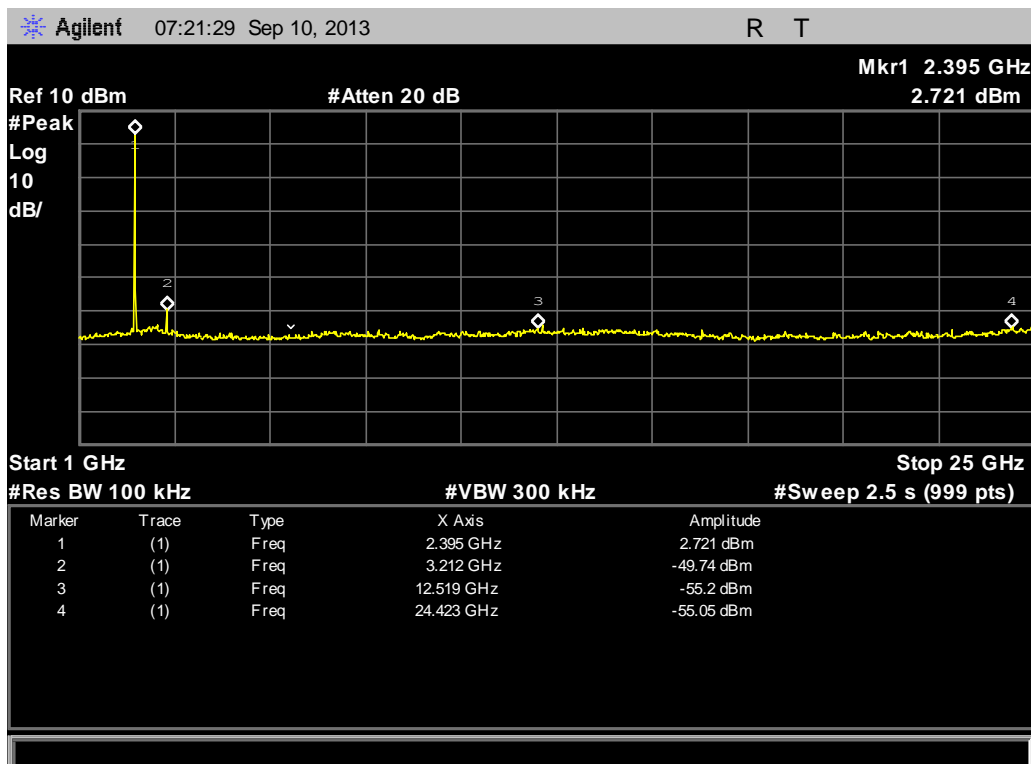
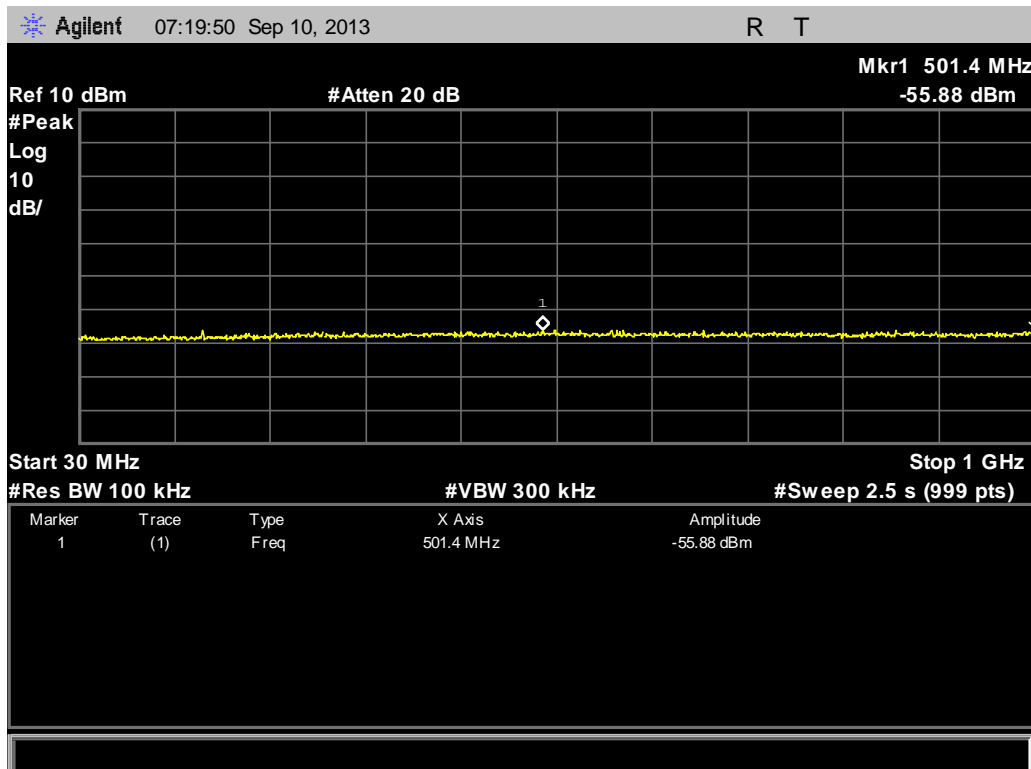
### High Channel

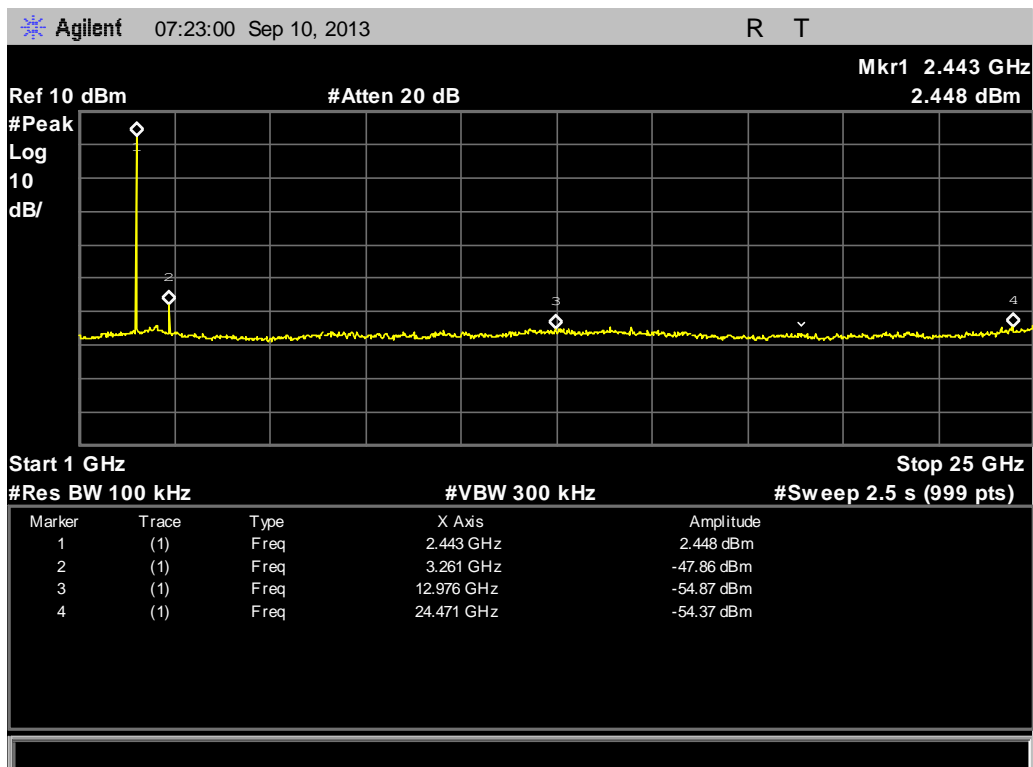
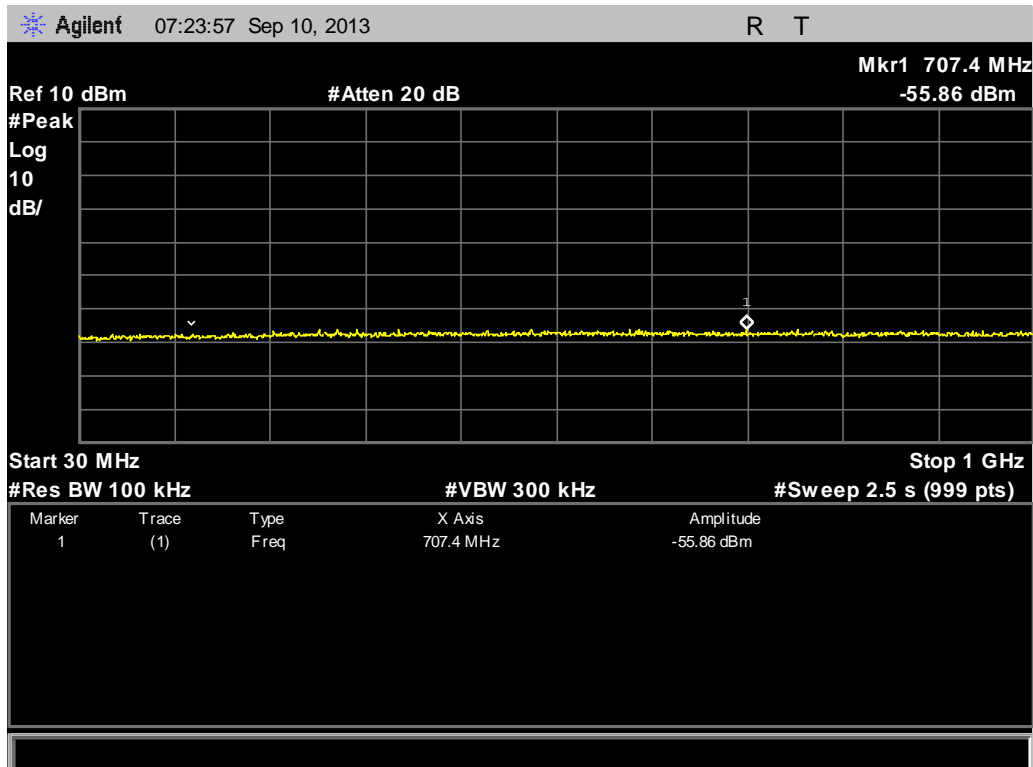


