

Produkte
Products

Prüfbericht - Nr.: 17031108 001

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Test Report No.:

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Auftraggeber: Uni-Art Precise Products Ltd.
Client: 11-12/F, Yue Xiu Industrial Building 87, Hung To Road, Kwun Tong, Kowloon, Hong Kong

Gegenstand der Prüfung: 2.4GHz Digital Headphone
Test item:

Bezeichnung: DHP780B JBL WR2.4 **Serien-Nr.:** n.a.
Identification: Serial No.:

Wareneingangs-Nr.: 164002659 **Eingangsdatum:** 18.01.2013
Receipt No.: Date of receipt:

Zustand des Prüfgegenstandes bei Anlieferung: Test samples received are sufficient for testing and not damaged.
Condition of test item at delivery:

Prüfört: Accurate Technology Co., Ltd.
Testing location: F1, Bldg. A, Changyuan New Material Port
Keyuan Rd., Science & Industry Park, Nanshan
Shenzhen, P.R. China
FCC Registration No.: 752051
Test site Industry Canada No.: 5077A-2

Prüfgrundlage: FCC CFR47 Part 15: Subpart C Section 15.247
Test specification: FCC CFR47 Part 15: Subpart C Section 15.207
FCC CFR47 Part 15: Subpart C Section 15.209
FCC CFR47 Part 15: Subpart B Section 15.107
FCC CFR47 Part 15: Subpart B Section 15.109
FCC KDB Publication 447498 v05
RSS-210 Issue 8 December 2010
RSS-Gen Issue 3 December 2010
RSS-102 Issue 4 March 2010

Prüfergebnis: Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).
Test Result: The test item passed the test specification(s).

Prüflaboratorium: TÜV Rheinland (Shenzhen) Co., Ltd.
Testing Laboratory:

geprüft/ tested by:

kontrolliert/ reviewed by:

13.03.2013 Owen Tian/Project Manager

13.03.2013 Sam Lin/Technical Certifier

Datum **Name/Stellung** **Unterschrift**
Date **Name/Position** **Signature**

Datum **Name/Stellung** **Unterschrift**
Date **Name/Position** **Signature**

Sonstiges/ Other Aspects:

Abkürzungen: P(ass) = entspricht Prüfgrundlage
F(ail) = entspricht nicht Prüfgrundlage
N/A = nicht anwendbar
N/T = nicht getestet

Abbreviations: P(ass) = passed
F(ail) = failed
N/A = not applicable
N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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 RADIATED EMISSIONS***RESULT: Pass***5.1.10 CONDUCTED EMISSIONS***RESULT: Pass***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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*Page 4 of 64***9. LIST OF PHOTOGRAPHS 64**

1. General Remarks

1.1 Complementary Materials

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

Appendix 1: Test result

2. Test Sites

2.1 Test Facilities

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
Transmitter spurious emissions & Receiver spurious emissions				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-06
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-06
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-06
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-06
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2014-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-06
RF Coaxial Cable	SUHNER	N-3m	No.8	2014-01-06
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2014-01-06
RF Coaxial Cable	SUHNER	N-6m	No.10	2014-01-06
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2014-01-06
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2014-01-06
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2014-01-06
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2014-01-06
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2014-01-06
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-06
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2014-01-06
L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	2014-01-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2014-01-06
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014-01-06
RF Coaxial Cable	SUHNER	N-2m	No.3	2014-01-06
Radiated Emission				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-06
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-06
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-06
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-06
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2014-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-06
RF Coaxial Cable	SUHNER	N-3m	No.8	2014-01-06
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2014-01-06
RF Coaxial Cable	SUHNER	N-6m	No.10	2014-01-06
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2014-01-06
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2014-01-06
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2014-01-06

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	$< \pm 0.60$ dB
Radiated emission of transmitter, valid up to 12.75 GHz	$< \pm 4.42$ dB
Radiated emission of receiver, valid up to 12.75 GHz	$< \pm 4.42$ dB
Conducted Emission	$< \pm 2.23$ dB
Radiated Emission	$< \pm 4.42$ 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 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 wireless base station (transmitter) used with a headset (receiver) for audio entertainment in house or similar environment. It operates at 2.4GHz ISM frequency band. This report is evaluating for the base station (transmitter) only. Two models are identical except the model name. 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	2.4GHz Digital Headphone
Type Designation	DHP780B, JBL WR2.4
FCC ID	MVADHP781B-001T
IC ID	2579A-DHP780B
Operating Frequency band	2406MHz ~ 2472MHz
Channel separation	2MHz
Extreme Temperature Range	0~+55°C
Operation Voltage	DC 5V
Modulation	FSK
Antenna Gain	-2dBi

Table 4: Frequency hopping information

Technical Specification	Description
Hopping Sequence	Channel frequency: 2406, 2408, 2410, 2412, 2414, 2416, 2418, 2420, 2422, 2424, 2426, 2428, 2430, 2432, 2438, 2440, 2444, 2446, 2448, 2450, 2452, 2454, 2456, 2458, 2460, 2462, 2464, 2466, 2468, 2470, 2472MHz; Sequence exsample 1: 2406, 2420, 2422, 2424, 2426, 2428, 2444, 2446, 2448, 2450, 2452, 2456, 2468, 2470, 2472MHz; Sequence exsample 2: 2406, 2408, 2410, 2412, 2414, 2416, 2418, 2420, 2422, 2424, 2426, 2428, 2430, 2438, 2446MHz; Sequence exsample 3: 2432, 2440, 2448, 2450, 2452, 2454, 2458, 2460, 2462, 2464, 2466, 2468, 2470, 2472MHz; Sequence exsample 4: 2406, 2408, 2410, 2412, 2414, 2416, 2418, 2426, 2454, 2462, 2464, 2466, 2468, 2470, 2472MHz

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting mode
- B. Charging for receiver
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

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

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003. According to clause 3.1, all tests were applied on model DHP780B only.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC Adapter	Dongguan Yinli Electronics Co., Ltd.	YLS0051A-T050055	Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5V, 550mA

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Mains of adapter	2 cores, non-shielded port, 3m	AC Power Input
DC power port of EUT	2 cores, non-shielded port, 3m	DC Power Input
Audio 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

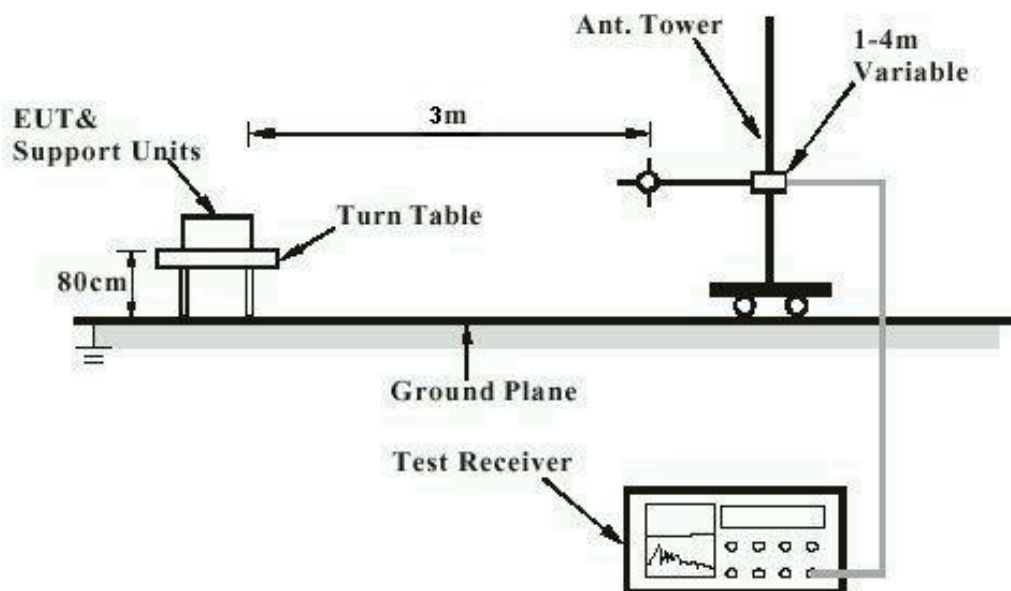


Diagram of Measurement Equipment Configuration for Conduction Measurement

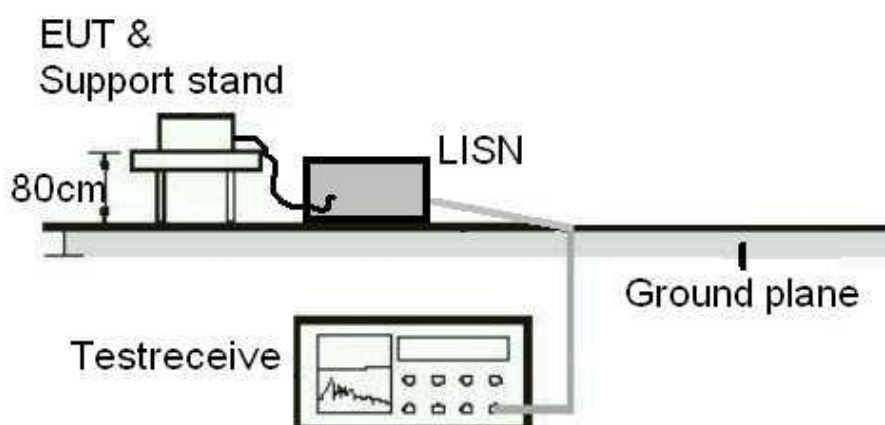
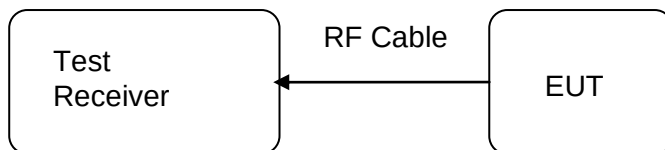


Diagram of Measurement Equipment Configuration for Transmitter Measurement



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, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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5.1.2 Peak Output Power**RESULT:****Pass**

Test date : 2013-02-01
Test standard : FCC Part 15.247(b)(1)
RSS-210 A8.4(2)
Basic standard : ANSI C63.4: 2003
Limit : 125mW
Kind of test site : Shielded room

Test setup

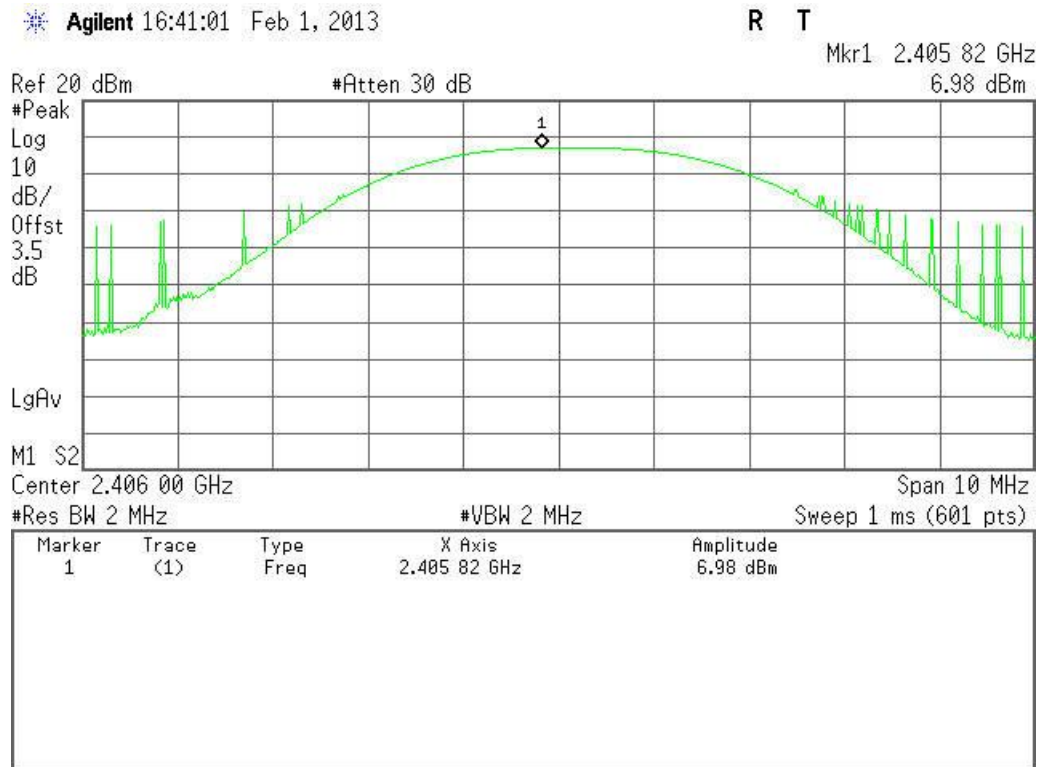
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 5: Test result of Peak Output Power

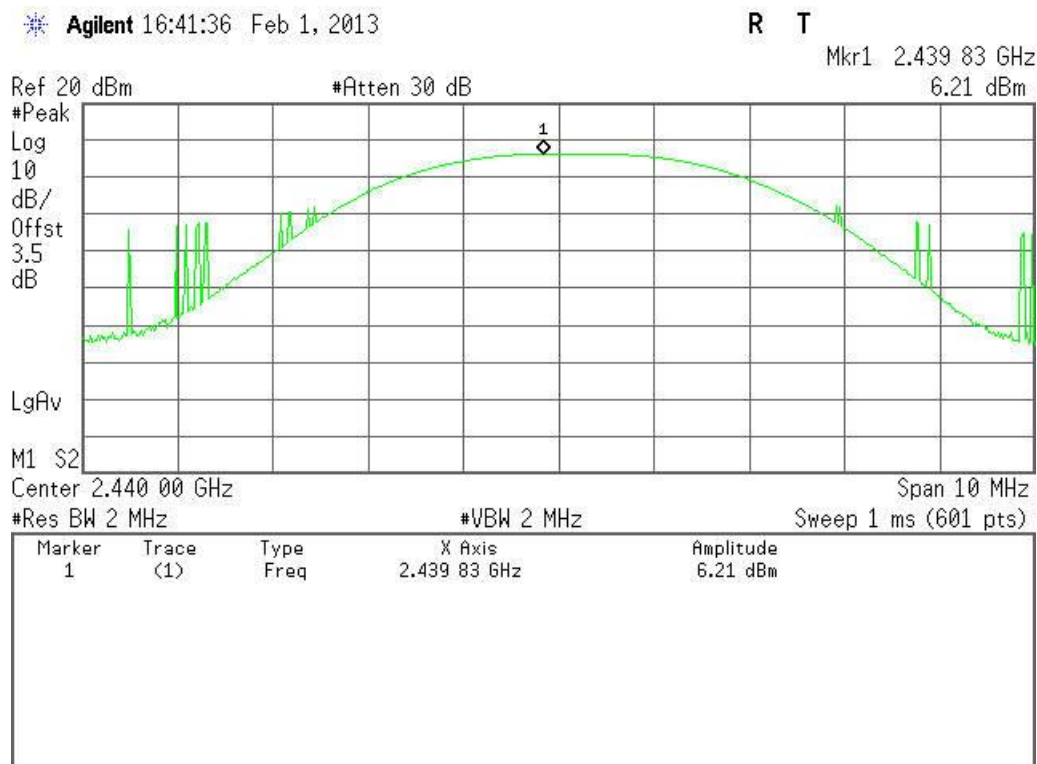
Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2406	6.98	21
Middle Channel	2440	6.21	21
High Channel	2472	6.92	21

Test Plot of Peak Output Power

Low Channel



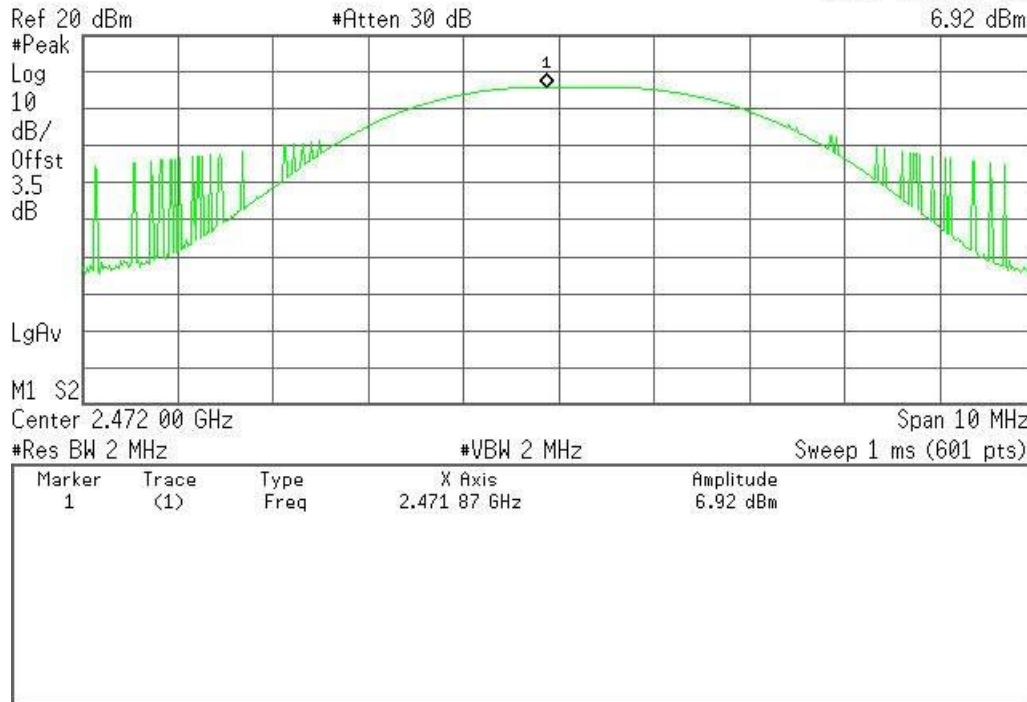
Middle Channel



High Channel

* Agilent 16:40:21 Feb 1, 2013

R T

 Mkr1 2.471 87 GHz
 6.92 dBm


5.1.3 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2013-01-18
Test standard : FCC Part 15.247(a)(1)
RSS-210 A8.1(a)
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

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

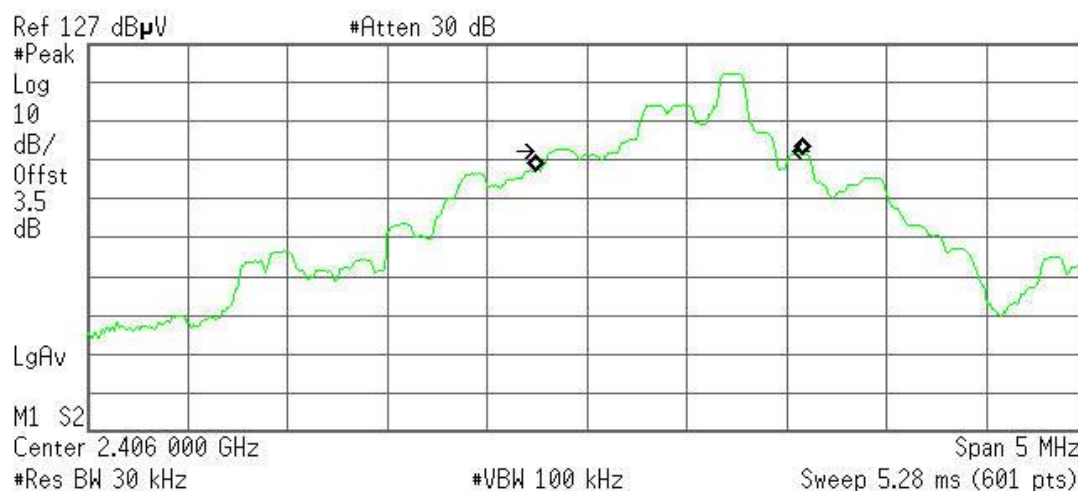
Table 6: Test result of 20dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2406	1.122	1.3448
Mid Channel	2440	1.215	1.2795
High Channel	2472	1.084	1.3781

Test Plot of 20dB & 99% Bandwidth

Low Channel

 **Agilent** 15:38:49 Jan 18, 2013

R T


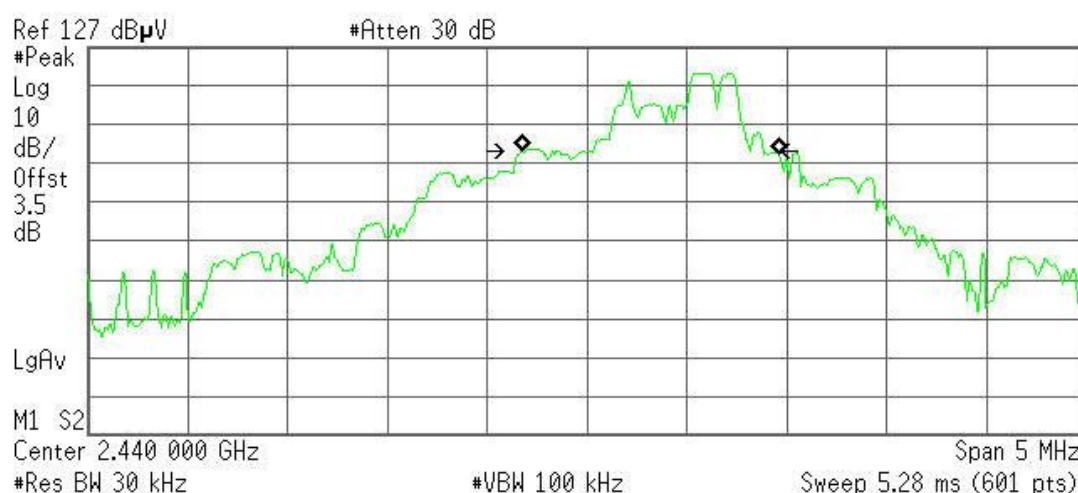
Occupied Bandwidth
1.3448 MHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error 414.485 kHz
x dB Bandwidth 1.122 MHz

Middle Channel

 **Agilent** 15:39:16 Jan 18, 2013

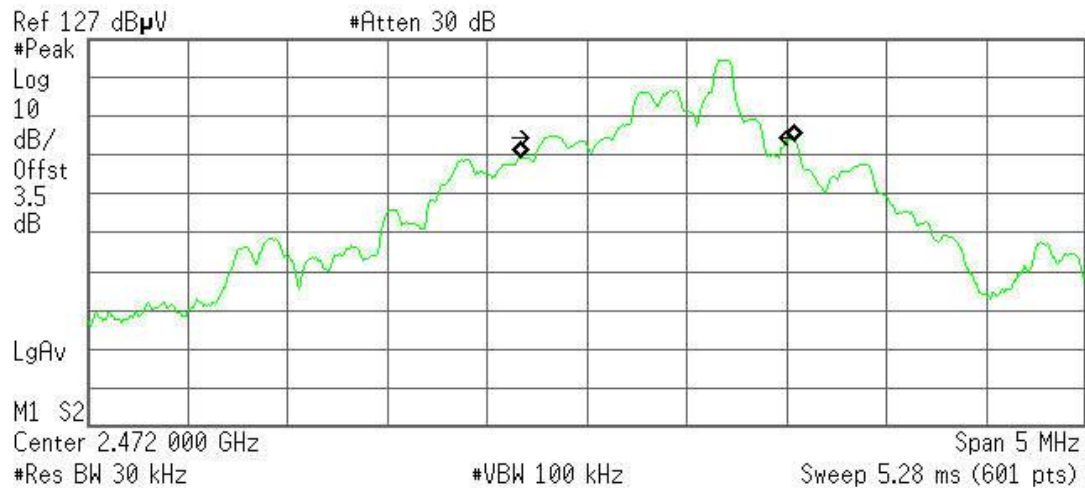
R T


Occupied Bandwidth
1.2795 MHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error 315.565 kHz
x dB Bandwidth 1.215 MHz

High Channel
 **Agilent** 15:39:51 Jan 18, 2013

R T

Occupied Bandwidth
1.3781 MHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error 353.736 kHz
x dB Bandwidth 1.084 MHz

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

Date of testing : 2013-01-18
Test standard : FCC part 15.247(d)
RSS-210 A8.5
Basic standard : ANSI C63.4: 2003
Limit : 20dB (below that in the 100kHz bandwidth within
the band that contains the highest level of the
desired power);
Kind of test site : Shield room

Test setup

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

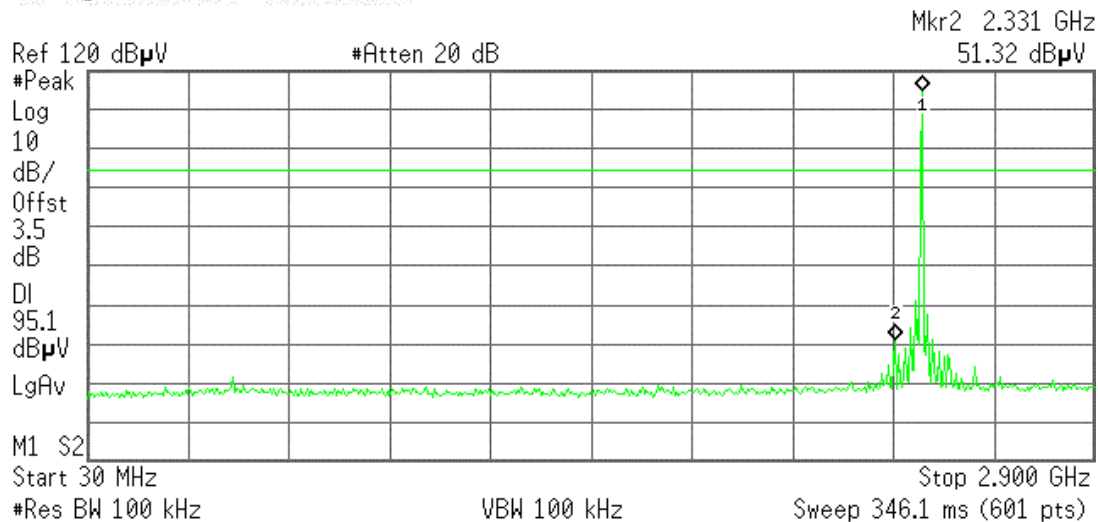
All emissions are more than 20dB below fundamental, details refer to following test plot,
and compliance is achieved as well.

Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth

Low Channel

Agilent 15:36:38 Jan 18, 2013

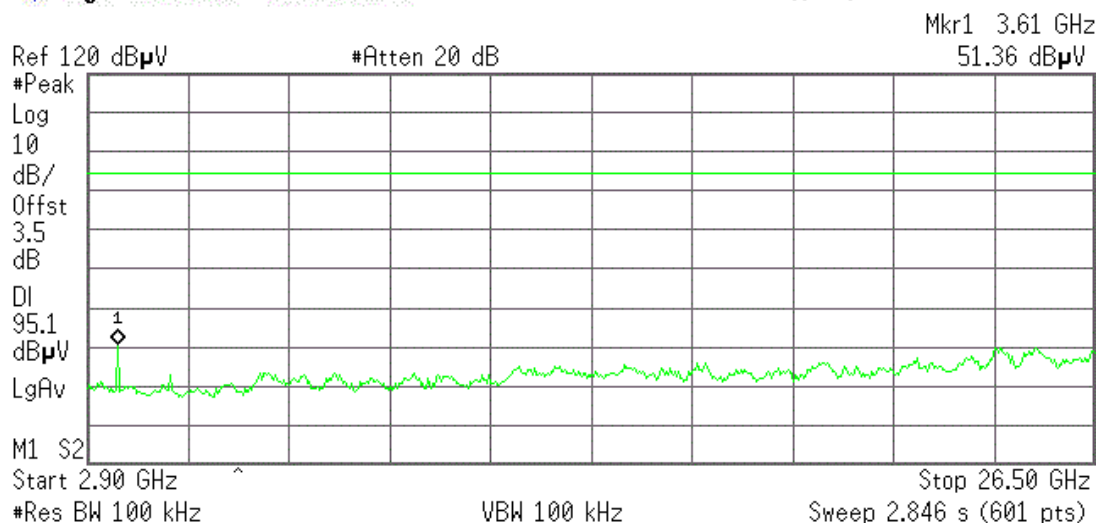
R T



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.407 GHz	115.13 dB μ V
2	(1)	Freq	2.331 GHz	51.32 dB μ V

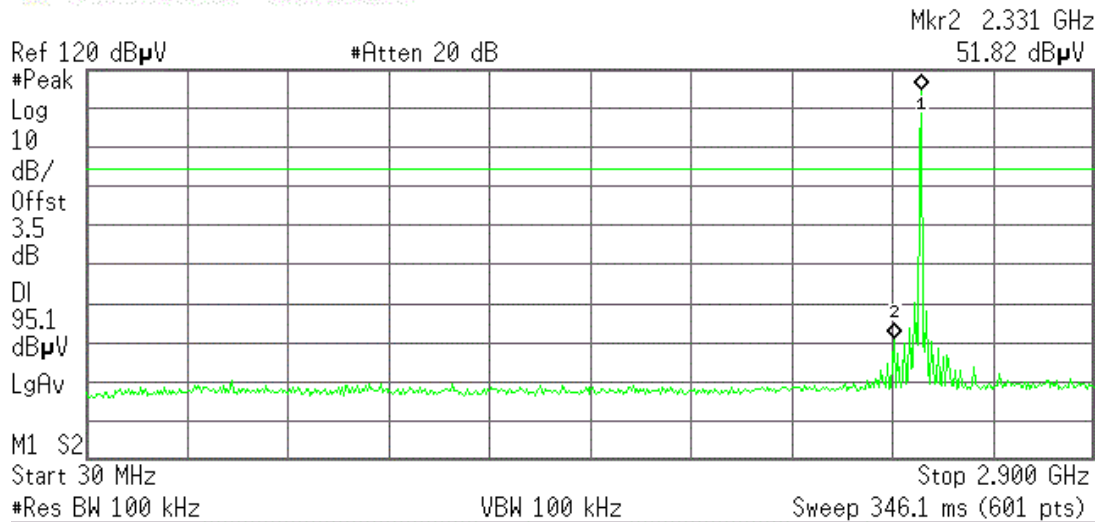
Agilent 15:37:03 Jan 18, 2013

R T



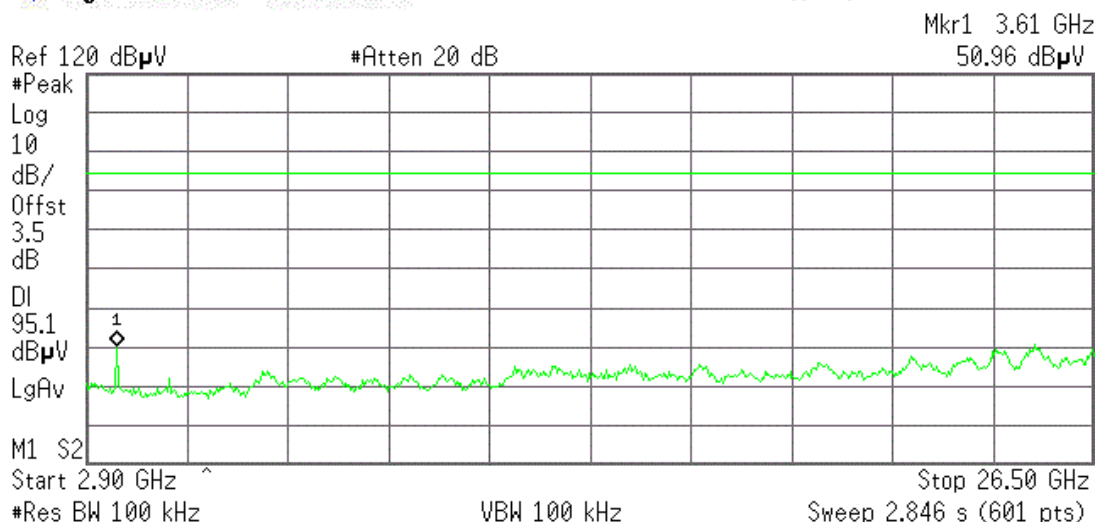
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.61 GHz	51.36 dB μ V

Middle Channel
 **Agilent** 15:34:26 Jan 18, 2013

R T


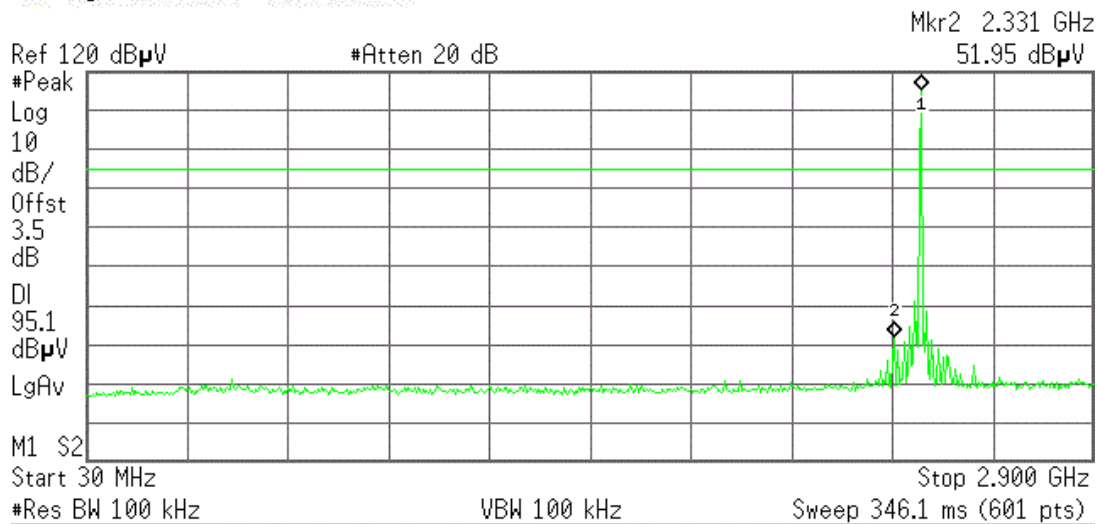
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.407 GHz	115.12 dB μ V
2	(1)	Freq	2.331 GHz	51.82 dB μ V