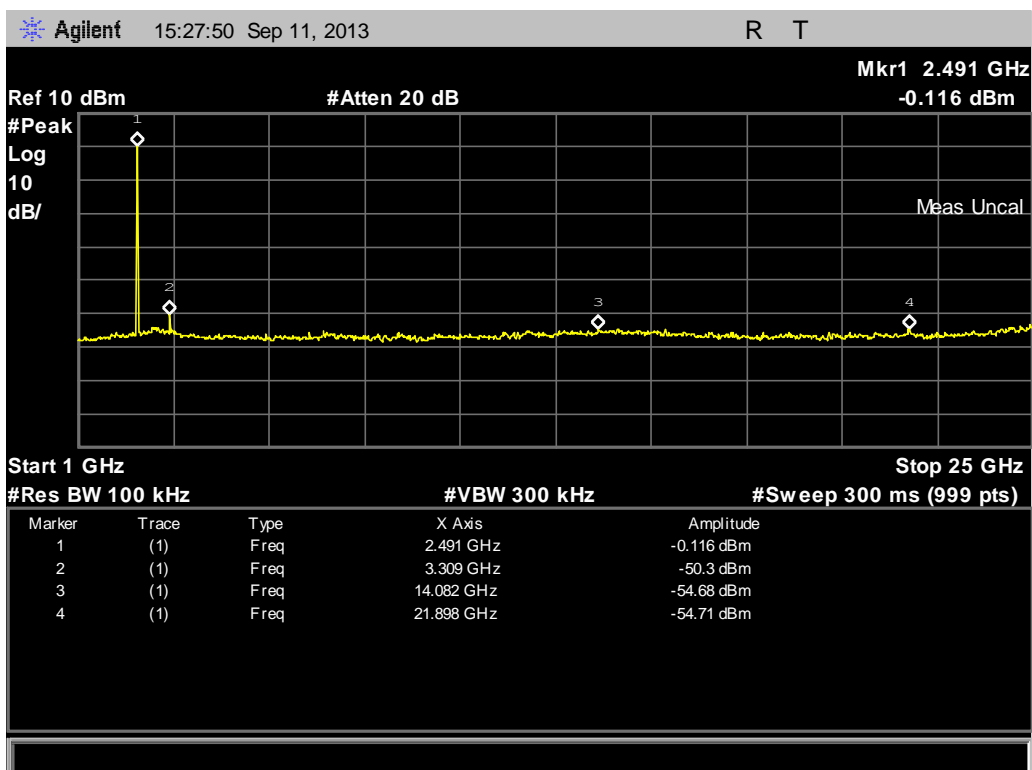
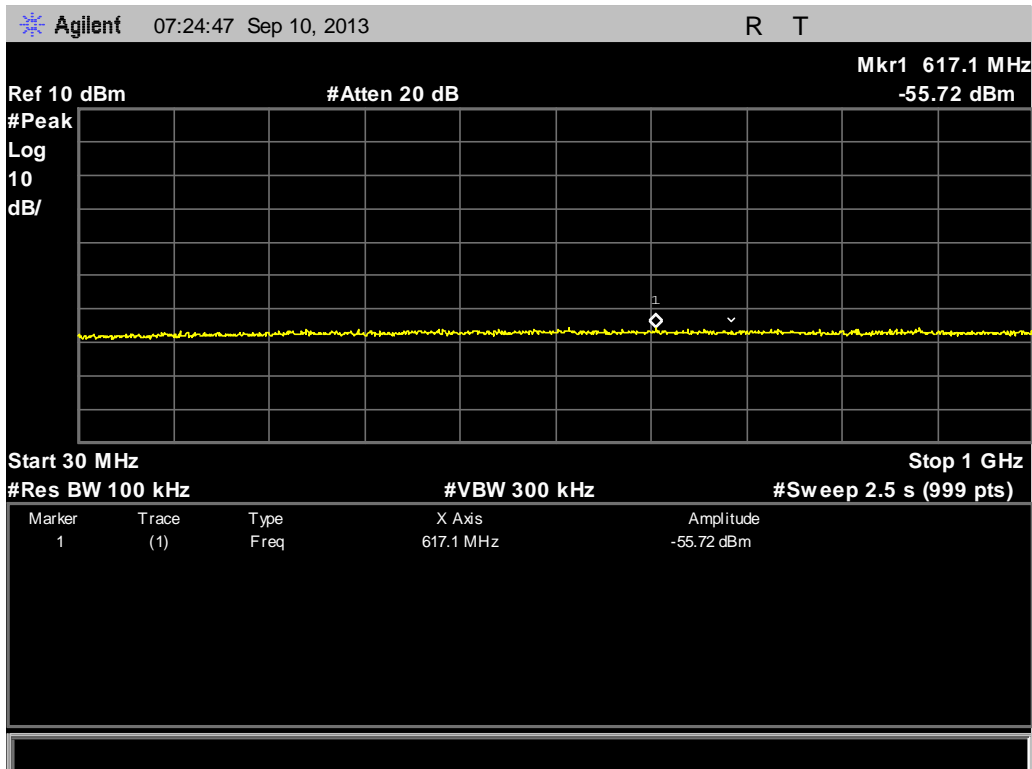
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## Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

### Low Channel

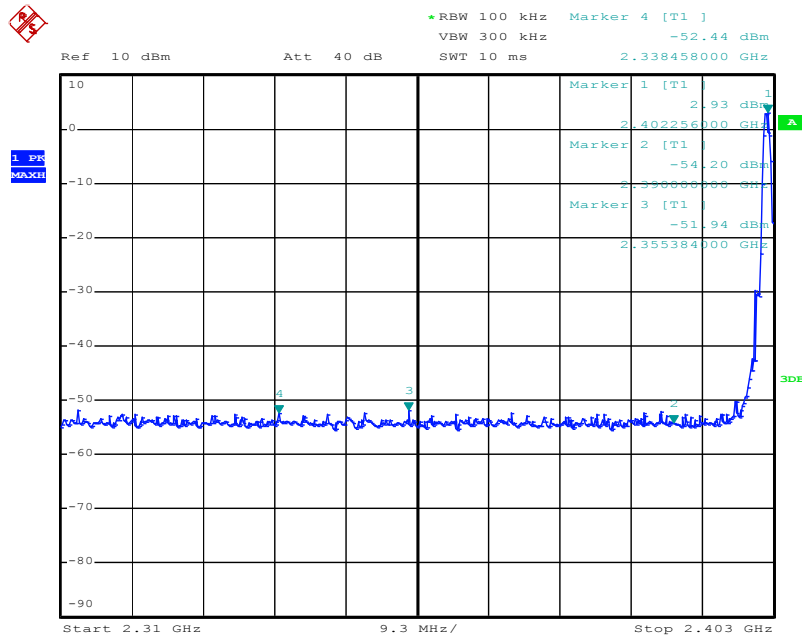


**Middle Channel**


**High Channel**


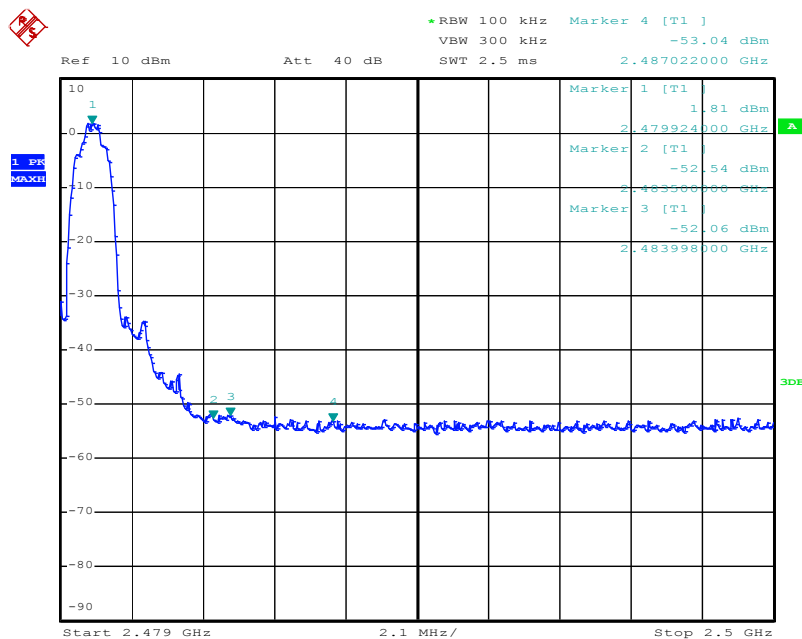
## Test Plot of 100 kHz Bandwidth of Frequency Band Edge

### Low Channel



Date: 9.SEP.2013 13:48:48

### High Channel



Date: 9.SEP.2013 13:43:36



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### 5.1.5 Spurious Emission

**RESULT:****Pass**

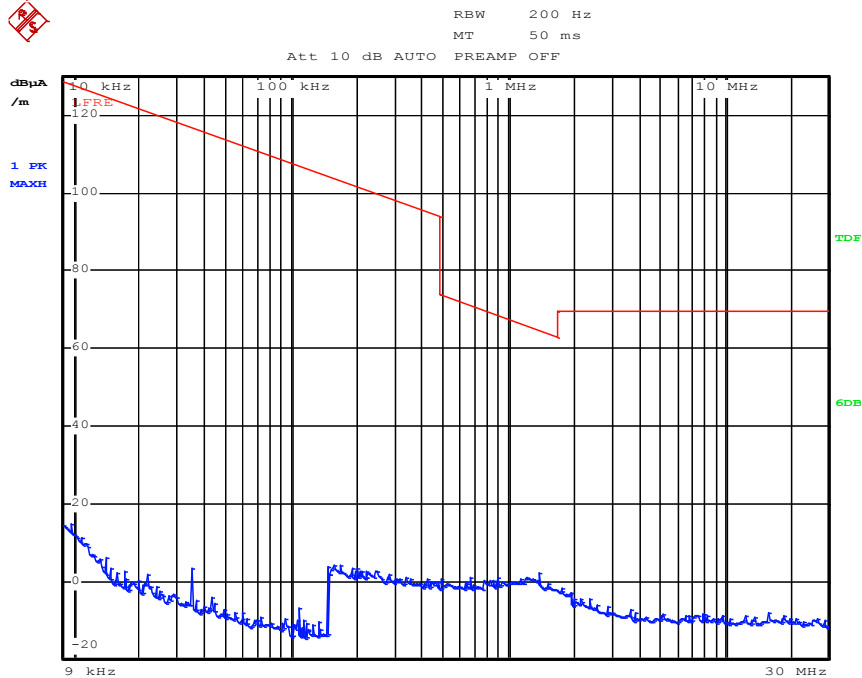
Date of testing : 2013-09-10  
Test standard : FCC part 15.247(d)  
RSS-210 Clause 2.2  
Basic standard : ANSI C63.4: 2009  
Limits : FCC part 15.209(a)  
Kind of test site : 3m Semi-Anechoic Chamber

**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

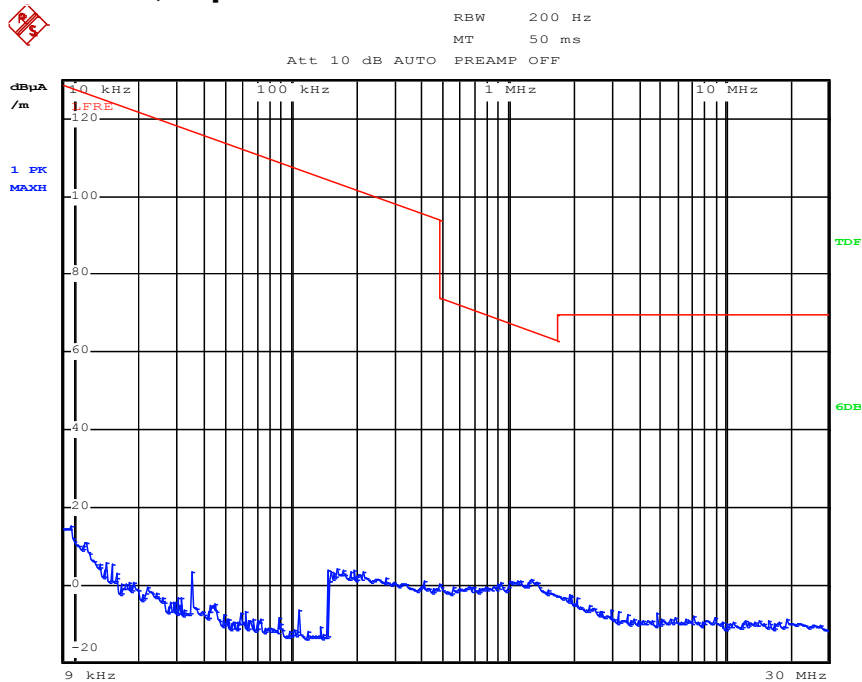
For details refer to following test plot.

### Test Plot of Spurious Emission of transmitting Low channel, X polarization:

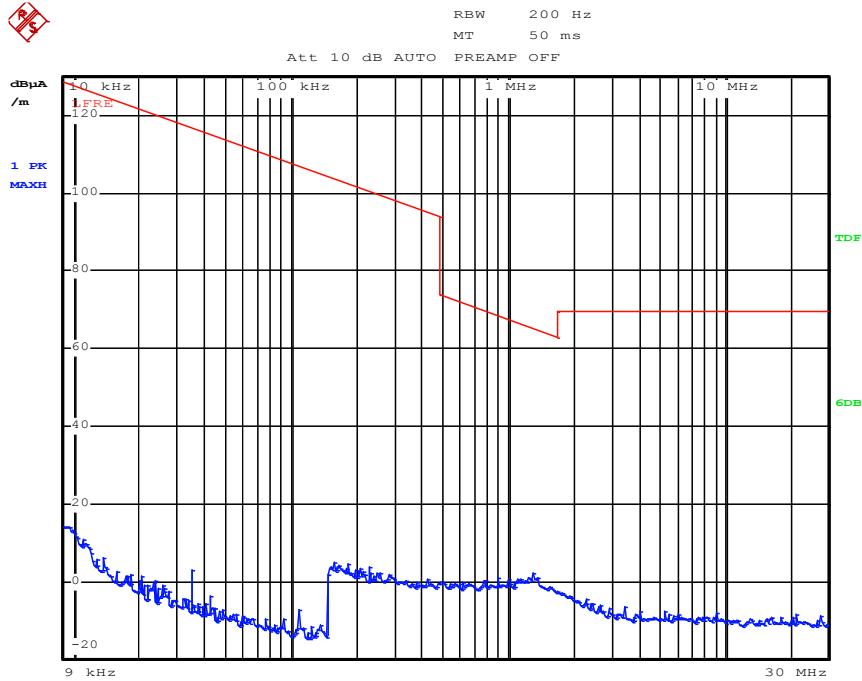


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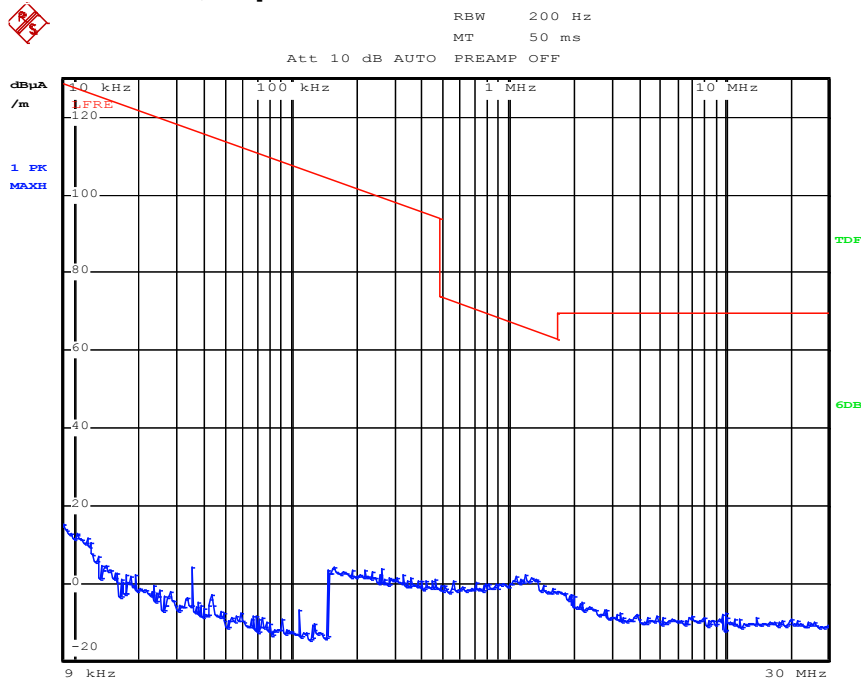
### Low channel, Y polarization:



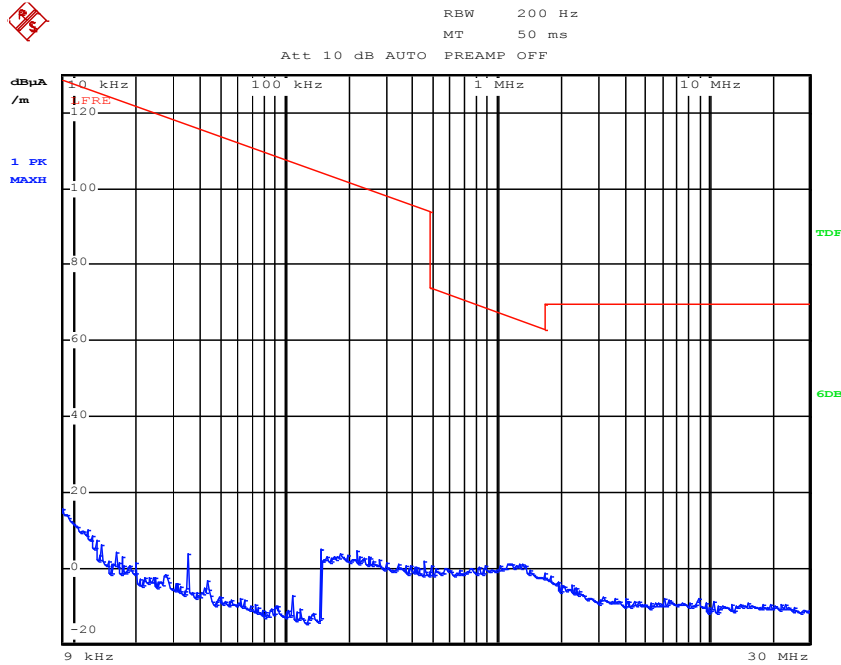
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**Low channel, Z polarization:**


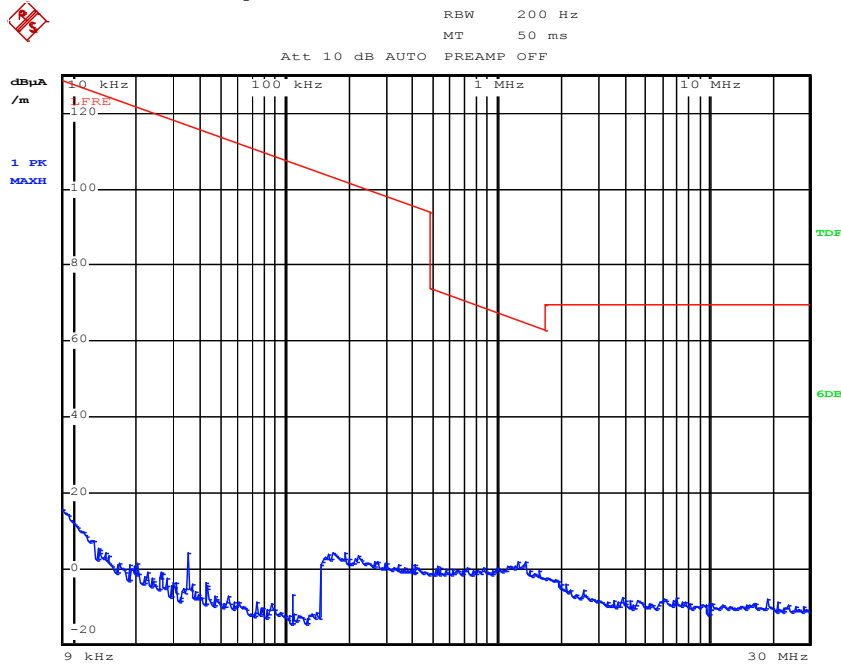
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**Middle channel, X polarization:**


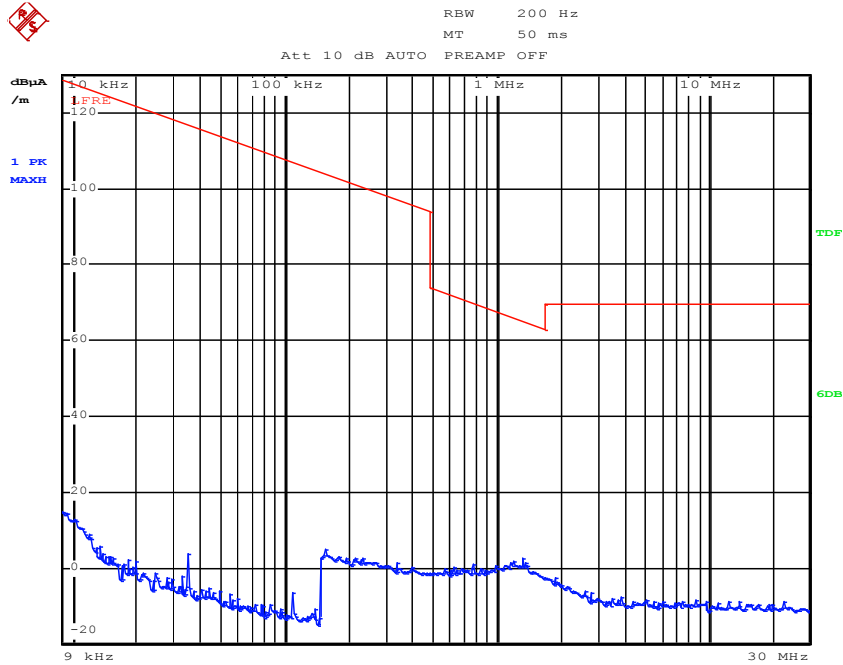
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**Middle channel, Y polarization:**


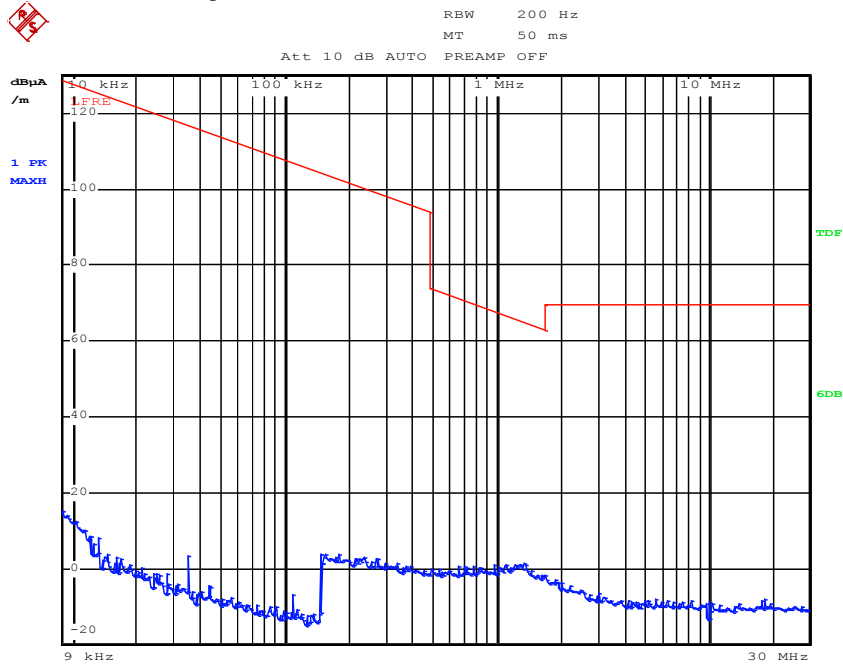
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**Middle channel, Z polarization:**


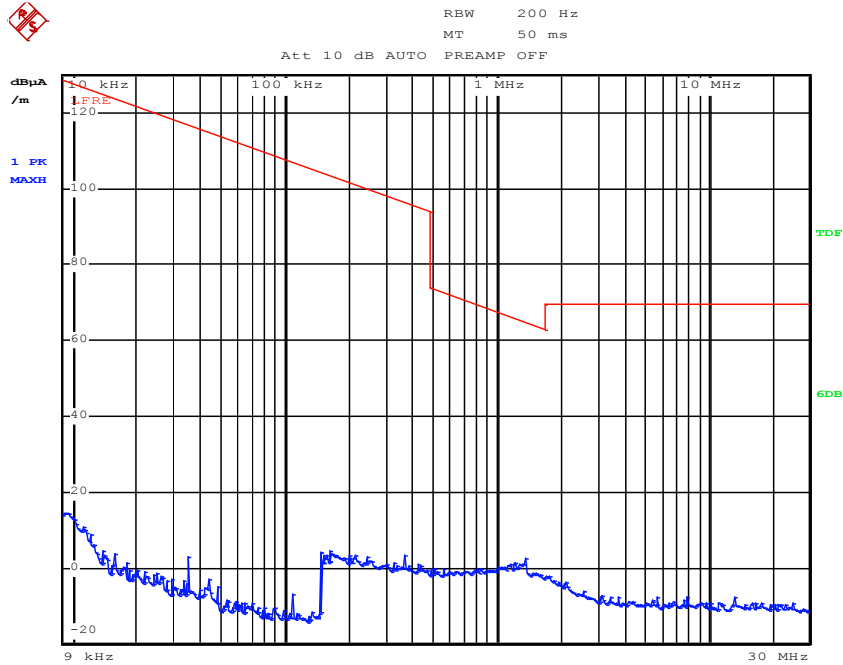
Date: 11.SEP.2013 09:55:26

**High channel, X polarization:**


Date: 11.SEP.2013 09:57:21

**High channel, Y polarization:**


Date: 11.SEP.2013 09:59:15

**High channel, Z polarization:**


Date: 11.SEP.2013 10:01:12

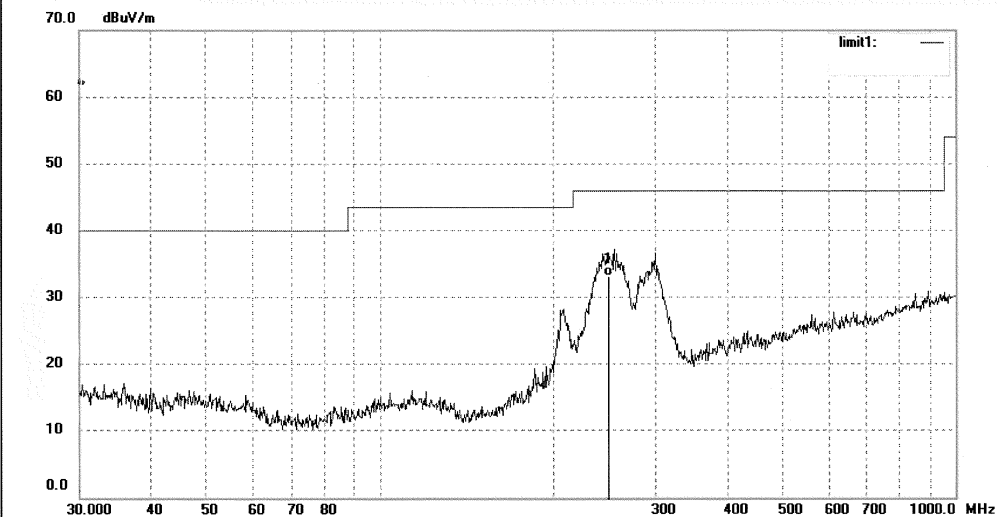

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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
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 Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: PHY #19	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 11:26:37
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	249.8025	43.89	-10.77	33.12	46.00	-12.88	QP			