 **Agilent** 15:35:03 Jan 18, 2013

R T


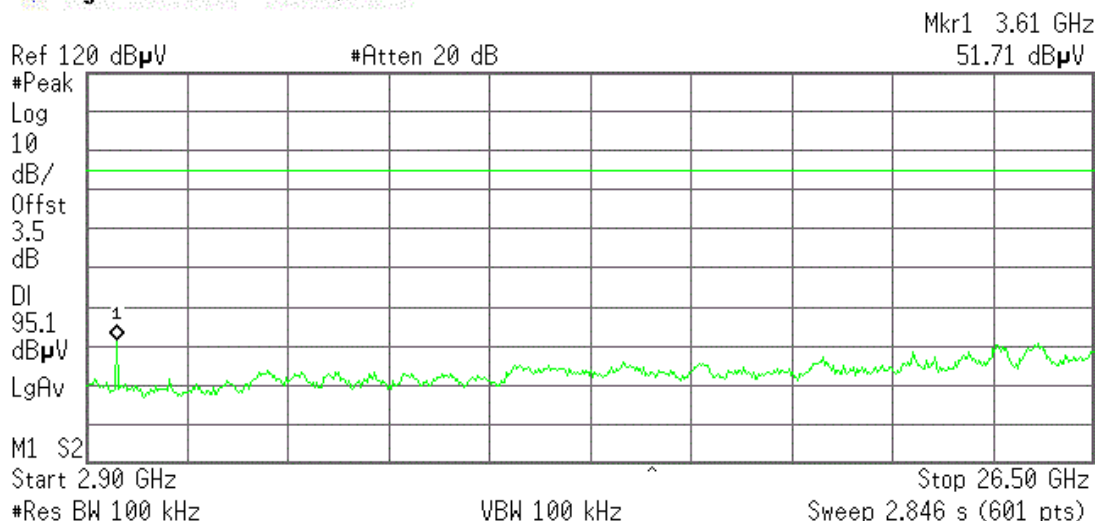
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.61 GHz	50.96 dB μ V

High Channel
 **Agilent** 15:32:36 Jan 18, 2013

R T


Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.407 GHz	115.11 dB μ V
2	(1)	Freq	2.331 GHz	51.95 dB μ V

 **Agilent** 15:33:09 Jan 18, 2013

R T


Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.61 GHz	51.71 dB μ V

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5.1.5 Spurious Emission**RESULT:****Pass**

Date of testing : 2013-03-05
Test standard : FCC part 15.247(d)
RSS-210 Clause 2.2
Basic standard : ANSI C63.4: 2003
Limits : FCC part 15.209(a)
Table 2 of RSS-210
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

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

For details refer to following test plot.

Test Plot of Radiated emissions



深圳康来士标准测试技术有限公司
Compliance Certification Services (ShenZhen) Inc.

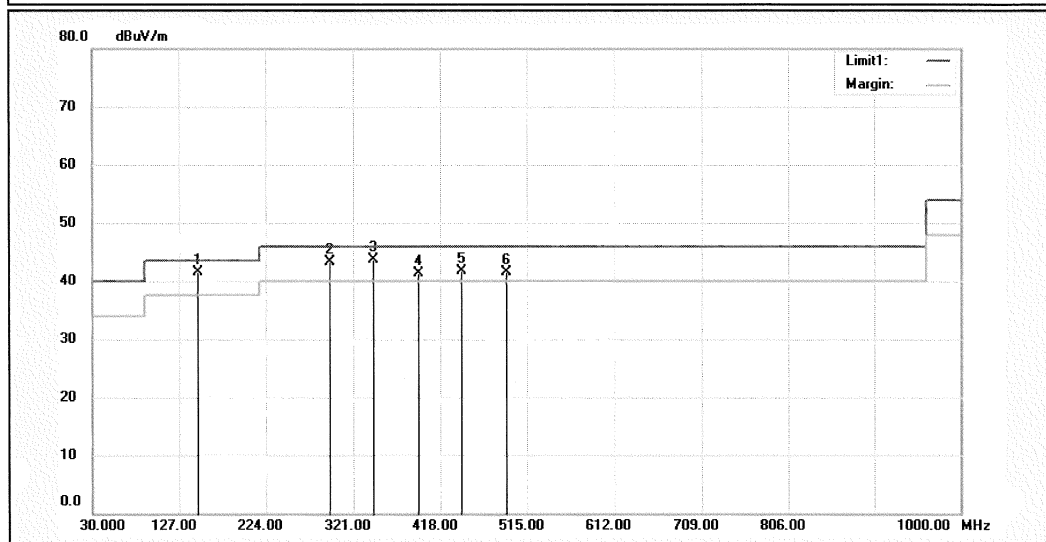
地址：广东省深圳市观澜镇环观南路18号锦可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Horizontal
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-1-28 Time: 16:19:52
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2472	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	148.0166	60.29	-18.81	41.48	43.50	-2.02	---	---	peak
2!	295.1333	62.14	-18.76	43.38	46.00	-2.62	---	---	peak
3!	343.6333	60.84	-17.23	43.61	46.00	-2.39	---	---	peak
4!	393.7500	57.59	-16.33	41.26	46.00	-4.74	---	---	peak
5!	442.2500	56.86	-15.12	41.74	46.00	-4.26	---	---	peak
6!	492.3666	56.28	-14.69	41.59	46.00	-4.41	---	---	peak



深圳康来士标准测试技术有限公司

Compliance Certification Services (ShenZhen) Inc.

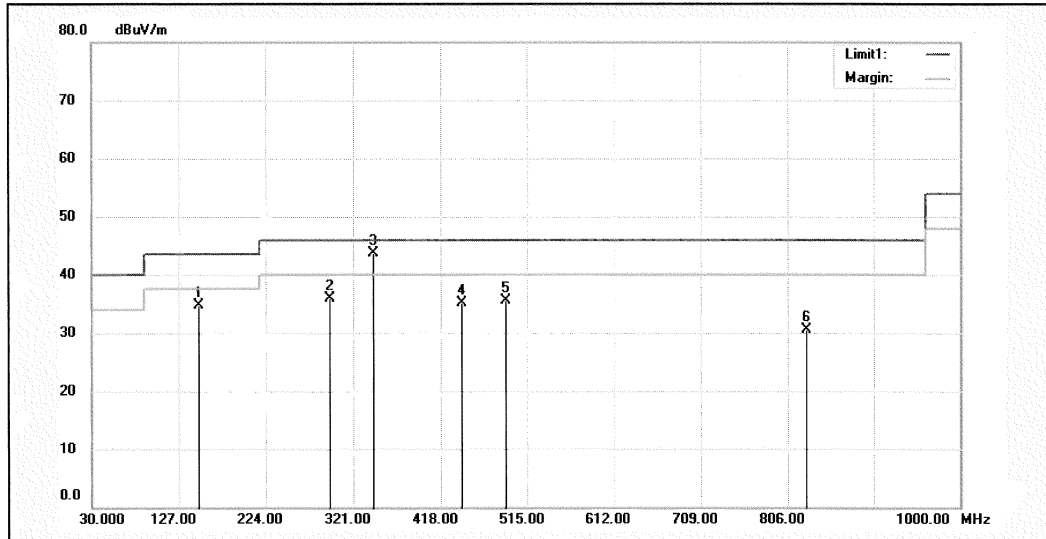
地址：广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Vertical
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-1-28 Time: 16:22:29
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2472	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	148.0167	53.48	-18.81	34.67	43.50	-8.83	---	---	peak
2	295.1333	54.70	-18.76	35.94	46.00	-10.06	---	---	peak
3*	343.6333	60.90	-17.23	43.67	46.00	-2.33	---	---	peak
4	442.2500	50.22	-15.12	35.10	46.00	-10.90	---	---	peak
5	490.7500	50.30	-14.83	35.47	46.00	-10.53	---	---	peak
6	827.0167	41.09	-10.55	30.54	46.00	-15.46	---	---	peak



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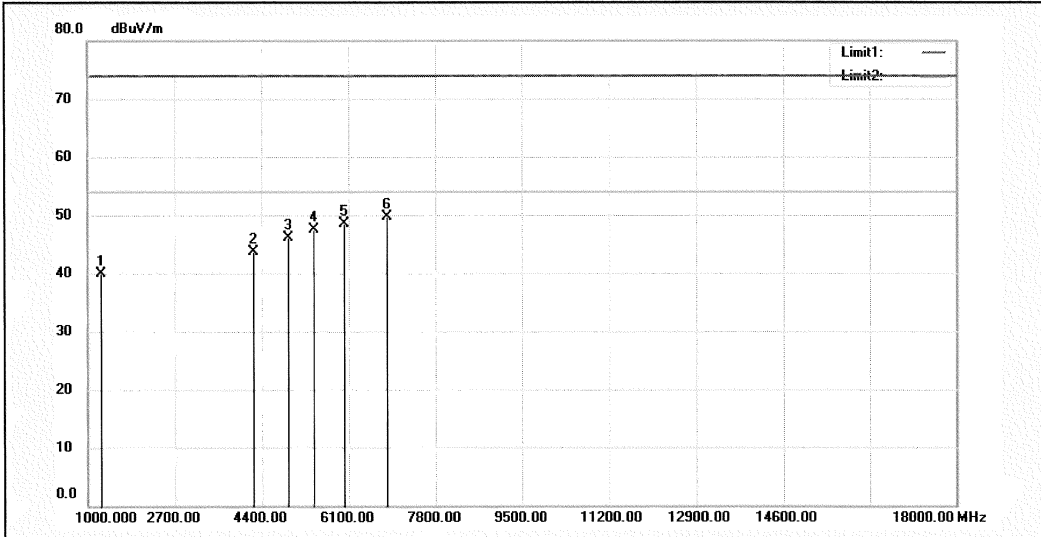
地址：广东省深圳市宝安区观澜镇环境南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564907

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Horizontal
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-2 Time: 16:08:00
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2406	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1255.0000	48.38	-8.48	39.90	74.00	-34.10	---	---	peak
2	4258.3333	45.06	-1.36	43.70	74.00	-30.30	---	---	peak
3	4938.3333	45.09	1.04	46.13	74.00	-27.87	---	---	peak
4	5391.6667	45.92	1.52	47.44	74.00	-26.56	---	---	peak
5	6015.0000	45.33	3.13	48.46	74.00	-25.54	---	---	peak
6*	6836.6667	44.15	5.62	49.77	74.00	-24.23	---	---	peak



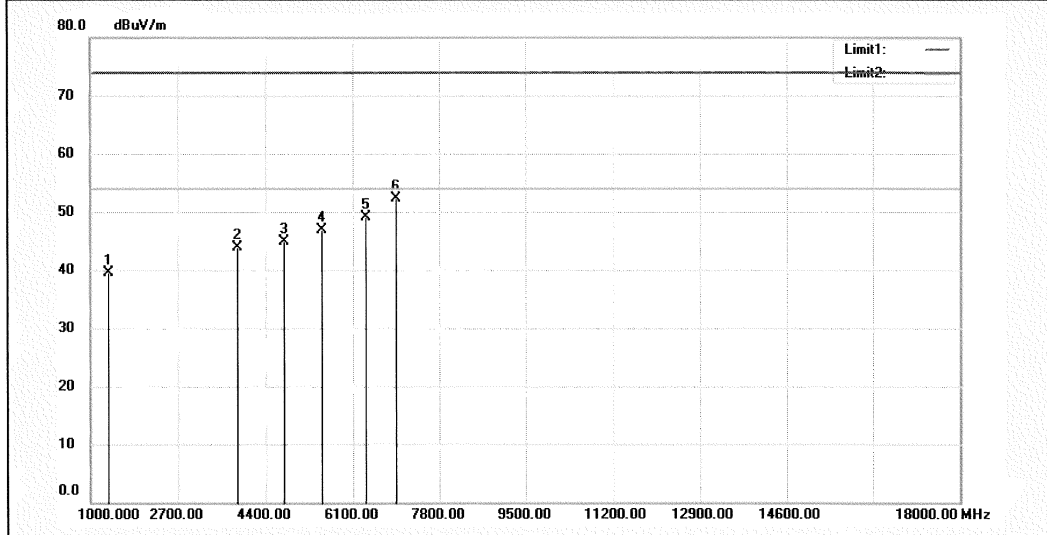
深圳康来士标准测试技术有限公司

Compliance Certification Services (ShenZhen) Inc.

地址: 广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋 TEL: 0755-28055000 FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Vertical
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-2 Time: 16:05:10
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2406	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1340.0000	47.54	-8.10	39.44	74.00	-34.56	---	---	peak
2	3861.6667	46.50	-2.50	44.00	74.00	-30.00	---	---	peak
3	4768.3333	44.61	0.27	44.88	74.00	-29.12	---	---	peak
4	5505.0000	45.13	1.74	46.87	74.00	-27.13	---	---	peak
5	6326.6667	45.03	4.05	49.08	74.00	-24.92	---	---	peak
6*	6921.6667	46.35	5.95	52.30	74.00	-21.70	---	---	peak



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Compliance Certification Services (ShenZhen) Inc.

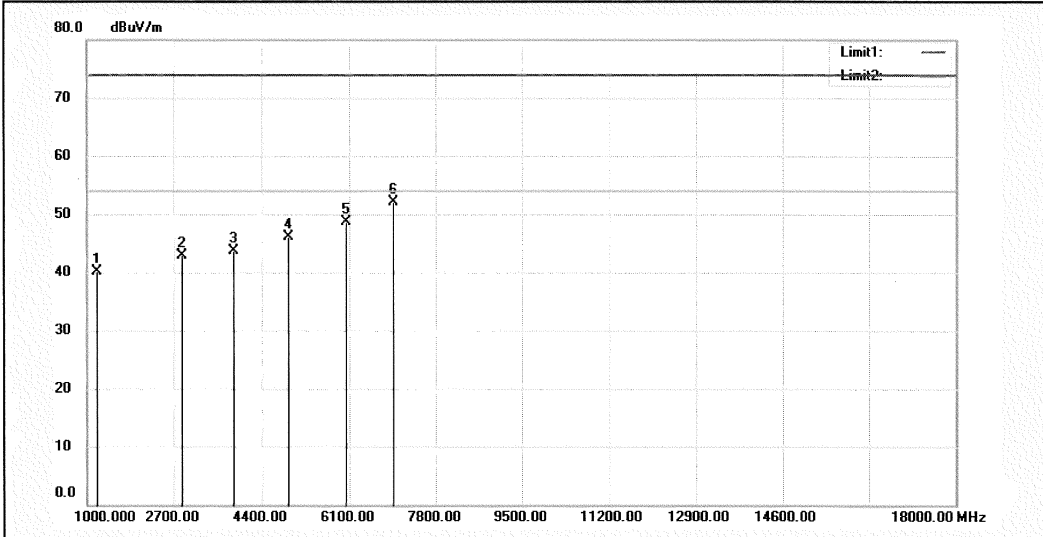
地址：广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564907

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Horizontal
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-2 Time: 16:12:55
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2440	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1198.3333	48.86	-8.74	40.12	74.00	-33.88	---	---	peak
2	2870.0000	47.60	-4.76	42.84	74.00	-31.16	---	---	peak
3	3833.3333	46.12	-2.50	43.62	74.00	-30.38	---	---	peak
4	4938.3333	45.04	1.04	46.08	74.00	-27.92	---	---	peak
5	6043.3333	45.41	3.22	48.63	74.00	-25.37	---	---	peak
6*	6978.3333	45.93	6.24	52.17	74.00	-21.83	---	---	peak

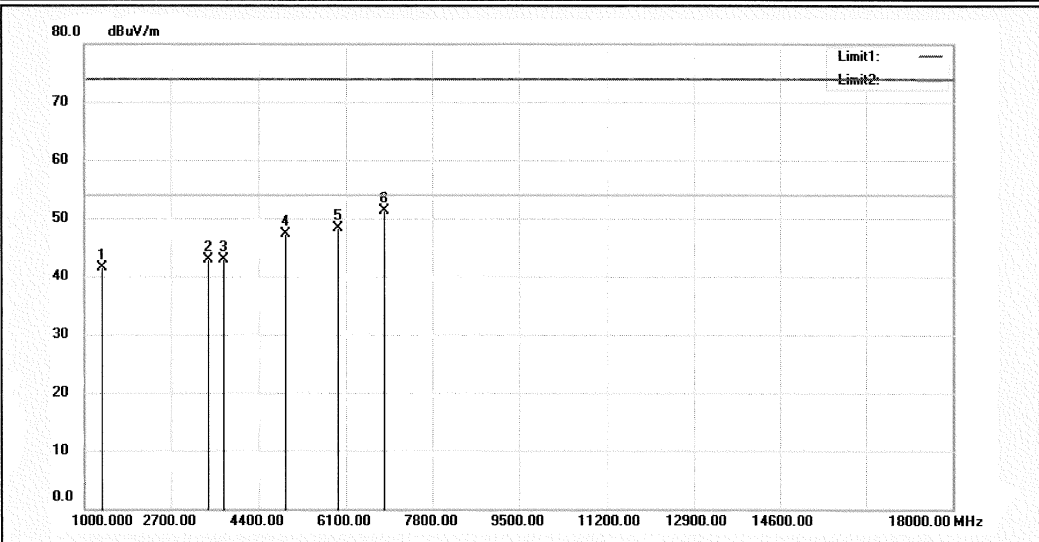


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Compliance Certification Services (ShenZhen) Inc.

地址：广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋 TEL: 0755-28055000 FAX: 0755-29564902
ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Vertical
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-2 Time: 16:11:54
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2440	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1311.6667	49.79	-8.23	41.56	74.00	-32.44	---	---	peak
2	3408.3333	46.78	-3.96	42.82	74.00	-31.18	---	---	peak
3	3720.0000	45.66	-2.70	42.96	74.00	-31.04	---	---	peak
4	4938.3333	46.20	1.04	47.24	74.00	-26.76	---	---	peak
5	5958.3333	45.20	3.03	48.23	74.00	-25.77	---	---	peak
6*	6865.0000	45.59	5.72	51.31	74.00	-22.69	---	---	peak



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Compliance Certification Services (ShenZhen) Inc.

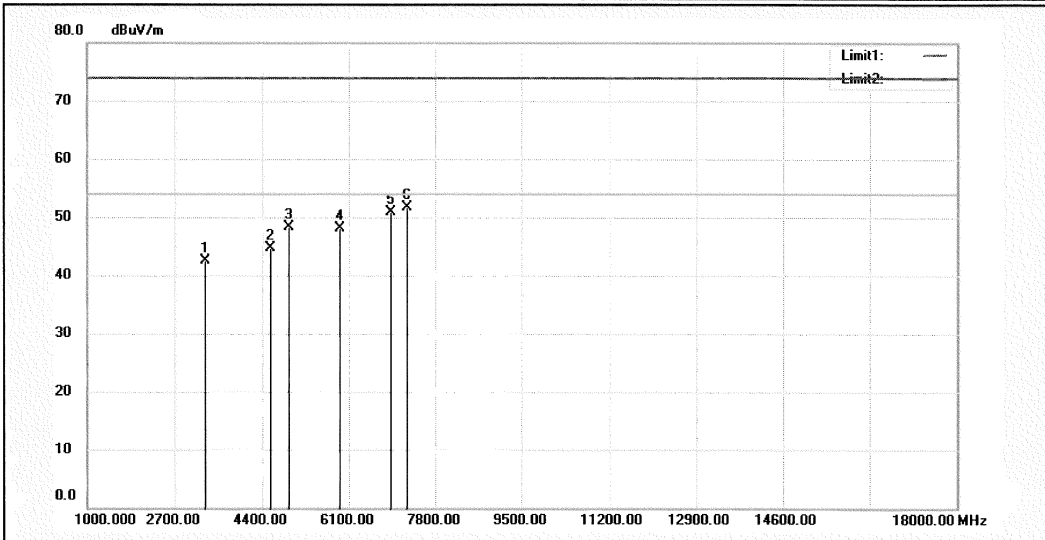
地址：广东省深圳市观澜镇环观南路18号能可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Horizontal
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-4 Time: 11:37:41
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2472	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	3295.0000	46.62	-4.05	42.57	74.00	-31.43	---	---	peak
2	4570.0000	45.16	-0.51	44.65	74.00	-29.35	---	---	peak
3	4938.3333	47.24	1.04	48.28	74.00	-25.72	---	---	peak
4	5930.0000	45.21	2.98	48.19	74.00	-25.81	---	---	peak
5	6921.6665	45.04	5.95	50.99	74.00	-23.01	---	---	peak
6*	7233.3333	44.27	7.40	51.67	74.00	-22.33	---	---	peak



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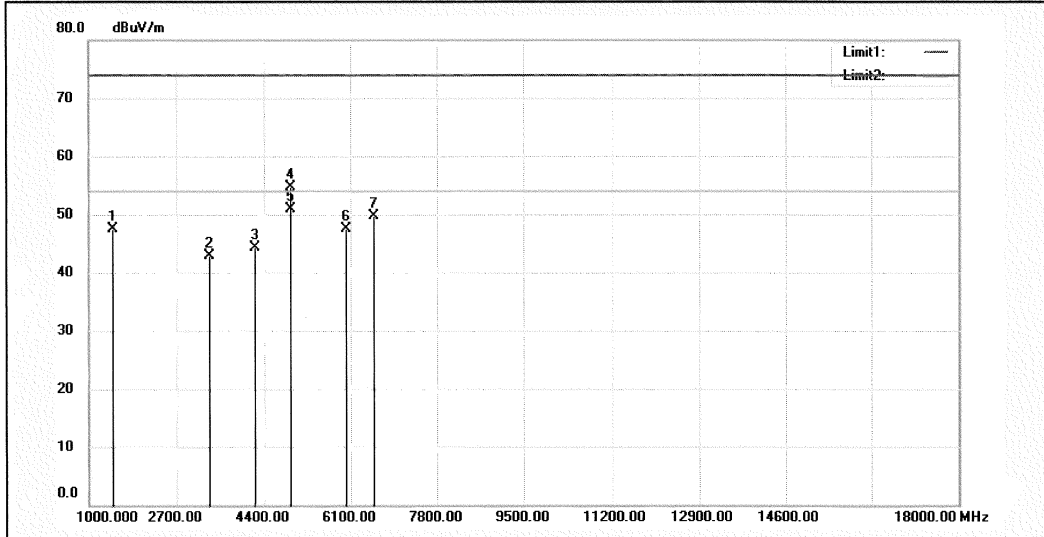
地址：广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564907

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Vertical
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-4 Time: 11:39:57
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2472	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1453.3333	55.55	-8.06	47.49	74.00	-26.51	---	---	peak
2	3351.6667	46.90	-4.02	42.88	74.00	-31.12	---	---	peak
3	4201.6667	45.94	-1.57	44.37	74.00	-29.63	---	---	peak
4	4938.3333	53.67	1.04	54.71	74.00	-19.29	---	---	peak
5*	4938.3333	49.78	1.04	50.82	54.00	-3.18	---	---	AVG
6	6015.0000	44.40	3.13	47.53	74.00	-26.47	---	---	peak
7	6553.3333	44.92	4.69	49.61	74.00	-24.39	---	---	peak



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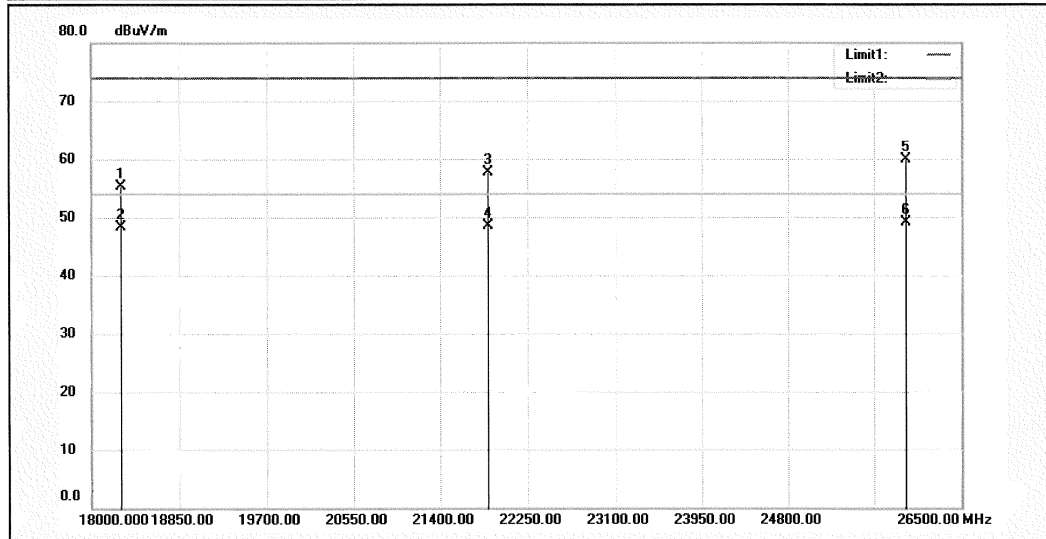
地址：广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Horizontal
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-3-5 Time: 11:43:31
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2472	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	18283.3332	39.13	16.11	55.24	74.00	-18.76	---	---	peak
2	18283.3332	32.14	16.11	48.25	54.00	-5.75	---	---	AVG
3	21867.5000	39.59	18.03	57.62	74.00	-16.38	---	---	peak
4	21867.5000	30.48	18.03	48.51	54.00	-5.49	---	---	AVG
5	25961.6667	39.02	20.82	59.84	74.00	-14.16	---	---	peak
6*	25961.6667	28.34	20.82	49.16	54.00	-4.84	---	---	AVG



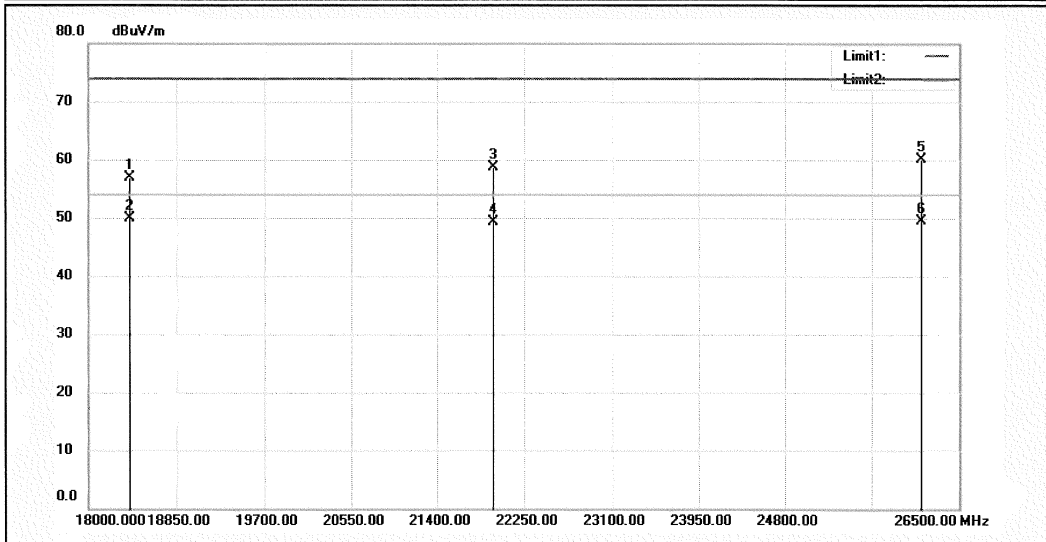
深圳康来士标准测试技术有限公司

Compliance Certification Services (ShenZhen) Inc.

地址: 广东省深圳市观澜镇环观南路18号能可达物流园10-1栋 TEL: 0755-28055000 FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Vertical
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-3-5 Time: 11:44:10
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: TX 2472	

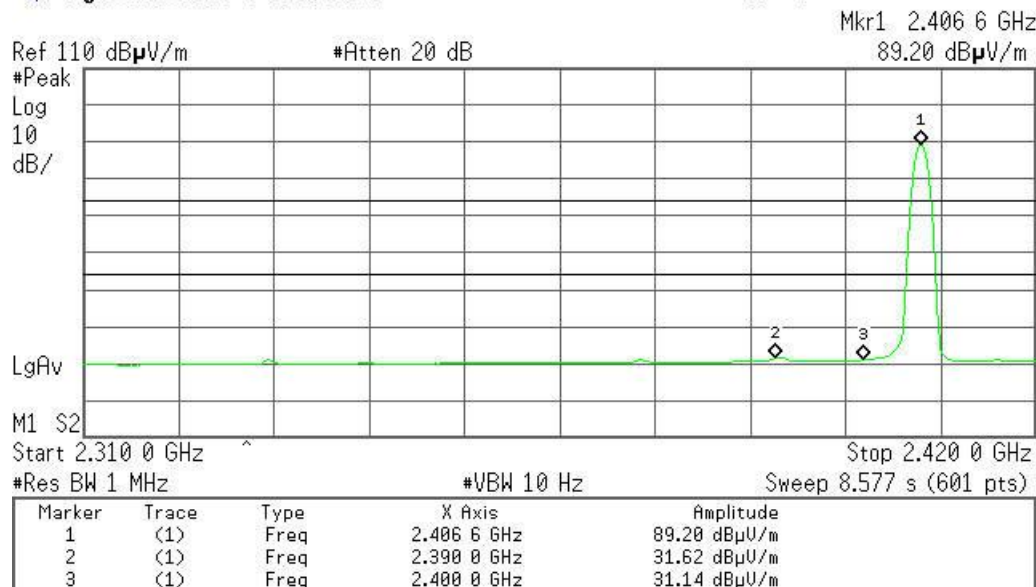


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	18396.6667	40.56	16.26	56.82	74.00	-17.18	---	---	peak
2*	18396.6667	33.60	16.26	49.86	54.00	-4.14	---	---	AVG
3	21952.5000	40.62	18.05	58.67	74.00	-15.33	---	---	peak
4	21952.5000	31.21	18.05	49.26	54.00	-4.74	---	---	AVG
5	26131.6667	38.76	21.42	60.18	74.00	-13.82	---	---	peak
6	26131.6667	28.13	21.42	49.55	54.00	-4.45	---	---	AVG

Test Plot of Frequency Band Edge

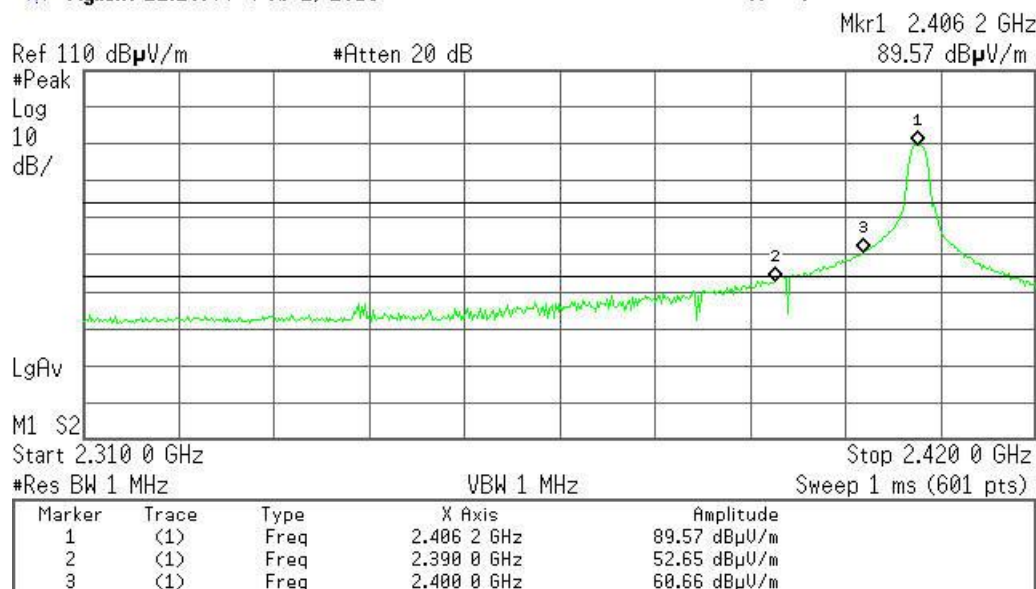
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R T