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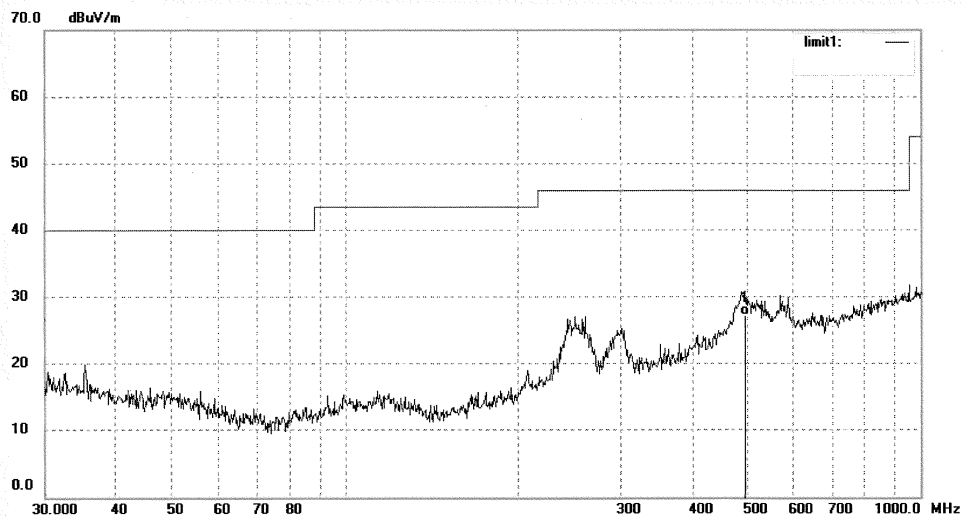
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #20	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 11:35:24
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	495.2379	32.23	-5.03	27.20	46.00	-18.80	QP			




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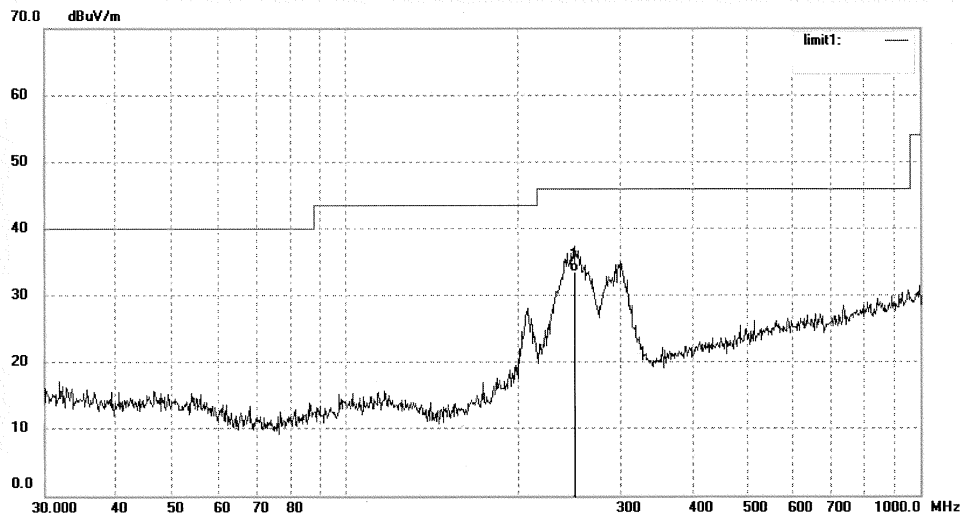
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #22	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 11:52:04
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	249.6074	44.20	-10.77	33.43	46.00	-12.57	QP			


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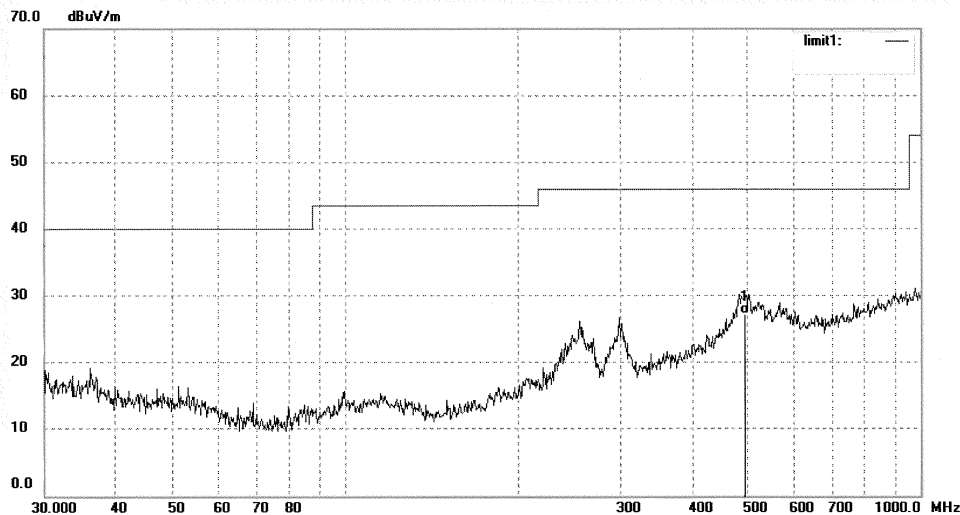
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #21	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 11:44:50
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	495.2379	32.33	-5.03	27.30	46.00	-18.70	QP			


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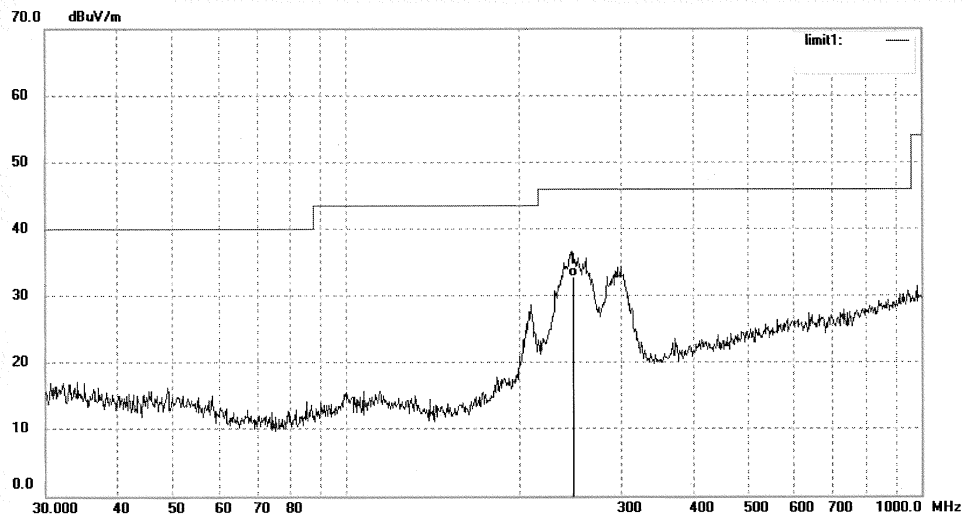
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #23	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12:01:25
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	249.1238	43.52	-10.79	32.73	46.00	-13.27	QP			


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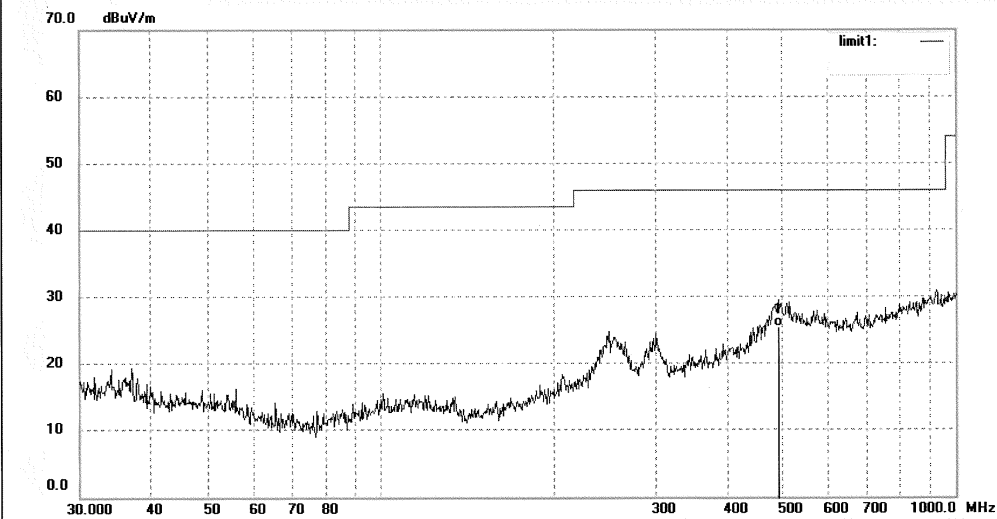
Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: PHY #24	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12:10:52
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) Corporation	

Note:



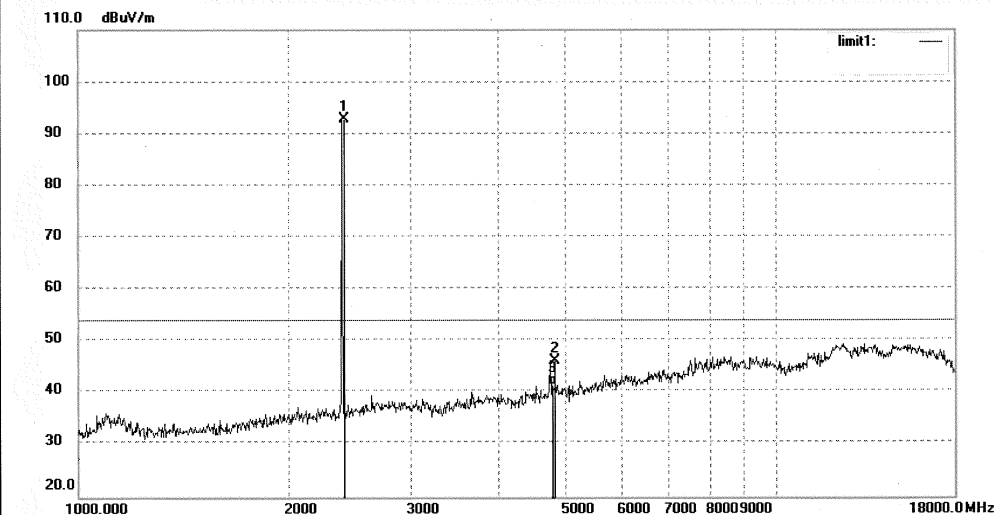
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	493.5009	30.51	-5.09	25.42	46.00	-20.58	QP			


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 Fax:+86-0755-26503396

Job No.: PHY #11	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 9:54:50
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	100.22	-7.45	92.77	/	/	peak			
2	4803.986	46.50	-0.30	46.20	74.00	-27.80	peak			
3	4803.986	41.88	-0.30	41.58	54.00	-12.42	AVG			


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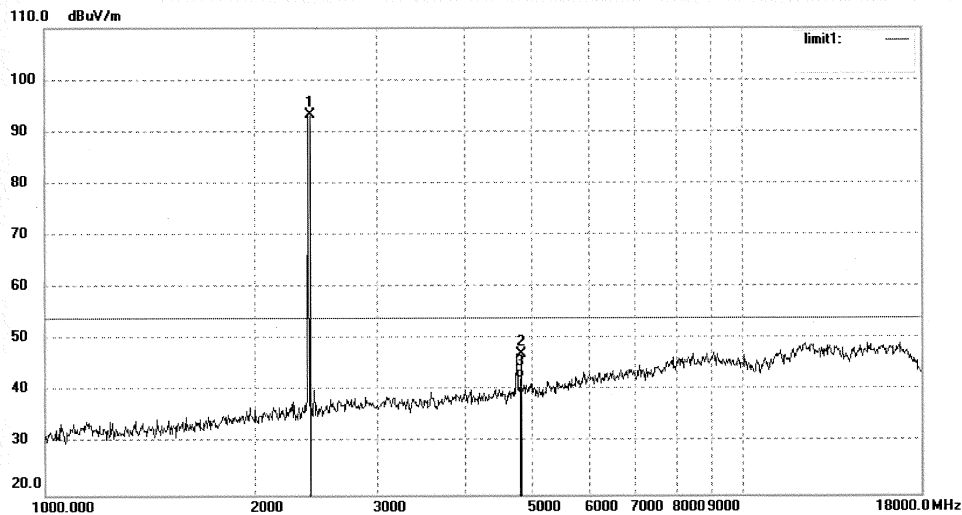
Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: PHY #12	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10:06:38
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	100.73	-7.45	93.28	/	/	peak			
2	4803.979	47.50	-0.30	47.20	74.00	-26.80	peak			
3	4803.979	42.79	-0.30	42.49	54.00	-11.51	AVG			


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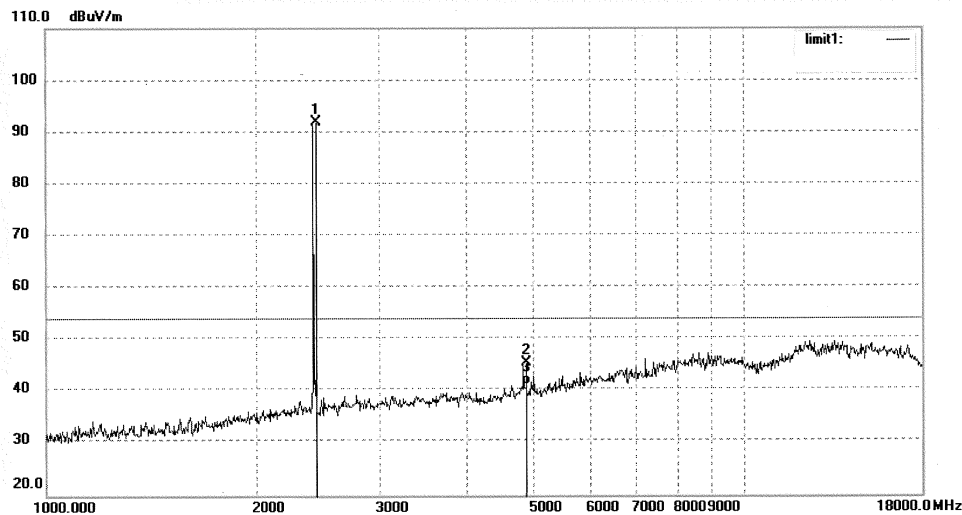
Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: PHY #14	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10:30:27
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	99.13	-7.35	91.78	/	/	peak			
2	4881.958	45.48	0.14	45.62	74.00	-28.38	peak			
3	4881.958	41.02	0.14	41.16	54.00	-12.84	AVG			

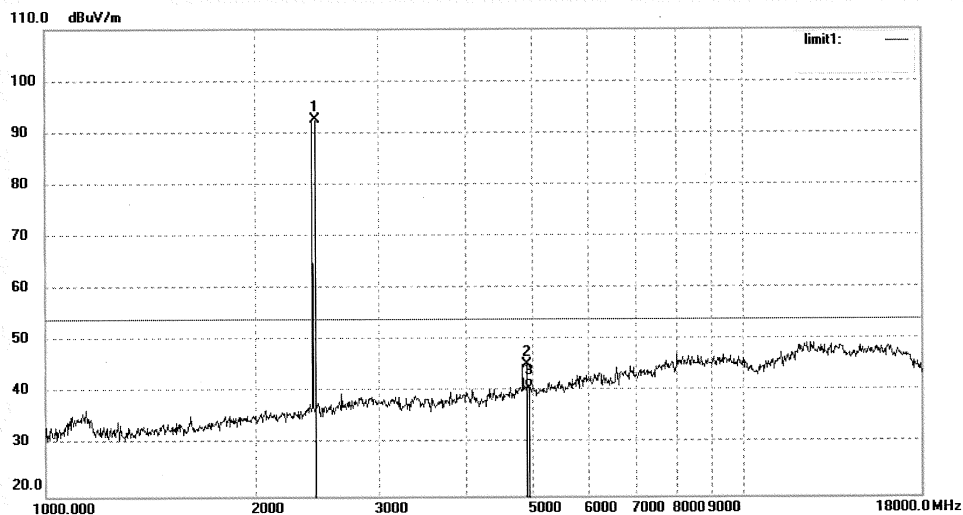

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 Site: 2# Chamber  
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 Fax:+86-0755-26503396

Job No.: PHY #13	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10:19:48
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	99.94	-7.35	92.59	/	/	peak			
2	4881.965	45.25	0.14	45.39	74.00	-28.61	peak			
3	4881.965	40.73	0.14	40.87	54.00	-13.13	AVG			




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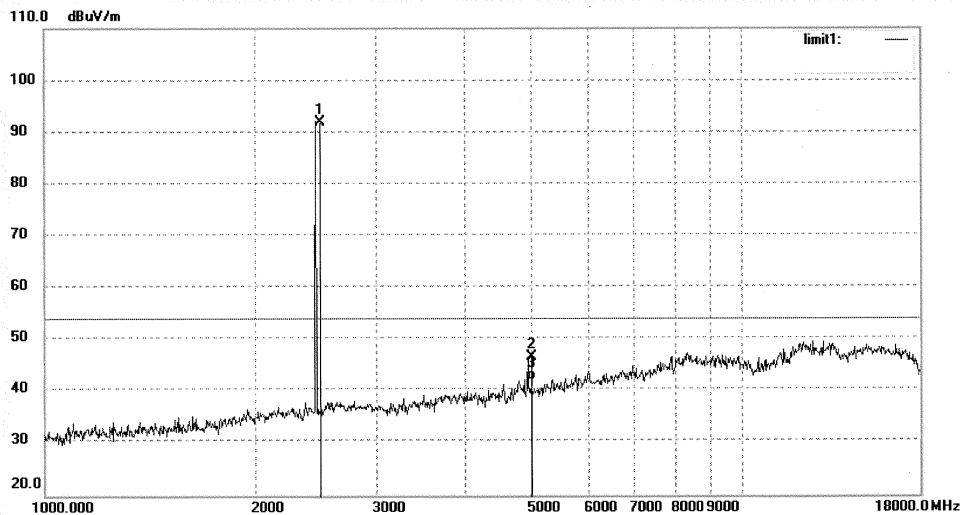
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #15	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10:41:55
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) Corporation	

Note:



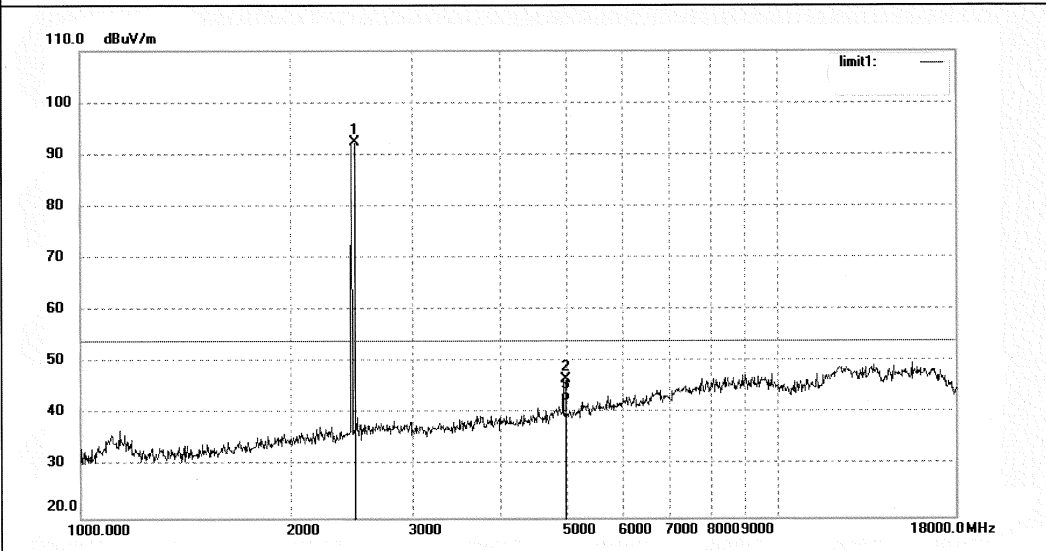
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	99.37	-7.37	92.00	/	/	peak			
2	4959.982	46.17	0.52	46.69	74.00	-27.31	peak			
3	4959.982	41.65	0.52	42.17	54.00	-11.83	AVG			


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

Job No.: PHY #16	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 10:53:50
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	99.61	-7.37	92.24	/	/	peak			
2	4959.984	46.16	0.52	46.68	74.00	-27.32	peak			
3	4959.984	41.79	0.52	42.31	54.00	-11.69	AVG			


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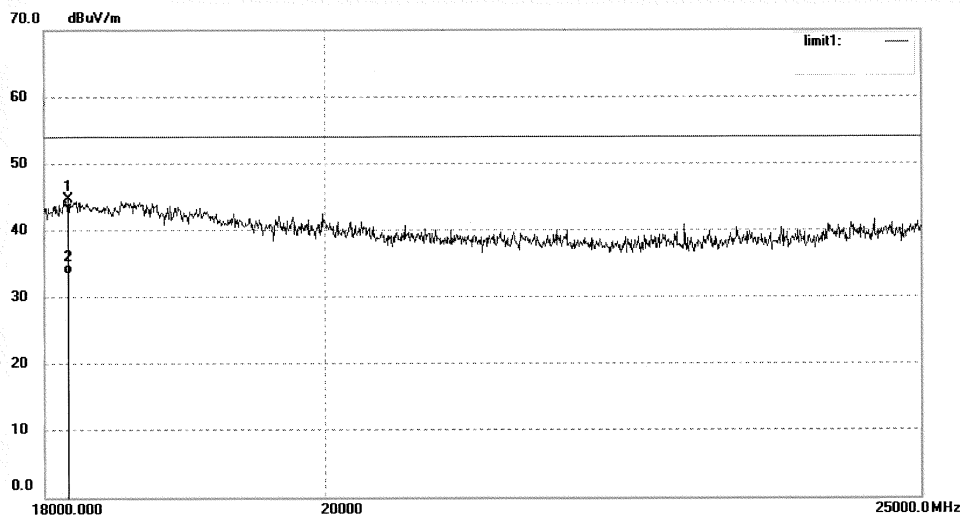
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #37	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 14:11:17
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	18160.686	28.31	16.45	44.76	54.00	-9.24	peak			
2	18160.686	17.06	16.45	33.51	54.00	-20.49	AVG			

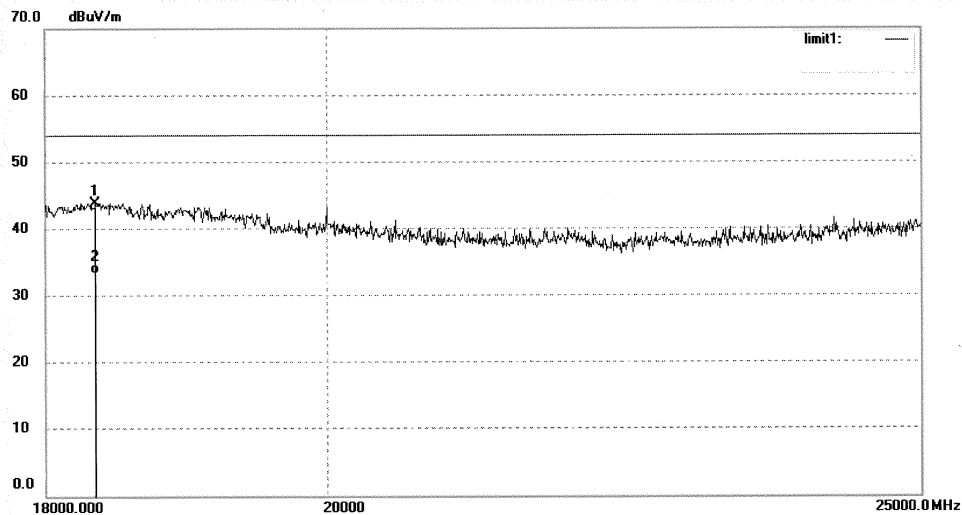

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Job No.: PHY #38	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 14:21:28
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	18340.909	27.01	16.85	43.86	54.00	-10.14	peak			
2	18340.909	16.45	16.85	33.30	54.00	-20.70	AVG			