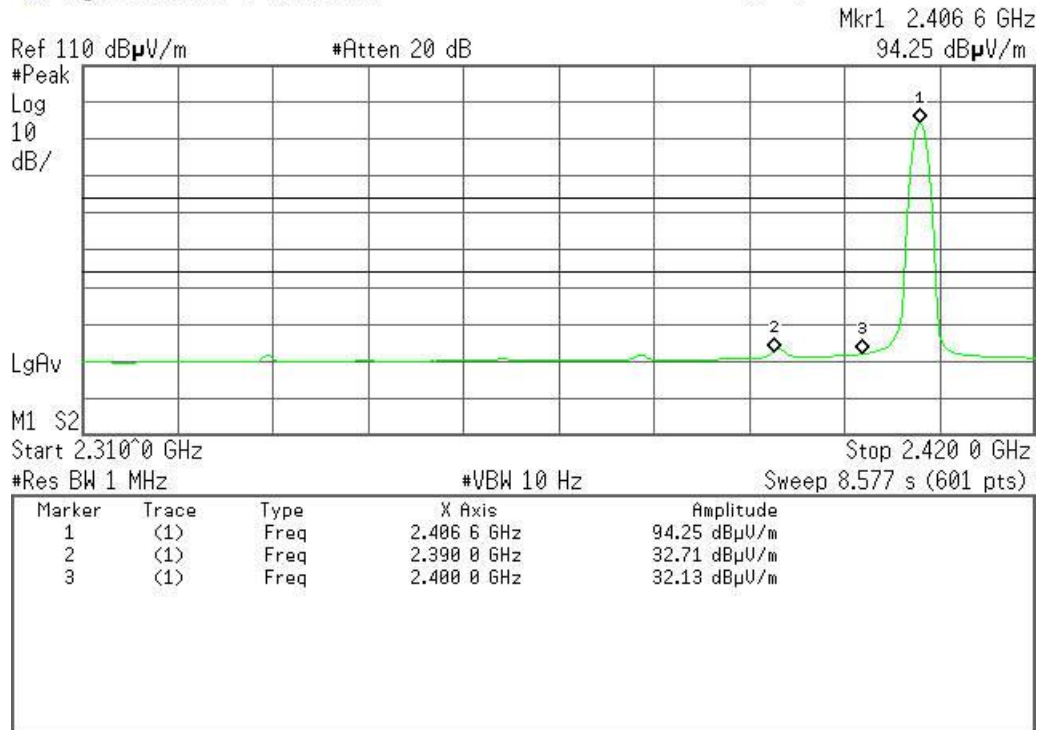
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R T



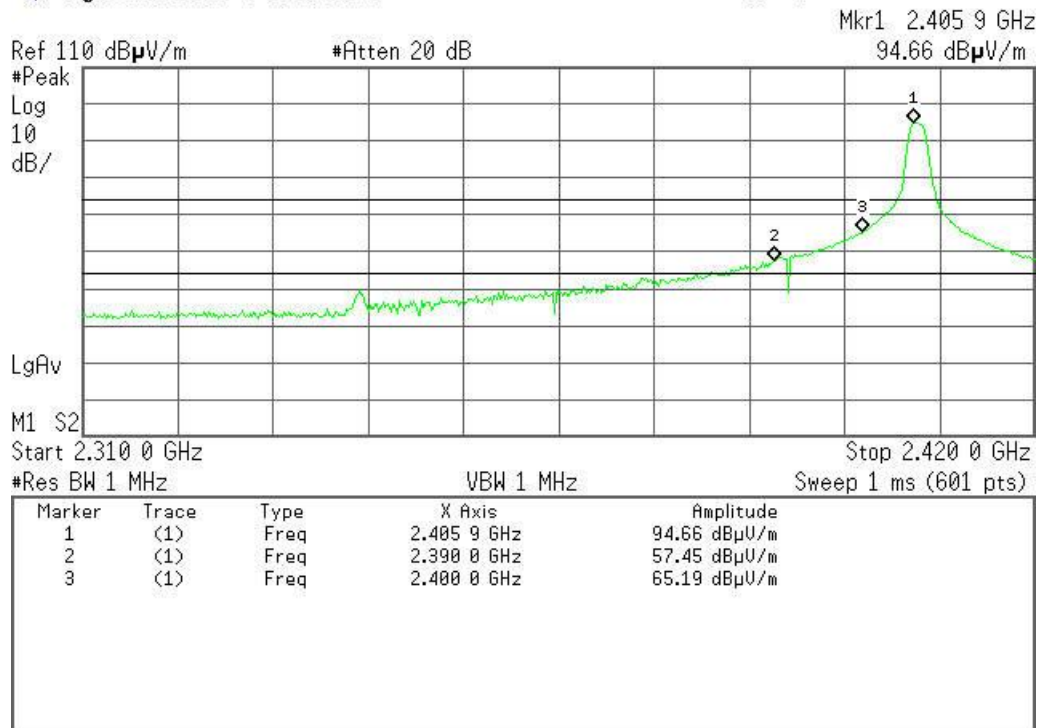
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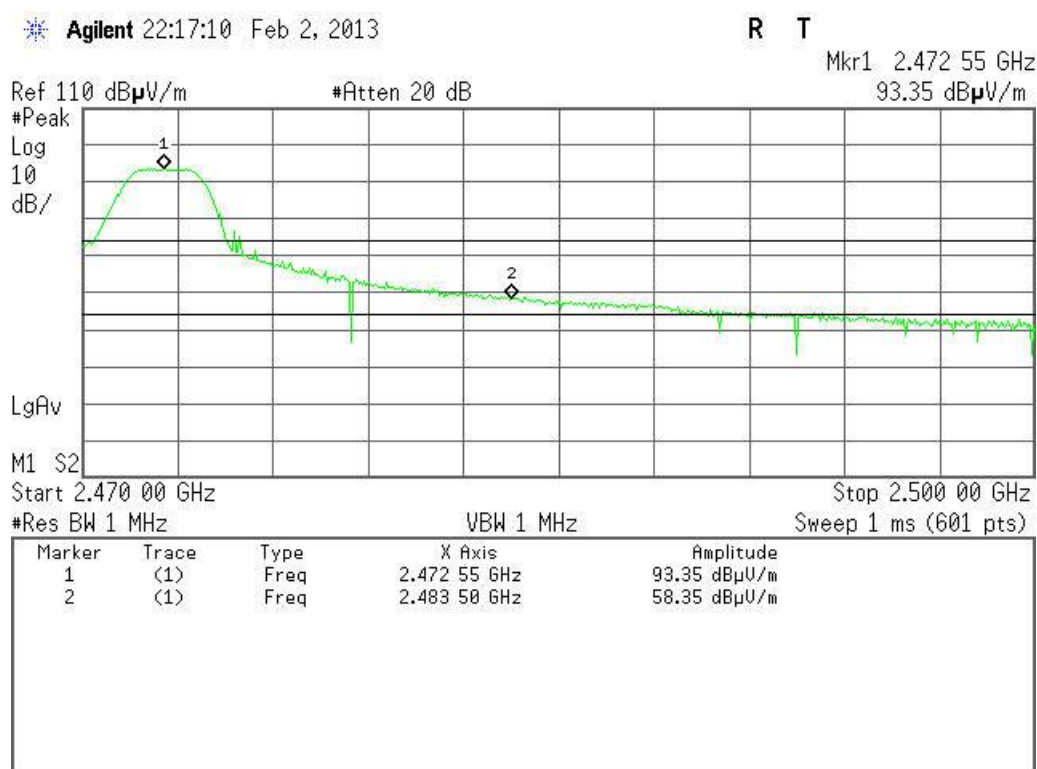
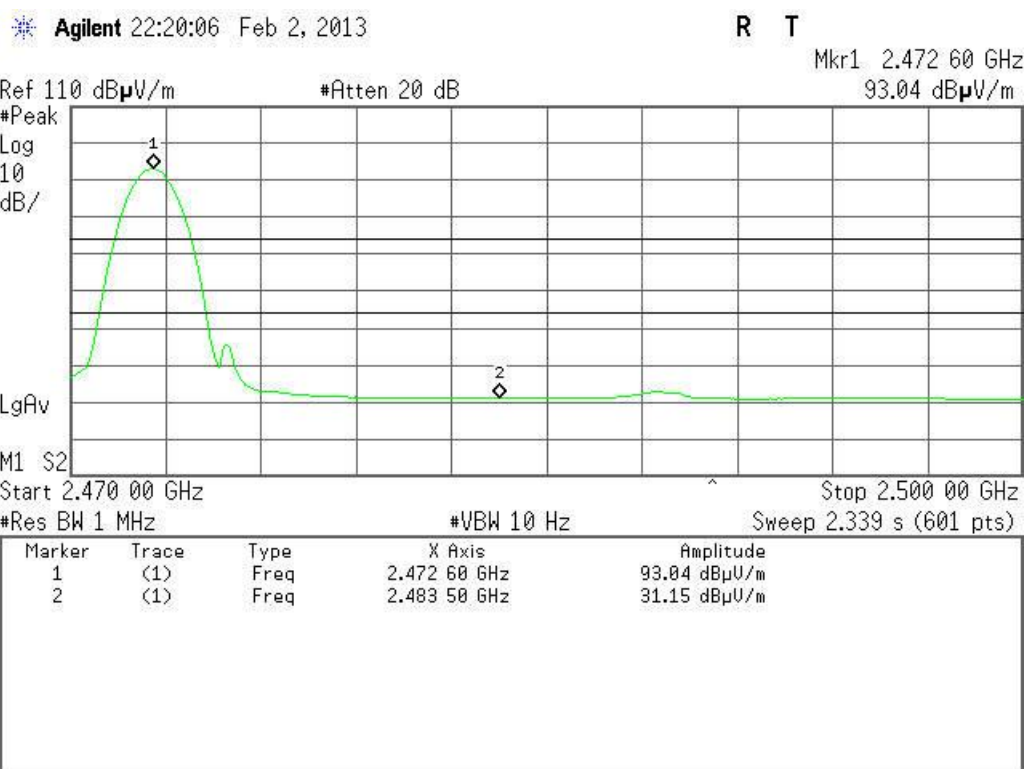
R T



Agilent 22:36:11 Feb 2, 2013

R T





Agilent 21:03:56 Feb 2, 2013

R T

Mkr1 2.472 55 GHz
 100.82 dB μ V/m

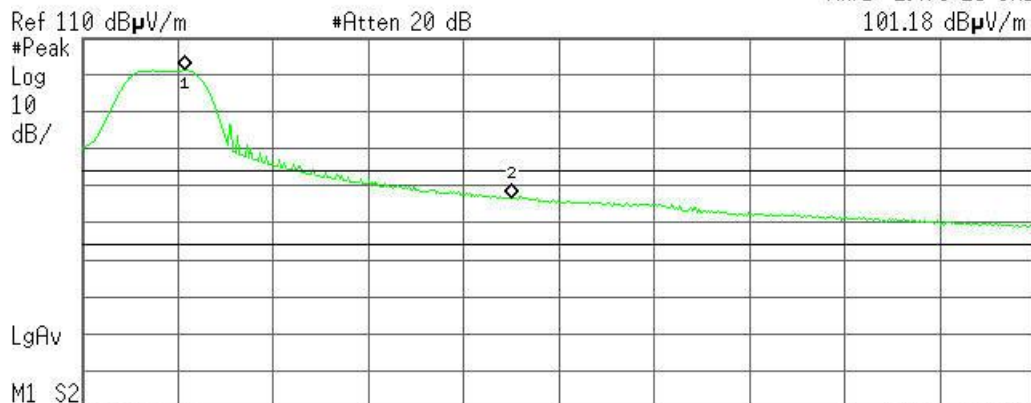


Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.472 55 GHz	100.82 dB μ V/m
2	(1)	Freq	2.483 50 GHz	32.71 dB μ V/m

Agilent 21:07:14 Feb 2, 2013

R T

Mkr1 2.473 25 GHz
 101.18 dB μ V/m



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.473 25 GHz	101.18 dB μ V/m
2	(1)	Freq	2.483 50 GHz	66.73 dB μ V/m

5.1.6 Frequency Separation

RESULT:

Pass

Date of testing	:	2013-01-18
Test standard	:	FCC part 15.247(a)(1) RSS-210 A8.1(b)
Basic standard	:	ANSI C63.4: 2009
Limit	:	≥ 25kHz or two-thirds of 20dB bandwidth, whichever is greater
Kind of test site	:	Shield room

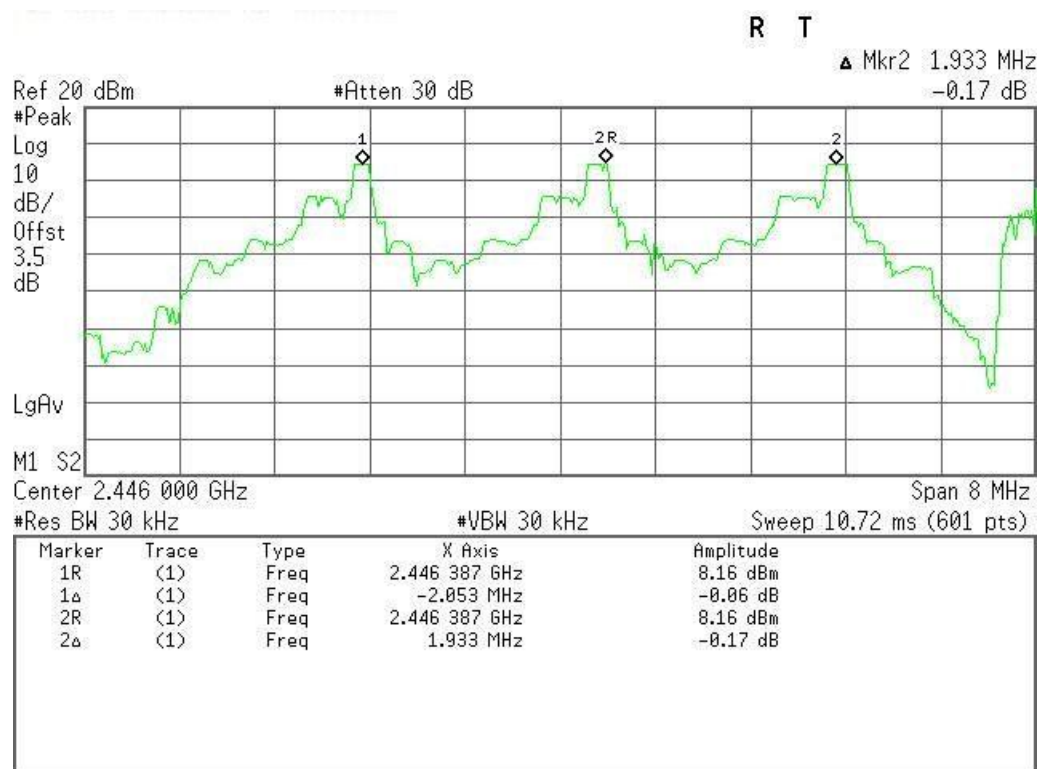
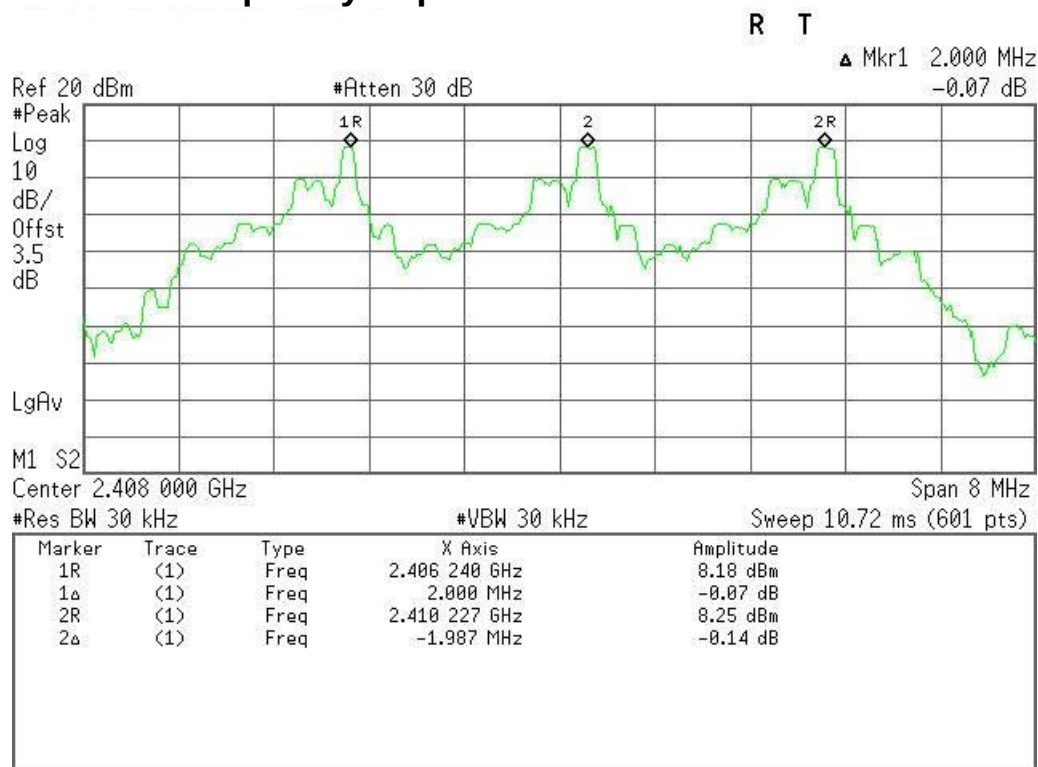
Test setup