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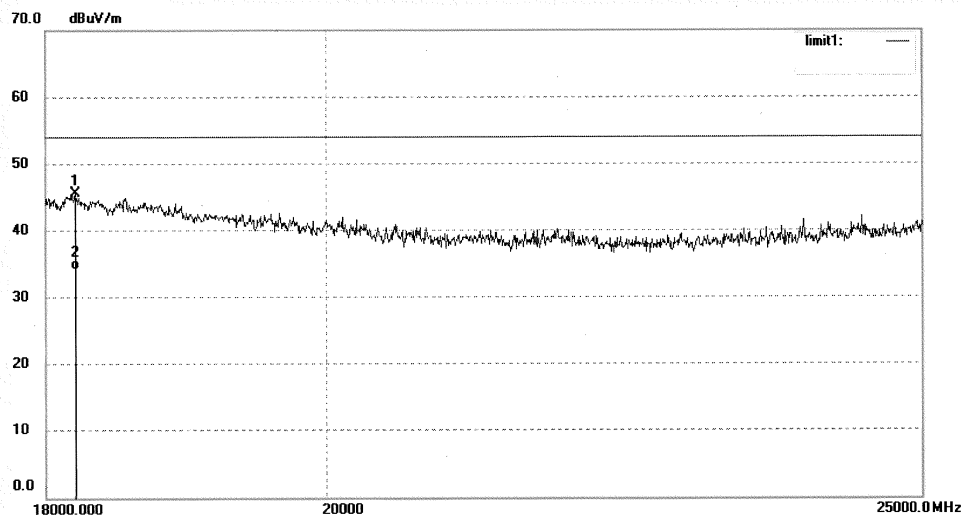
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #40	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 14:40:12
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	18202.579	28.99	16.55	45.54	54.00	-8.46	peak			
2	18202.579	17.62	16.55	34.17	54.00	-19.83	AVG			


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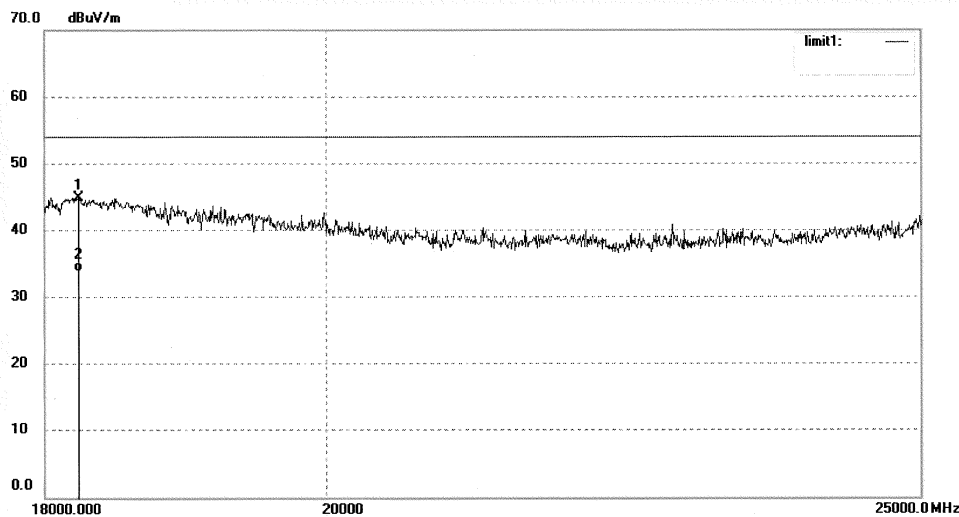
Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: PHY #39	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 14:32:55
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) Corporation	

Note:



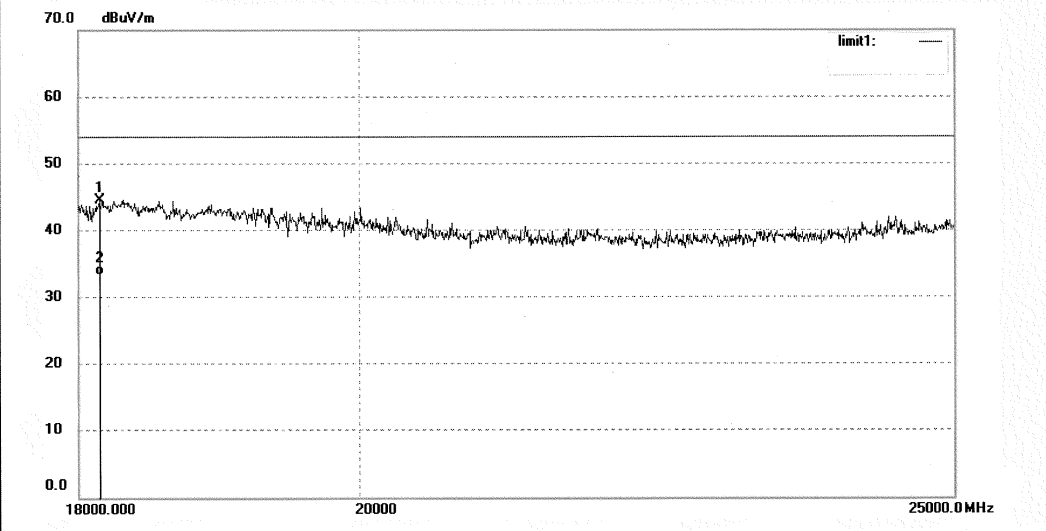
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18232.561	28.30	16.61	44.91	54.00	-9.09	peak			
2	18232.561	17.23	16.61	33.84	54.00	-20.16	AVG			


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 Fax:+86-0755-26503396

Job No.: PHY #41	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 14:49:35
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	18142.761	28.17	16.41	44.58	54.00	-9.42	peak			
2	18142.761	16.87	16.41	33.28	54.00	-20.72	AVG			


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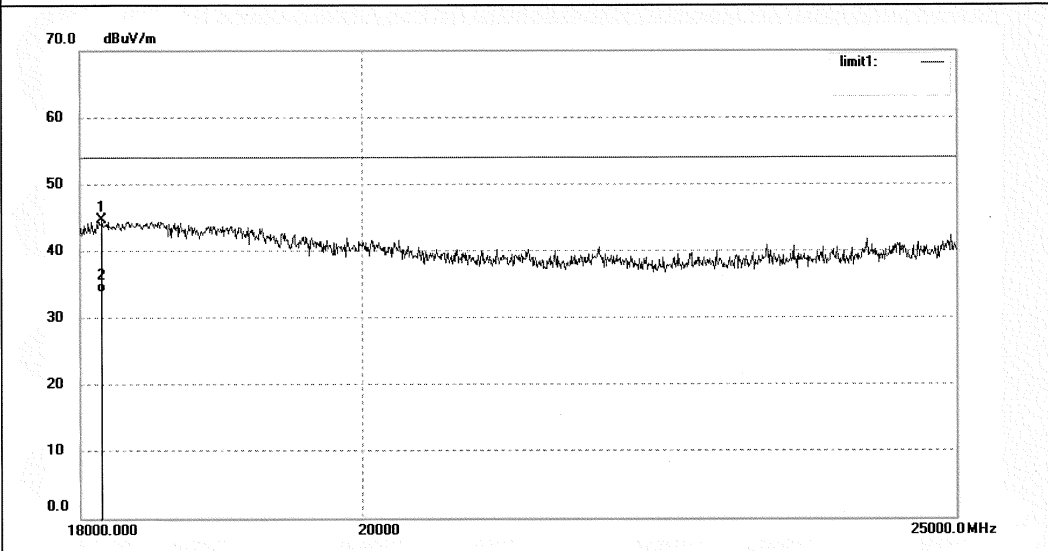
Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: PHY #42	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 14:57:40
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	28.21	16.43	44.64	54.00	-9.36	peak			
2	18148.734	17.48	16.43	33.91	54.00	-20.09	AVG			



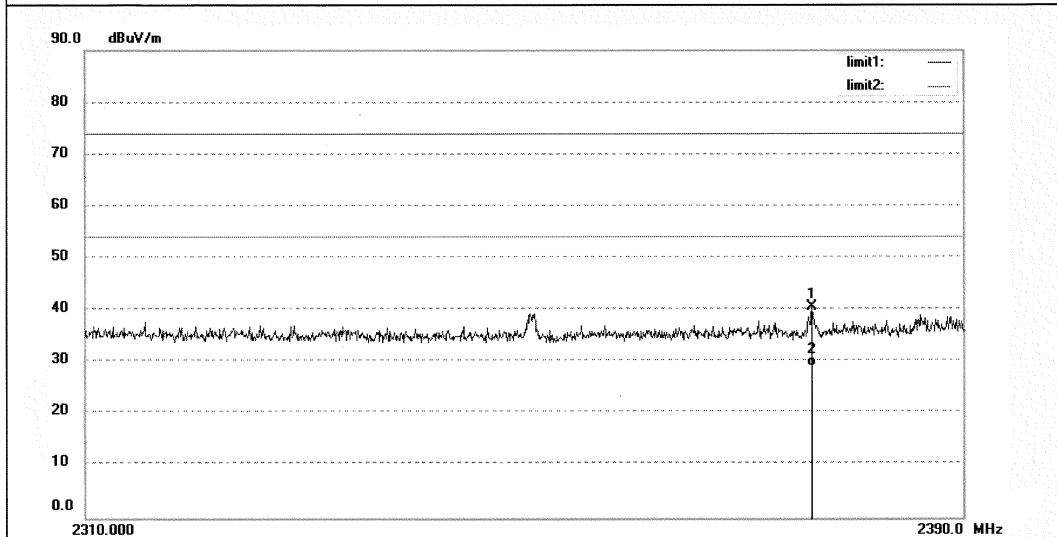
## Test Plot of Frequency Band Edge


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 Site: 2# Chamber  
 Tel:+86-0755-26503290  
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Job No.: PHY #10	Polarization: Horizontal
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 9:42:48
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	2375.970	48.16	-7.62	40.54	74.00	-33.46	peak			
2	2375.970	36.82	-7.62	29.20	54.00	-24.80	AVG			


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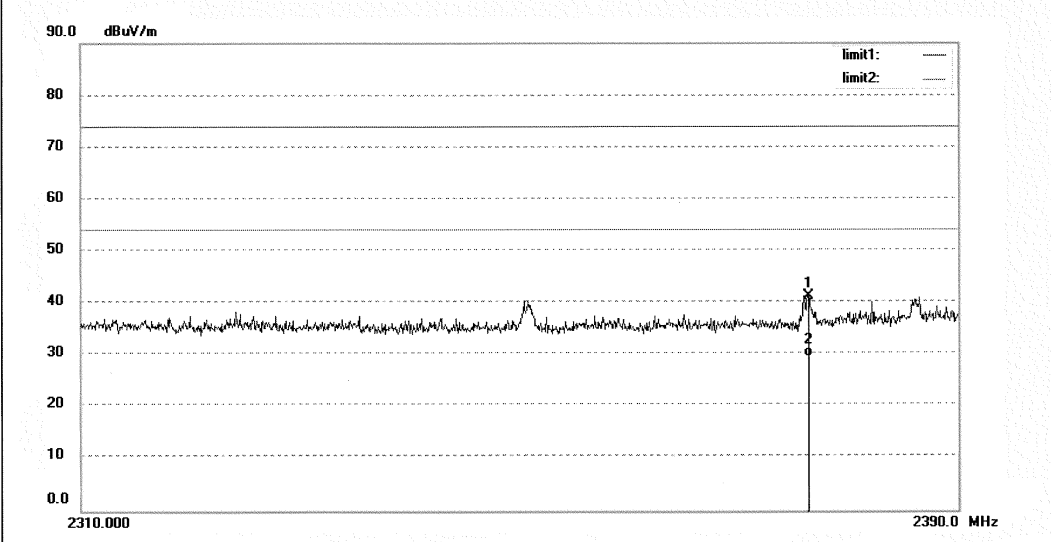
Site: 2# Chamber

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Job No.: PHY #9	Polarization: Vertical
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 9:33:44
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) Corporation	

Note:



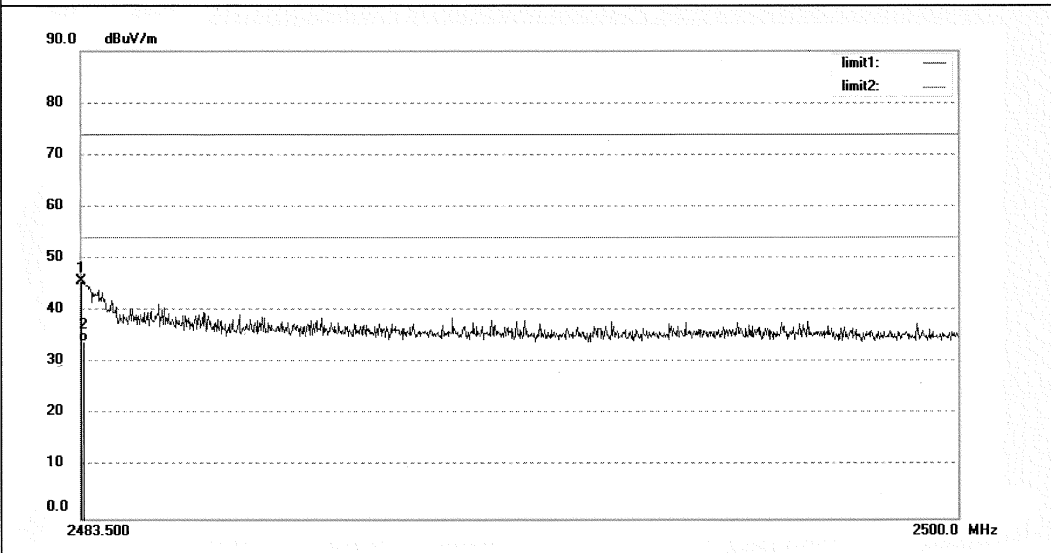
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2376.162	48.86	-7.62	41.24	74.00	-32.76	peak			
2	2376.162	37.12	-7.62	29.50	54.00	-24.50	AVG			