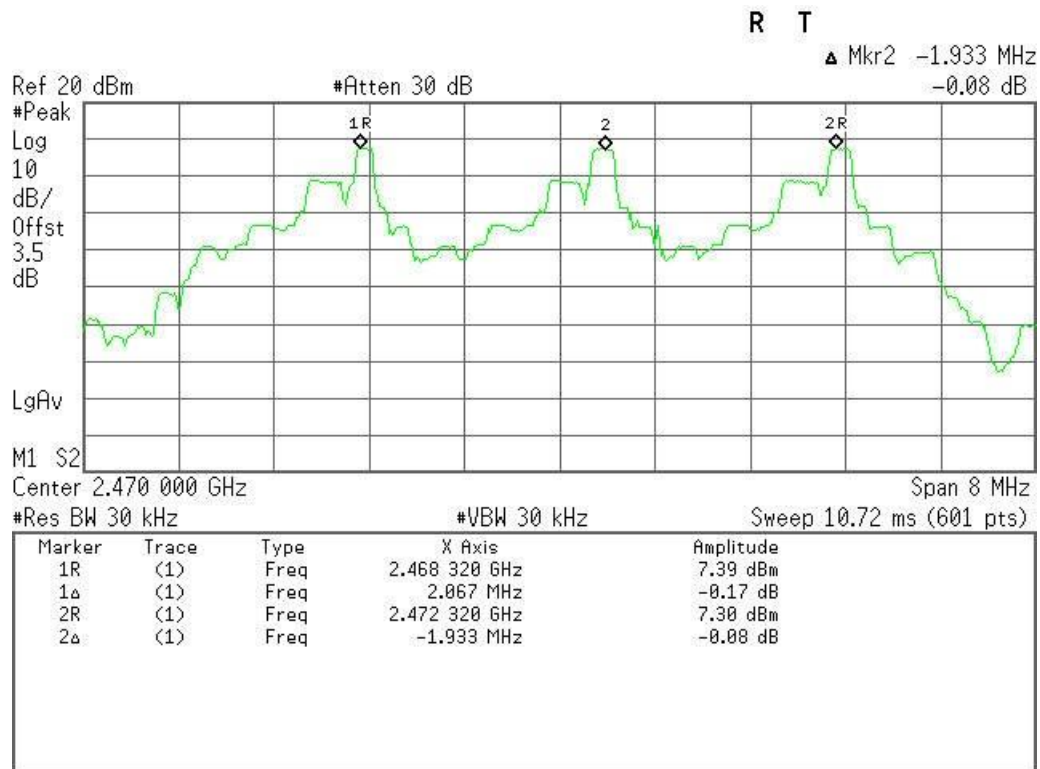
Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

Table 7: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2406	2.000	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2408			
Mid Channel	2444	2.052	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2446			
High Channel	2470	1.933	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2472			

Test Plot of Frequency Separation





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5.1.7 Number of hopping frequency**RESULT:****Pass**

Date of testing : 2013-01-18
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

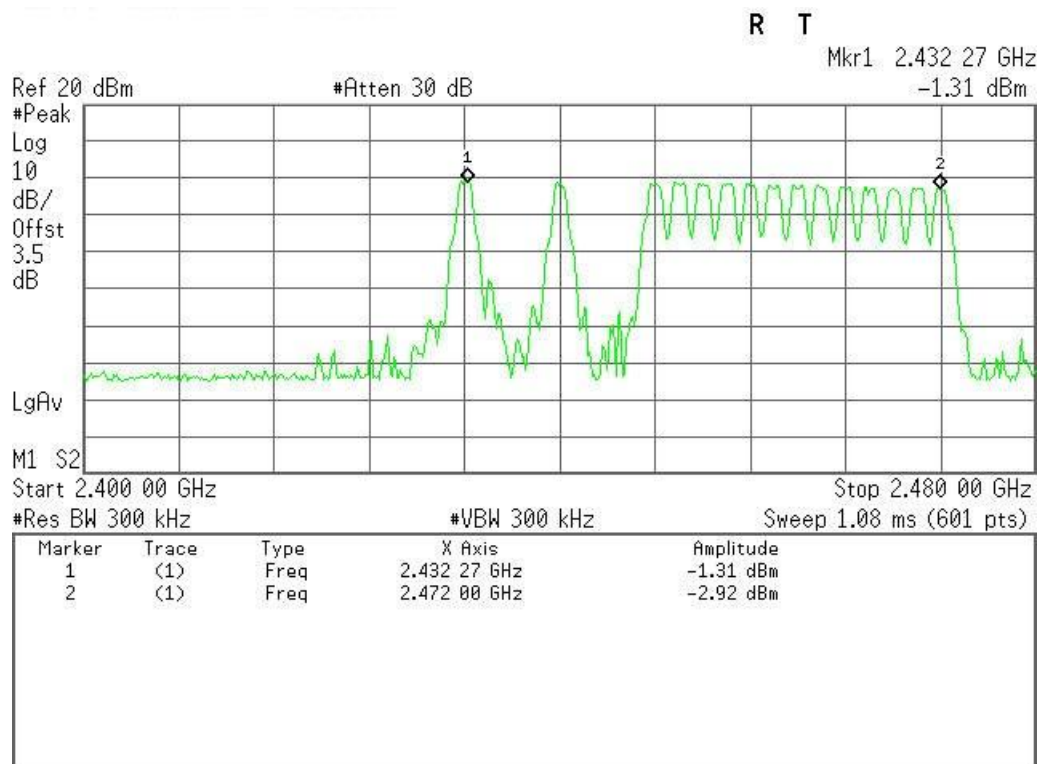
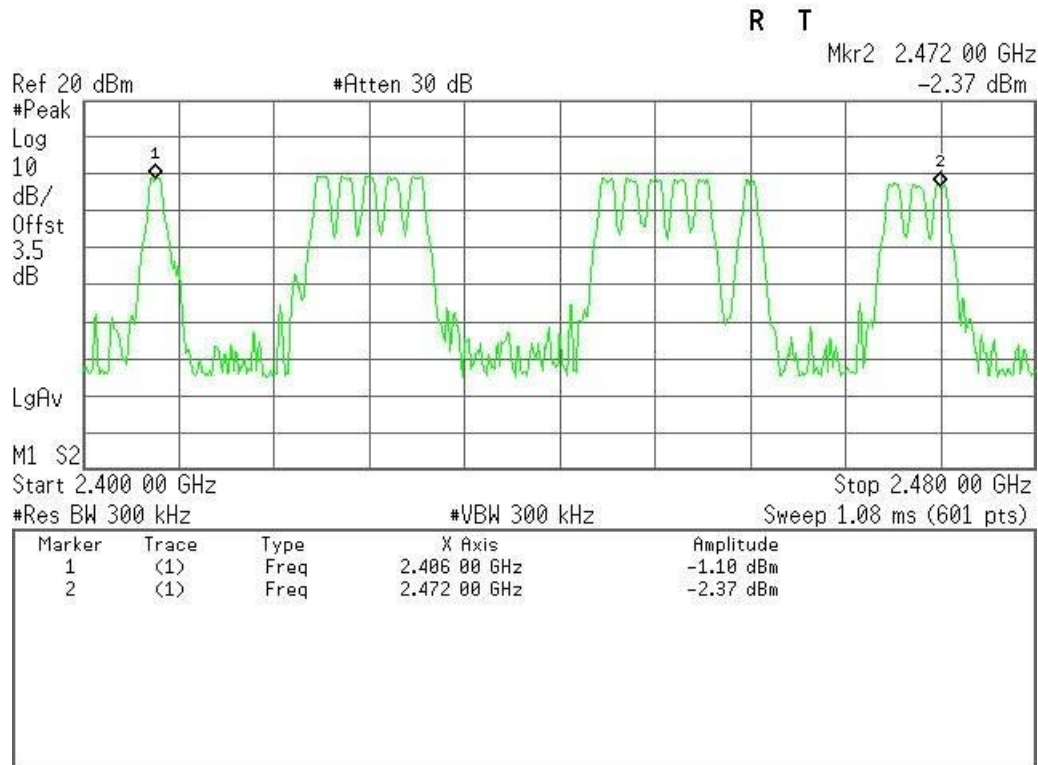
Test setup

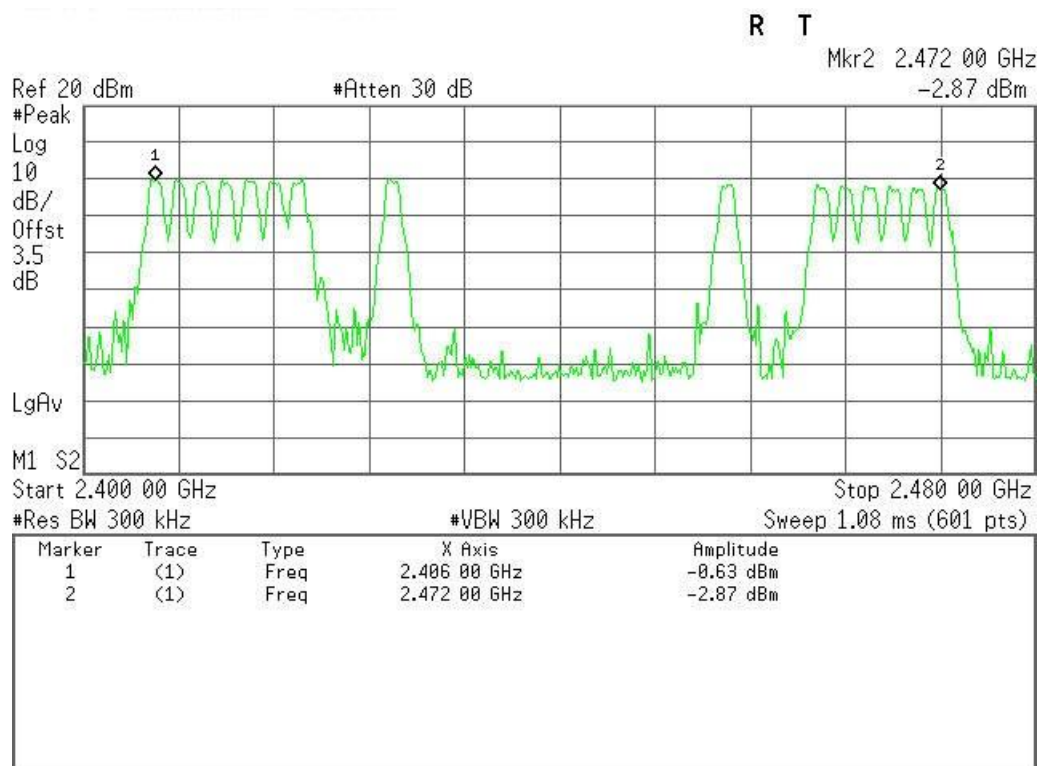
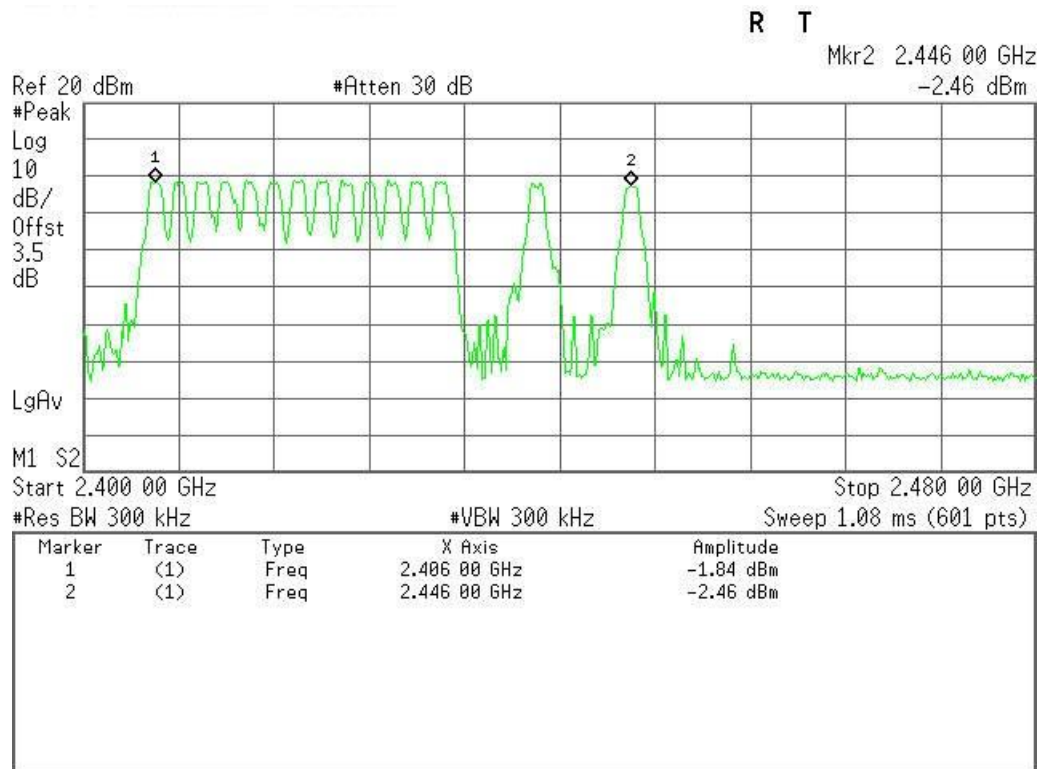
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

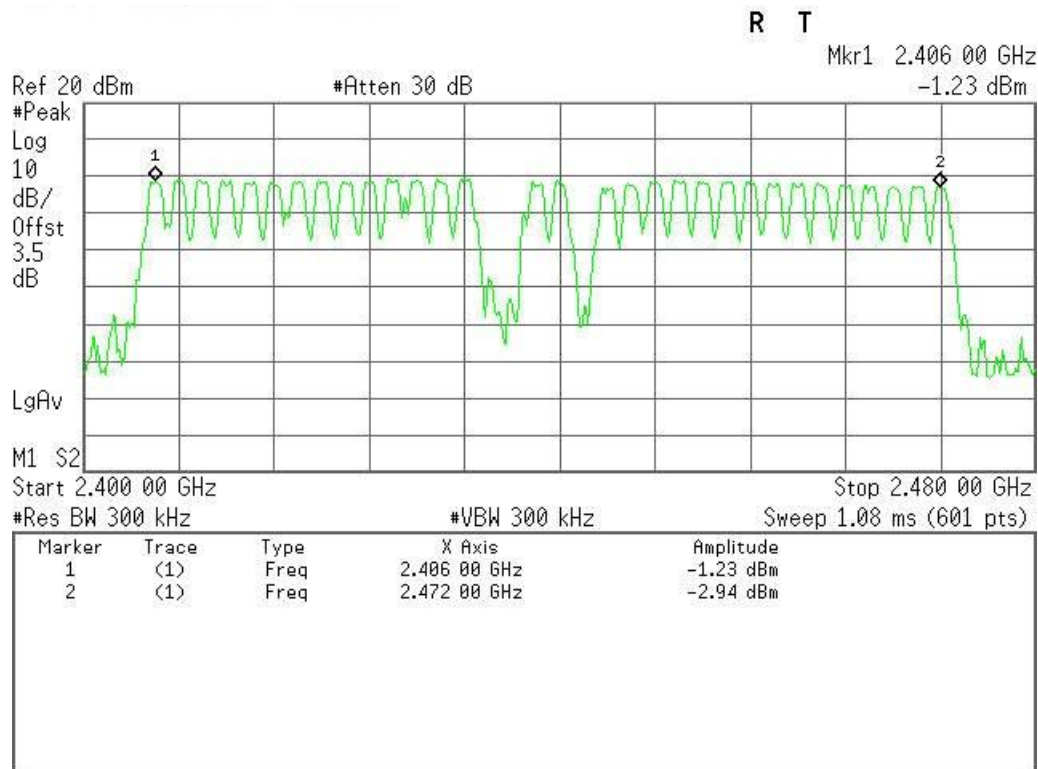
Table 8: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2406 to 2472MHz	31	≥ 15	Pass