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Job No.: PHY #18	Polarization: Horizontal
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 11:18:57
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	53.14	-7.37	45.77	74.00	-28.23	peak			
2	2483.500	41.37	-7.37	34.00	54.00	-20.00	AVG			


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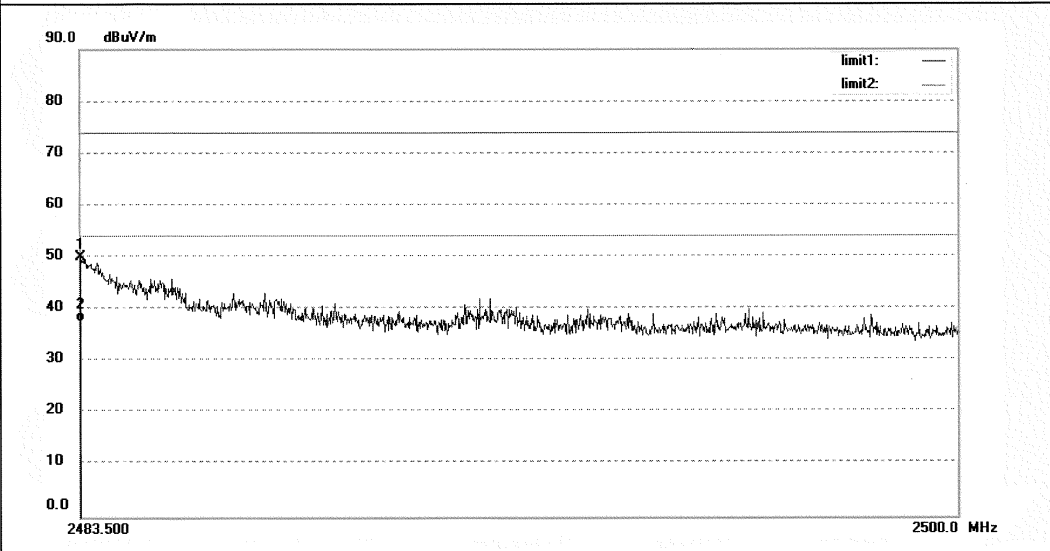
Site: 2# Chamber

Tel:+86-0755-26503290

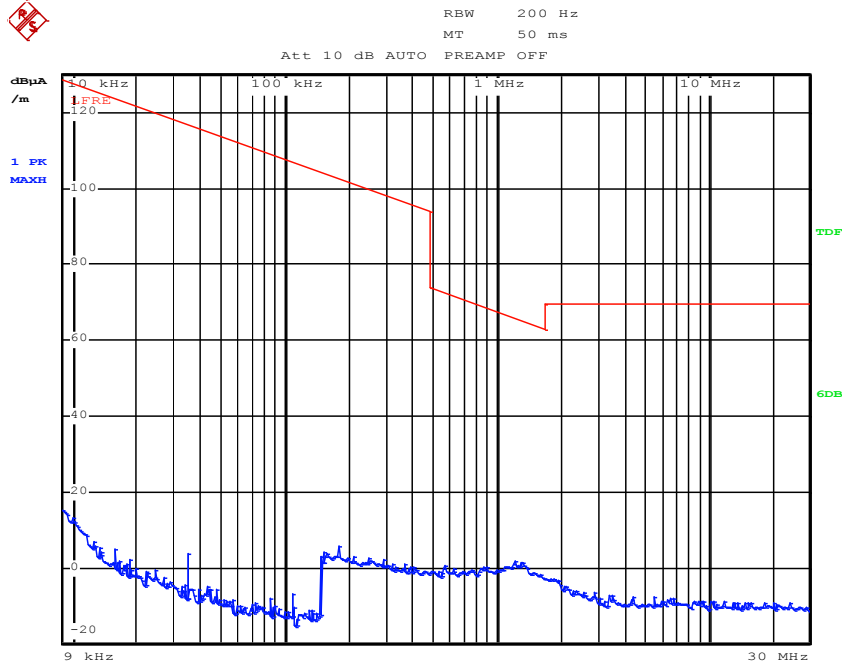
Fax:+86-0755-26503396

Job No.: PHY #17	Polarization: Vertical
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 11:09:04
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) Corporation	

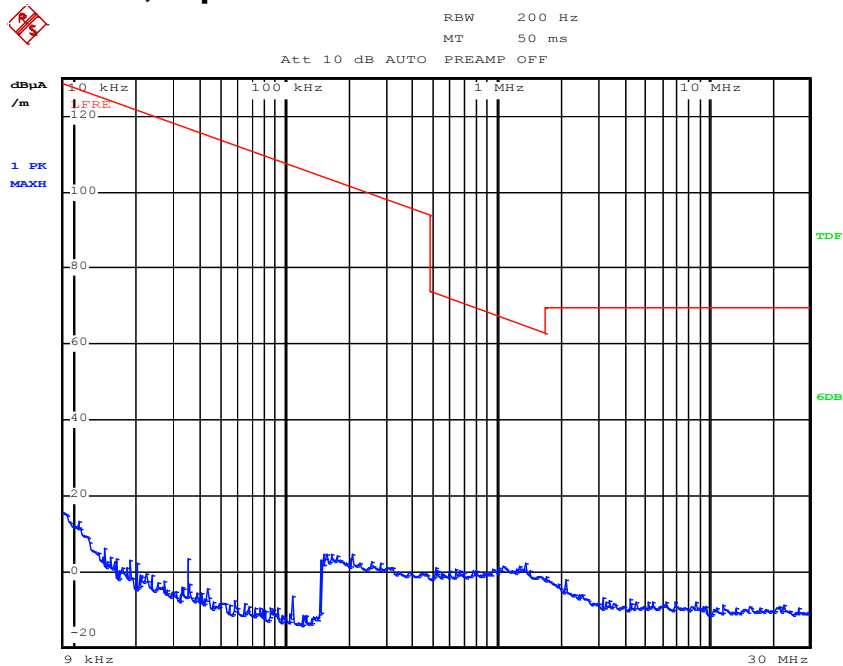
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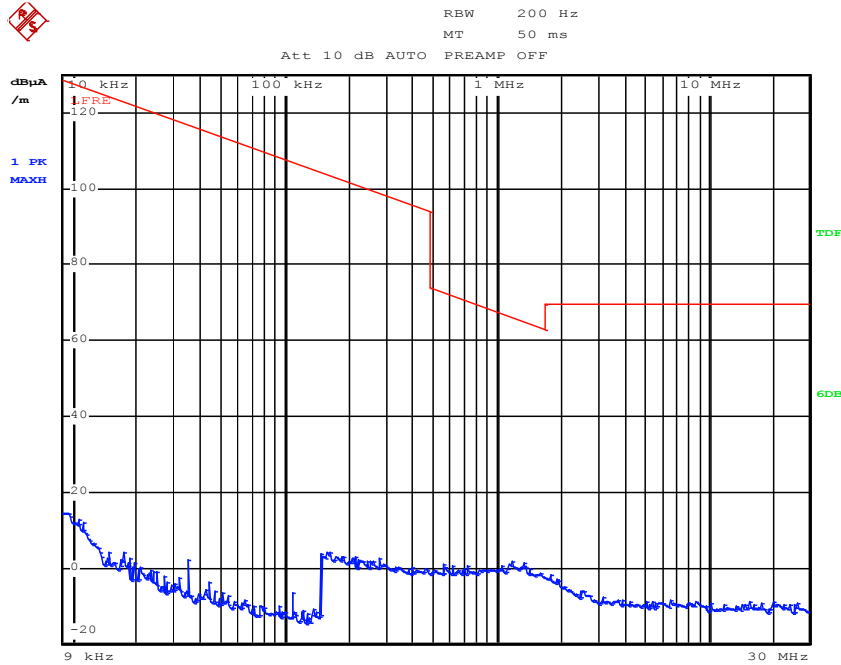
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	57.38	-7.37	50.01	74.00	-23.99	peak			
2	2483.500	45.07	-7.37	37.70	54.00	-16.30	AVG			

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


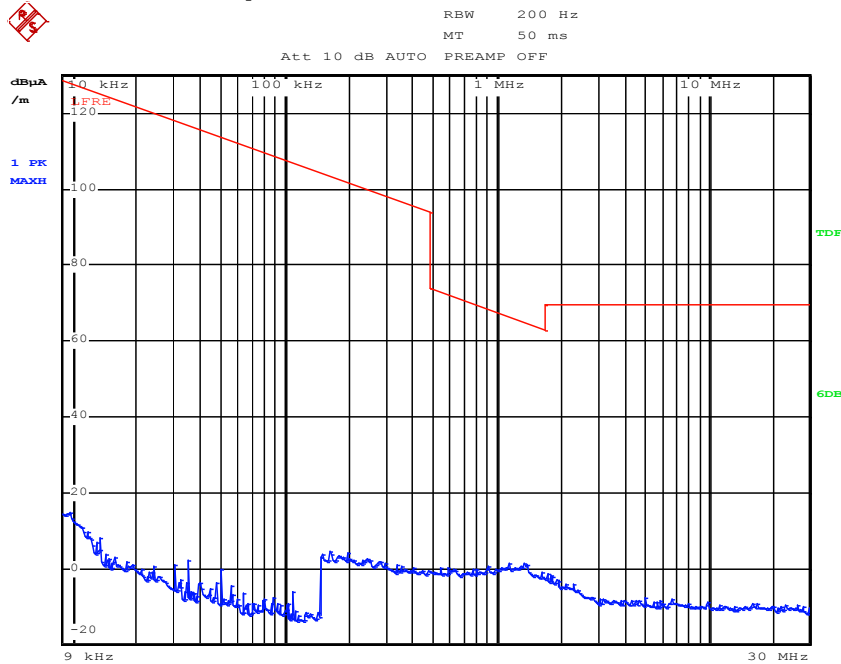
Date: 11.SEP.2013 10:03:08

**Low channel, Y polarization:**


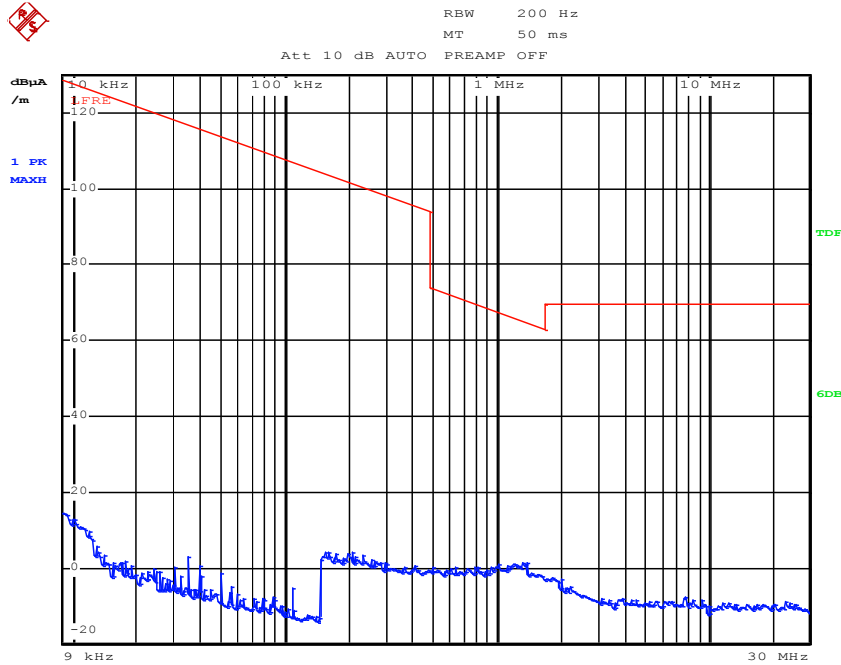
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**Low channel, Z polarization:**