Test Plot of Number of hopping frequency







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5.1.8 Time of Occupancy

RESULT:**Pass**

Date of testing : 2013-01-18
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
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 9: Test result of Time of Occupancy

Channel	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
2406MHz	3.700	0.389	0.4	Pass
2444MHz	3.717	0.390	0.4	Pass
2472MHz	3.717	0.390	0.4	Pass

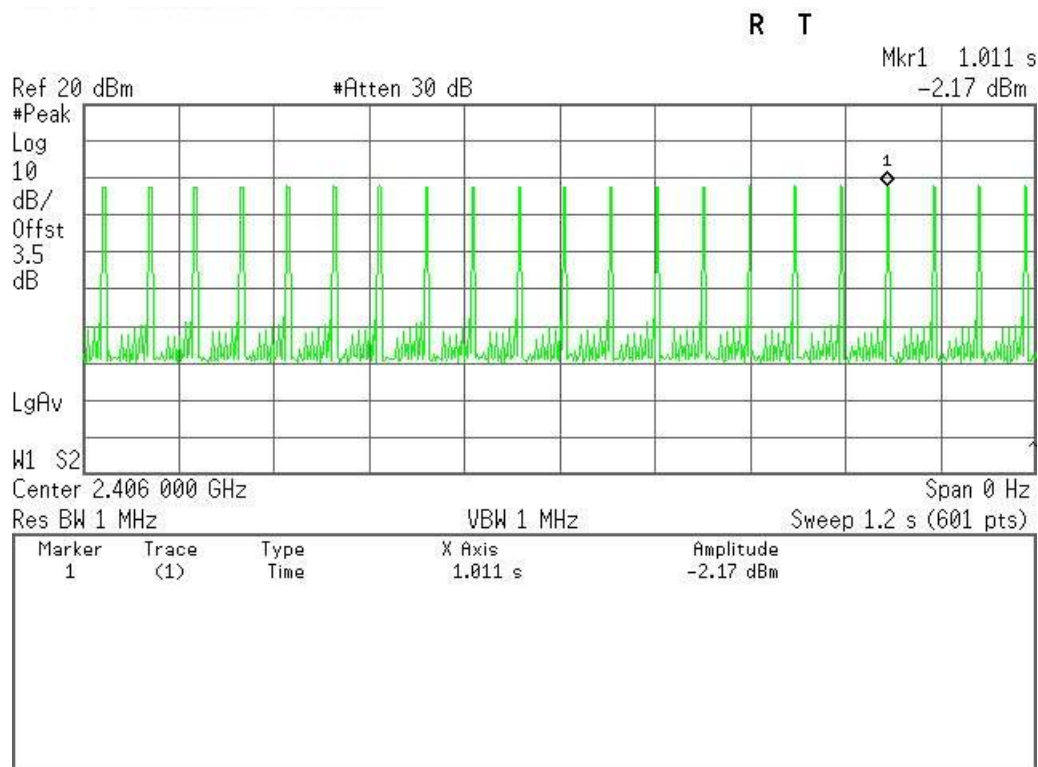
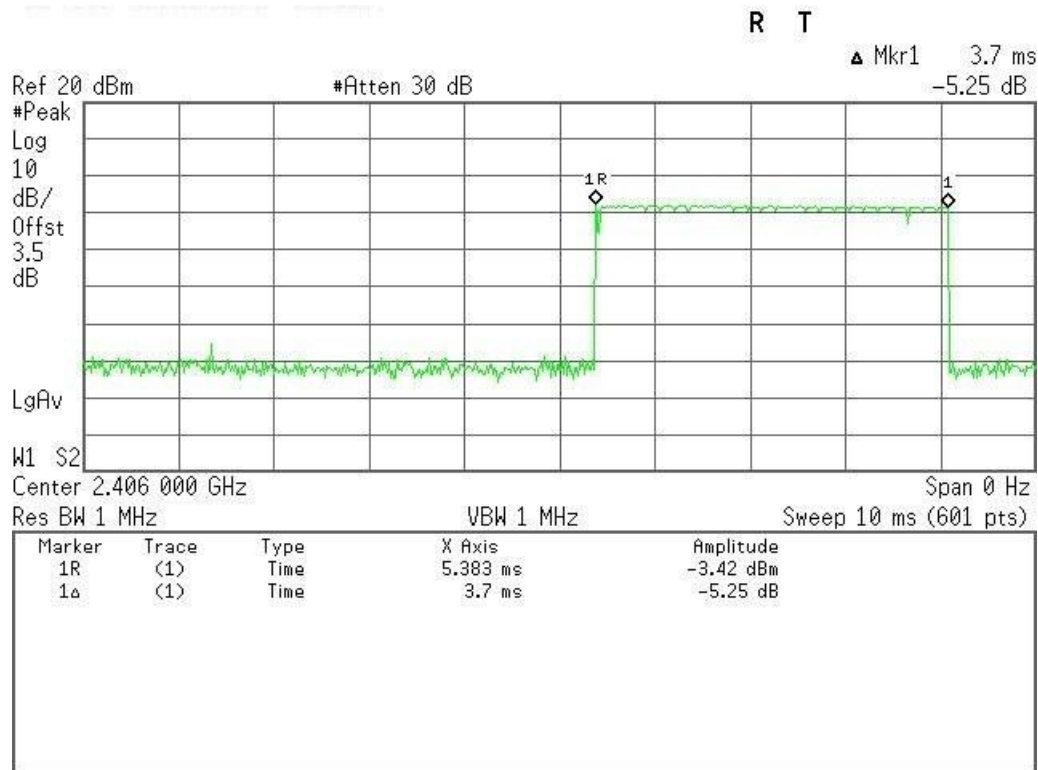
Note:

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

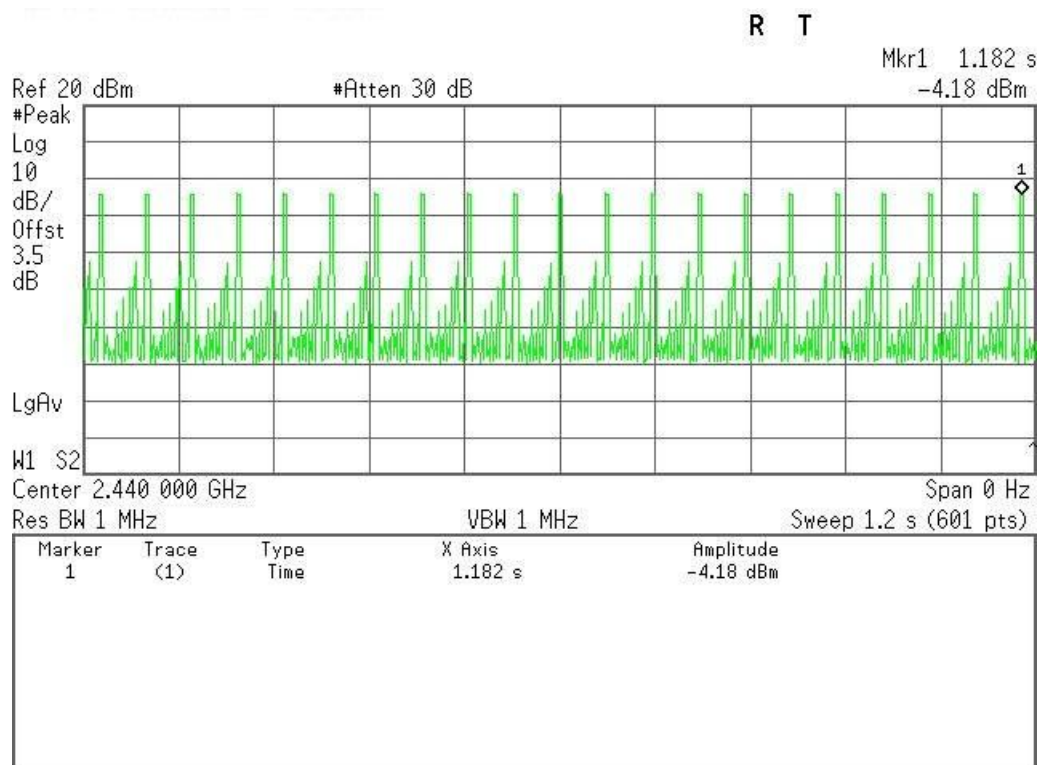
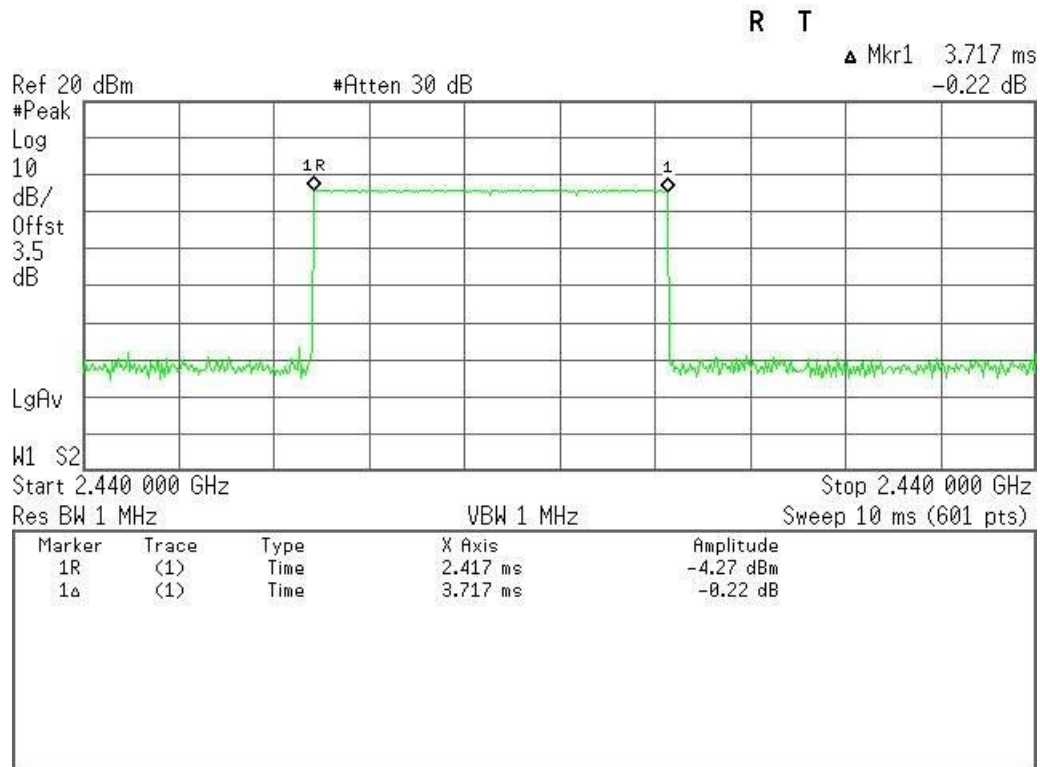
Period = 0.4 (seconds/ channel) x 15 (channel) = 6 seconds

Test Plot of Time of Occupancy

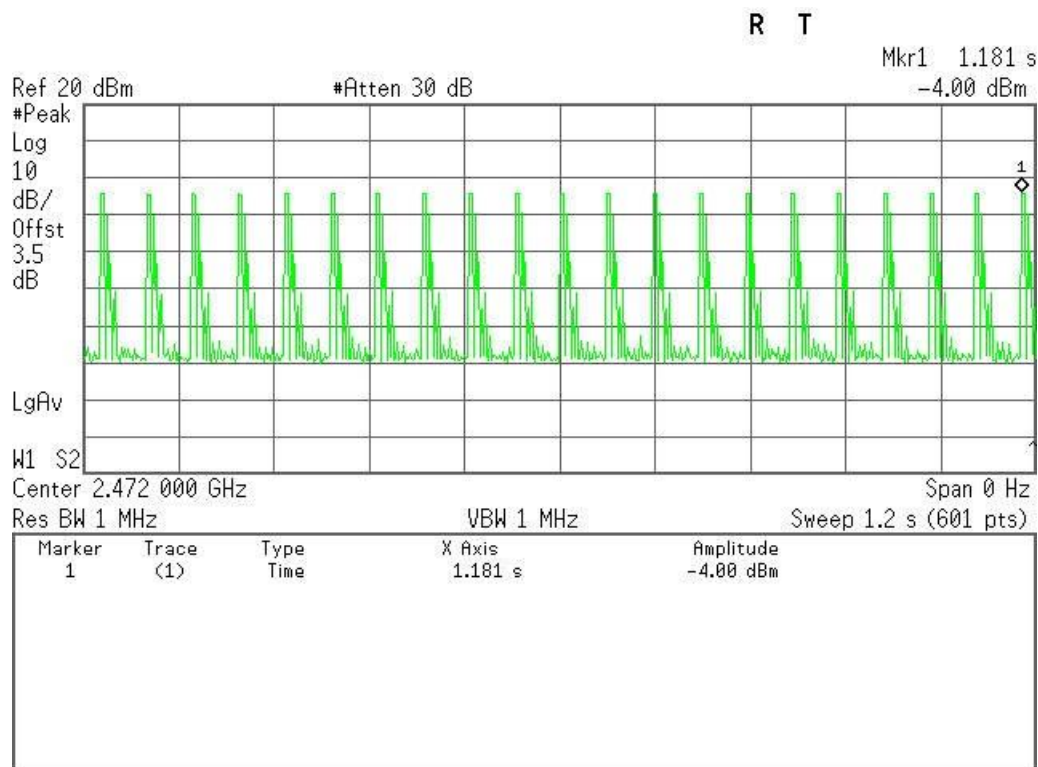
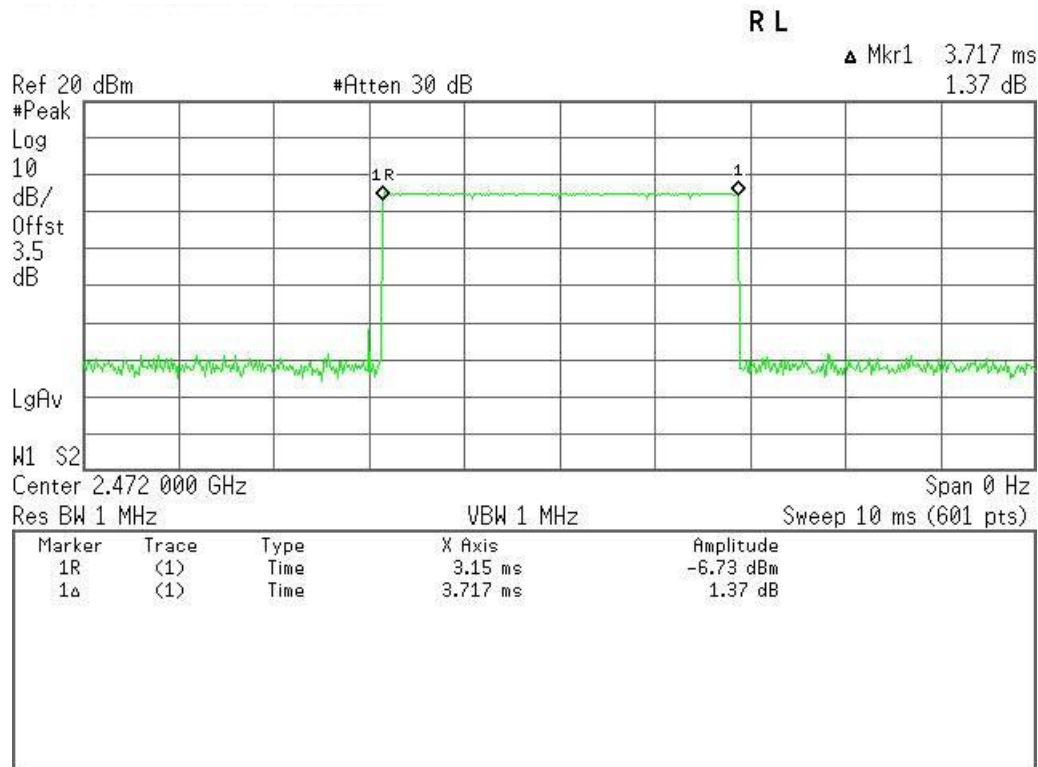
Low channel



Middle channel



High channel



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5.1.9 Radiated emissions**RESULT:****Pass**

Date of testing	:	2013-01-28
Test standard	:	FCC Part 15.109 ICES-003 Issue 4 February 2004
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	30 – 18000MHz
Limits	:	FCC Part 15.109(a) ICES-003 Issue 4 February 2004
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

For details refer to following test plot.