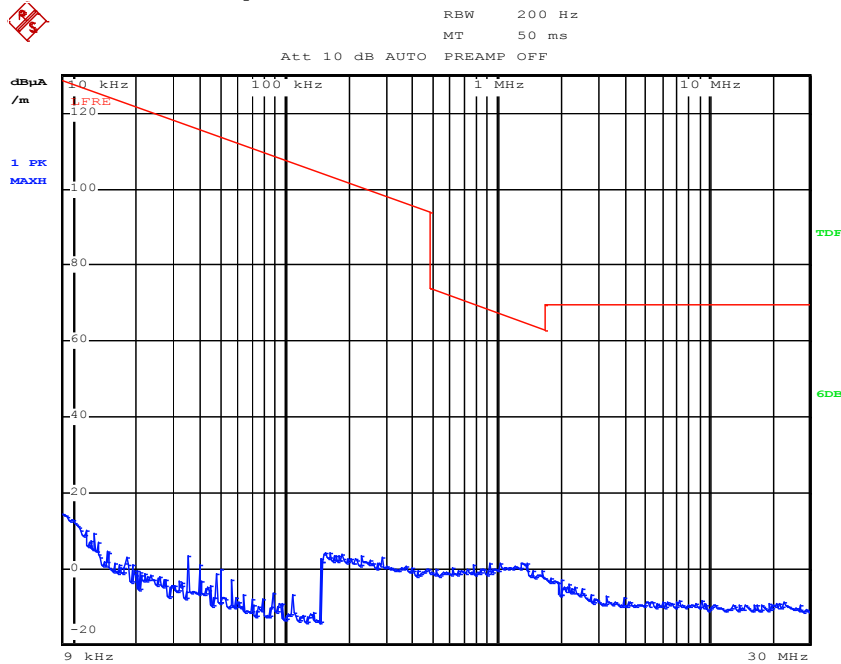
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**Middle channel, X polarization:**


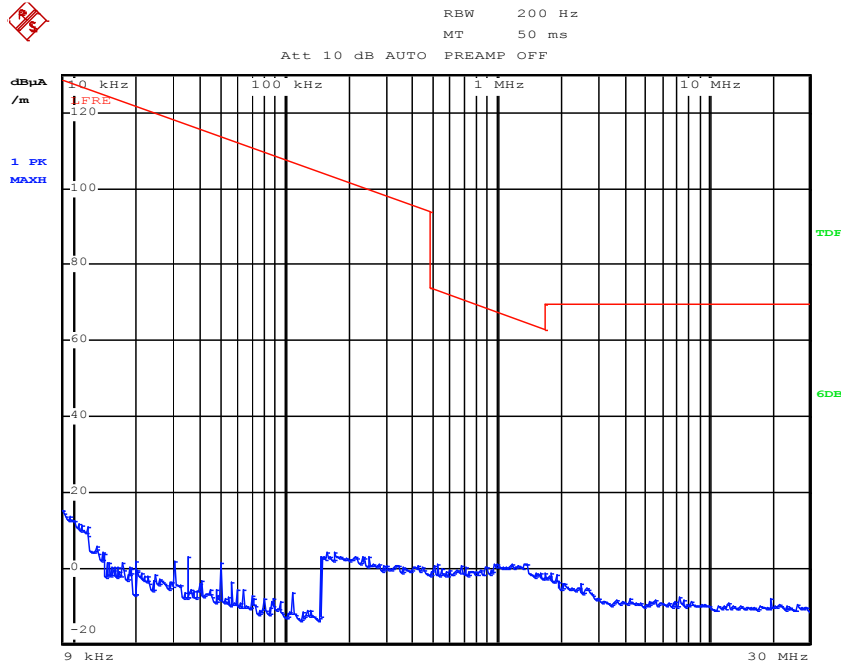
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**Middle channel, Y polarization:**


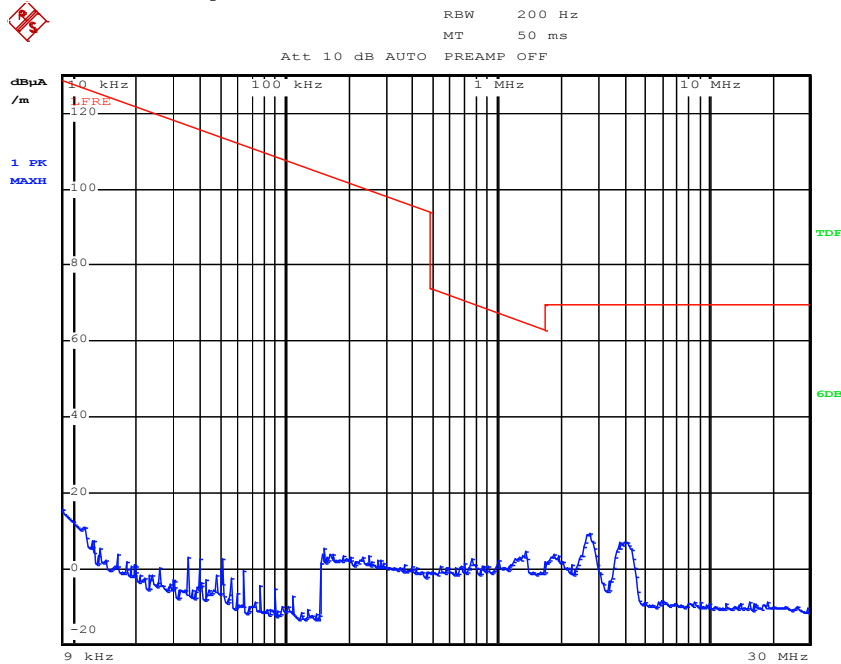
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**Middle channel, Z polarization:**


Date: 11.SEP.2013 10:12:56

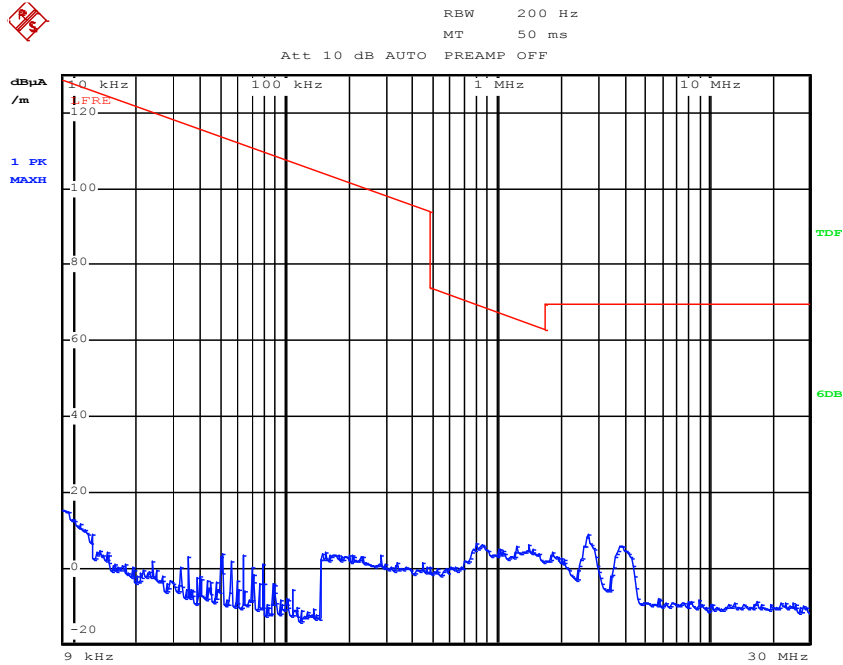
**High channel, X polarization:**


Date: 11.SEP.2013 10:14:50

**High channel, Y polarization:**


Date: 11.SEP.2013 10:16:45



**High channel, Z polarization:**


Date: 11.SEP.2013 10:18:40


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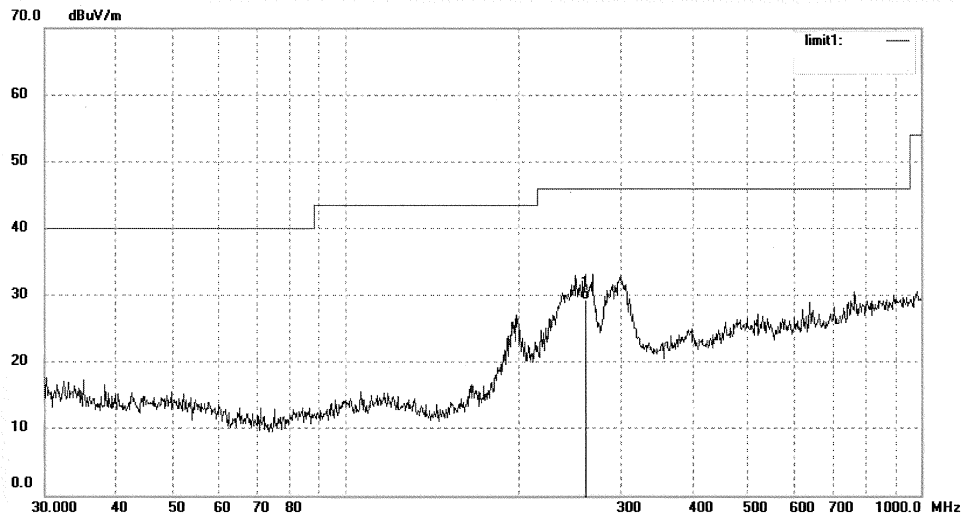
Site: 2# Chamber

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Job No.: PHY #26	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12:27:36
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	260.3566	39.94	-10.70	29.24	46.00	-16.76	QP			


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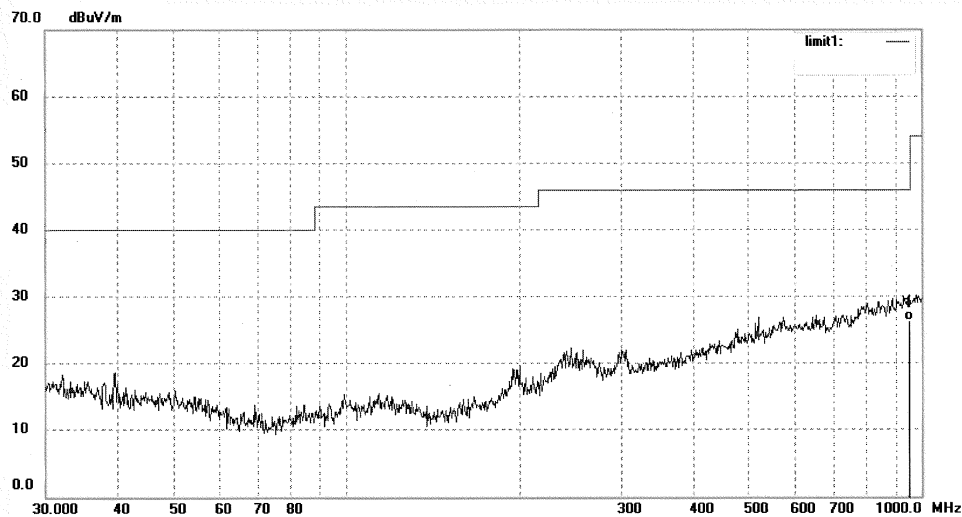
Site: 2# Chamber

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Job No.: PHY #25	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12:18:01
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	24.05	2.21	26.26	46.00	-19.74	QP			


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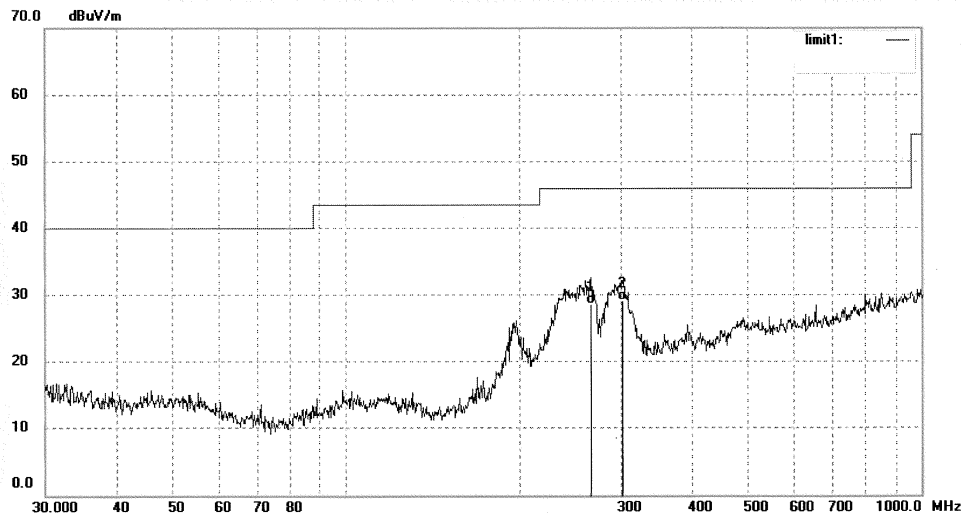
Site: 2# Chamber

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Job No.: PHY #27	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 12:36:45
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) 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	265.9035	38.98	-10.38	28.60	46.00	-17.40	QP			
2	301.7572	38.32	-9.26	29.06	46.00	-16.94	QP			