Test Plot of Radiated emissions



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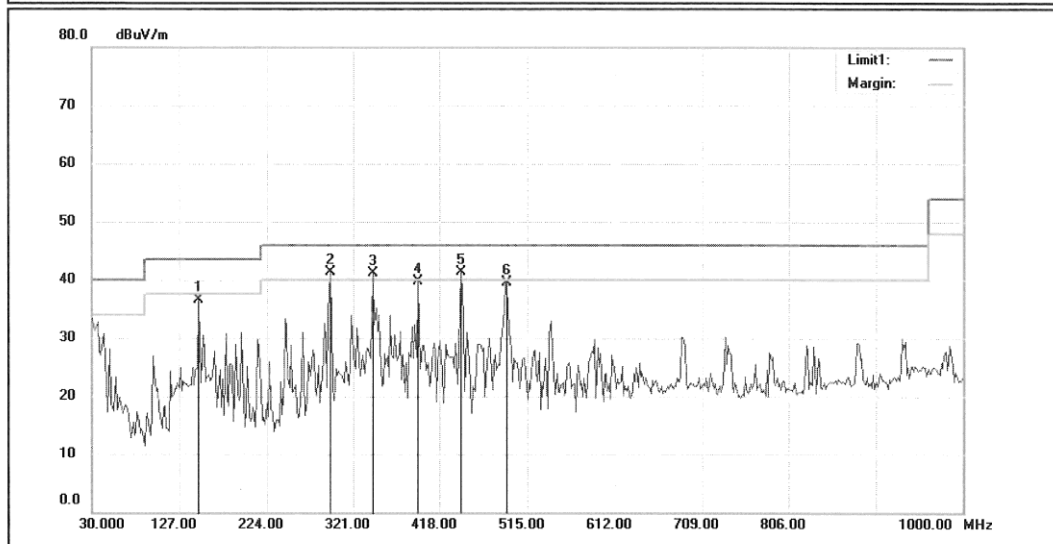
地址: 广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Horizontal
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-1-28 Time: 16:29:02
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: Charging	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	148.0166	55.29	-18.81	36.48	43.50	-7.02	---	---	peak
2*	295.1333	60.14	-18.76	41.38	46.00	-4.62	---	---	peak
3!	343.6333	58.34	-17.23	41.11	46.00	-4.89	---	---	peak
4	393.7500	56.09	-16.33	39.76	46.00	-6.24	---	---	peak
5!	442.2500	56.36	-15.12	41.24	46.00	-4.76	---	---	peak
6	492.3666	54.28	-14.69	39.59	46.00	-6.41	---	---	peak



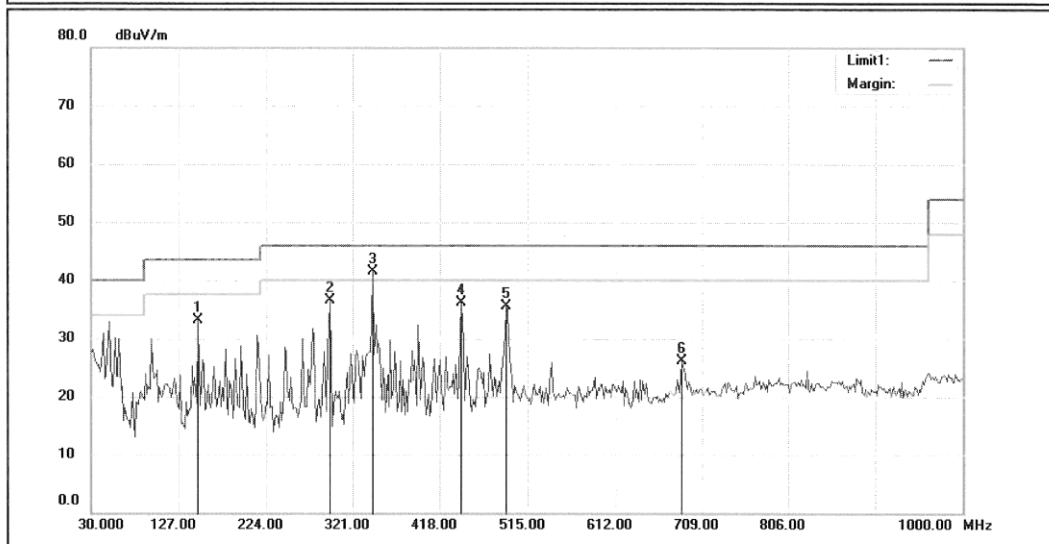
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ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Vertical
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-1-28 Time: 16:32:48
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: Charging	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	148.0166	51.98	-18.81	33.17	43.50	-10.33	---	---	peak
2	295.1333	55.20	-18.76	36.44	46.00	-9.56	---	---	peak
3*	343.6333	58.82	-17.23	41.59	46.00	-4.41	---	---	peak
4	442.2500	51.22	-15.12	36.10	46.00	-9.90	---	---	peak
5	490.7500	50.30	-14.83	35.47	46.00	-10.53	---	---	peak
6	686.3667	37.19	-11.07	26.12	46.00	-19.88	---	---	peak



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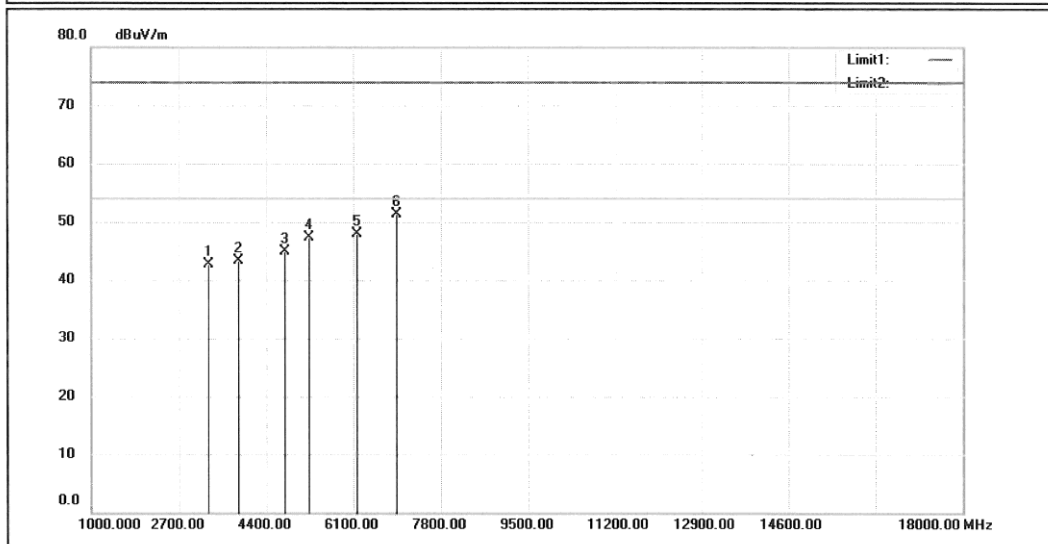
地址：广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe : Horizontal
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-1 Time: 11:51:51
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By : Sunday
Test Mode: Charging	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	3266.6667	46.73	-4.06	42.67	74.00	-31.33	---	---	peak
2	3861.6667	45.73	-2.50	43.23	74.00	-30.77	---	---	peak
3	4768.3333	44.57	0.27	44.84	74.00	-29.16	---	---	peak
4	5221.6667	45.71	1.55	47.26	74.00	-26.74	---	---	peak
5	6156.6667	44.34	3.55	47.89	74.00	-26.11	---	---	peak
6*	6921.6667	45.30	5.95	51.25	74.00	-22.75	---	---	peak



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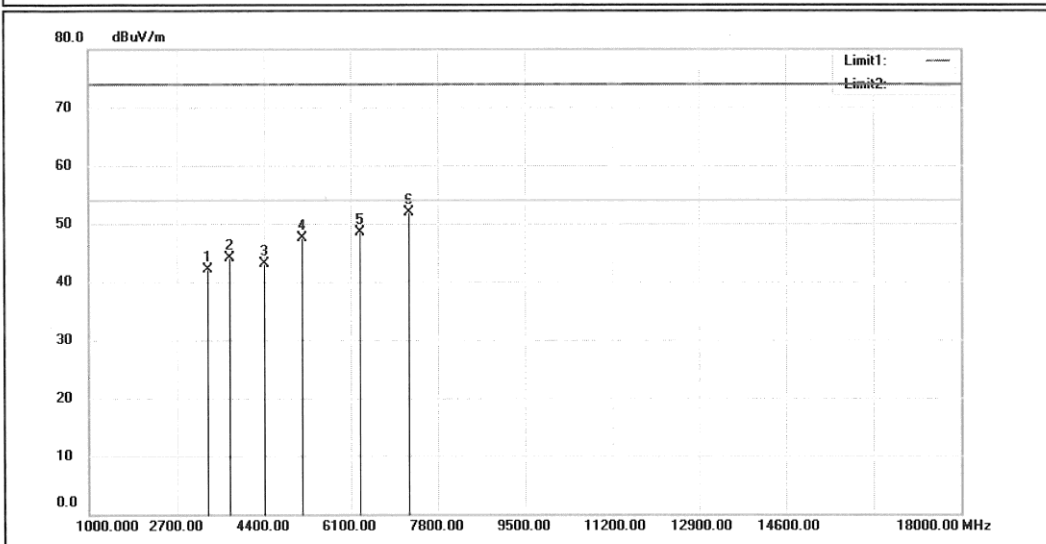
地址: 广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

ShenZhen LAB 966 (2)

Job No.: C130116Z02	Probe: Vertical
Standard: FCC Part15 Class B (Above 1G)_PK	Tested Distance: 3m
Test item: Radiation Test	Power Source: AC 120V/60Hz
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2013-2-1 Time: 11:53:03
Company: Uni-Art	EUT: 2.4GHz Digital Wireless
Model: DHP780B	Test By: Sunday
Test Mode: Charging	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	3295.0000	46.23	-4.05	42.18	74.00	-31.82	---	---	peak
2	3720.0000	46.79	-2.70	44.09	74.00	-29.91	---	---	peak
3	4371.6667	44.11	-0.93	43.18	74.00	-30.82	---	---	peak
4	5136.6667	45.98	1.48	47.46	74.00	-26.54	---	---	peak
5	6298.3333	44.49	3.98	48.47	74.00	-25.53	---	---	peak
6*	7233.3333	44.57	7.40	51.97	74.00	-22.03	---	---	peak

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5.1.10 Conducted emissions**RESULT:****Pass**

Date of testing	:	2013-01-25
Test standard	:	FCC Part 15.107 (a) FCC Part 15.207 RSS-210 Clause 2.6
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a) FCC Part 15.207 Table 4 of RSS-Gen
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.

Test Plot of Conducted emissions



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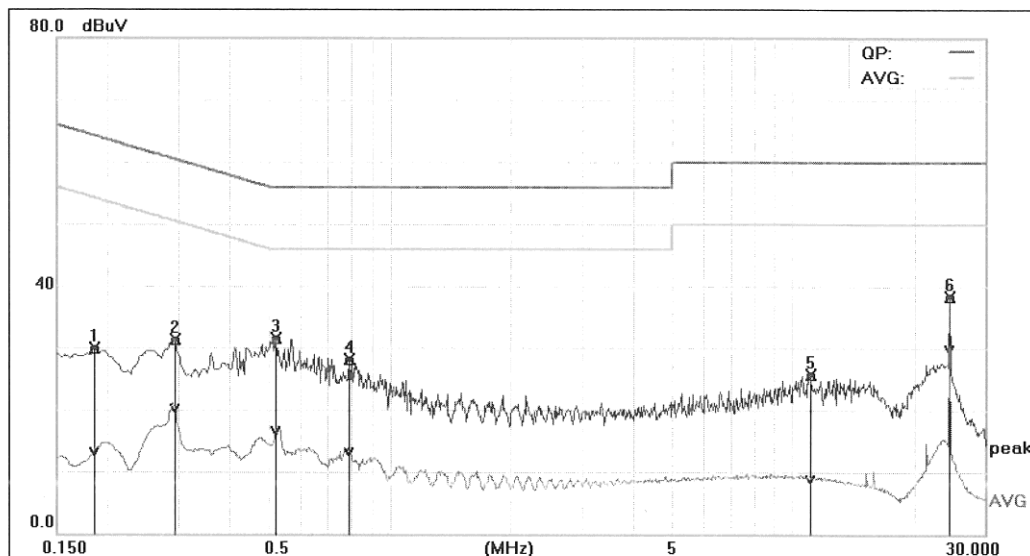
地址: 广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

conduction #1

Job No.:	C130116Z02	Date:	2013-1-25
Company:	Uni-Art	Time:	14:08:22
Standard:	FCC Class B Conduction(QP)	Temp.(C)/Hum.(%):	22(C)/45%
Test item:	Conduction test	EUT:	2.4GHz Digital Wireless Headphone
Line:	L1	Test Voltage:	AC 120V/60Hz
Model:	DHP780B	Test By:	Viking
Description:	Play Music		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1860	20.31	3.95	9.65	29.96	13.60	64.21	54.21	-34.25	-40.61	Pass
2	0.2940	21.72	10.85	9.63	31.35	20.48	60.41	50.41	-29.06	-29.93	Pass
3	0.5220	21.83	7.13	9.70	31.53	16.83	56.00	46.00	-24.47	-29.17	Pass
4	0.7940	18.36	3.84	9.69	28.05	13.53	56.00	46.00	-27.95	-32.47	Pass
5	11.1100	15.85	-0.63	9.80	25.65	9.17	60.00	50.00	-34.35	-40.83	Pass
6*	24.5780	28.28	20.21	9.99	38.27	30.20	60.00	50.00	-21.73	-19.80	Pass



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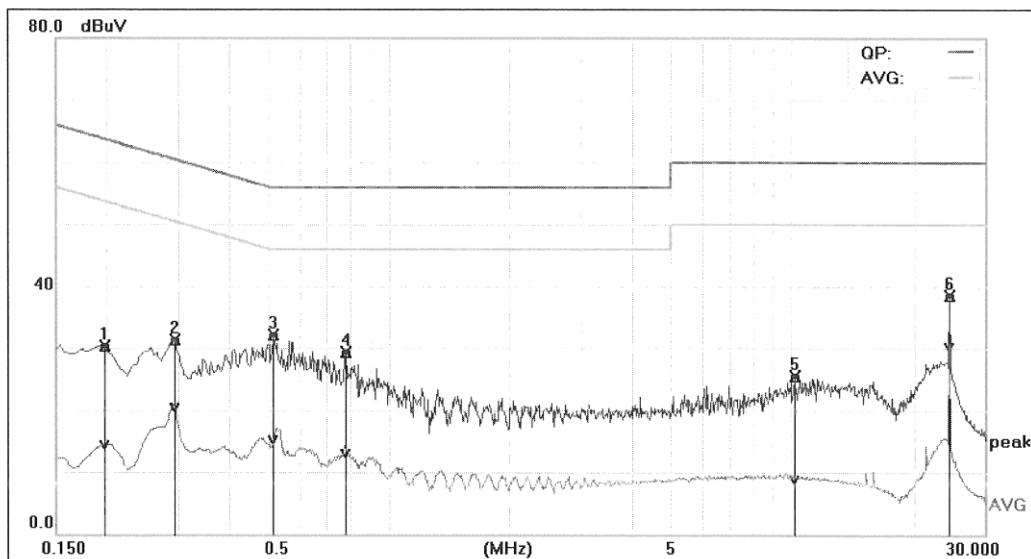
地址: 广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

conduction #1

Job No.:	C130116Z02	Date:	2013-1-25
Company:	Uni-Art	Time:	14:01:54
Standard:	FCC Class B Conduction(QP)	Temp.(C)/Hum.(%):	22(C)/45%
Test item:	Conduction test	EUT:	2.4GHz Digital Wireless Headphone
Line:	N	Test Voltage:	AC 120V/60Hz
Model:	DHP780B	Test By:	Viking
Description:	Play Music		



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1980	20.67	5.00	9.61	30.28	14.61	63.69	53.69	-33.41	-39.08	Pass
2	0.2940	21.73	11.11	9.64	31.37	20.75	60.41	50.41	-29.04	-29.66	Pass
3	0.5180	22.43	5.84	9.71	32.14	15.55	56.00	46.00	-23.86	-30.45	Pass
4	0.7820	19.71	3.69	9.68	29.39	13.37	56.00	46.00	-26.61	-32.63	Pass
5	10.2140	15.71	-0.62	9.80	25.51	9.18	60.00	50.00	-34.49	-40.82	Pass
6*	24.5780	28.35	20.50	10.10	38.45	30.60	60.00	50.00	-21.55	-19.40	Pass



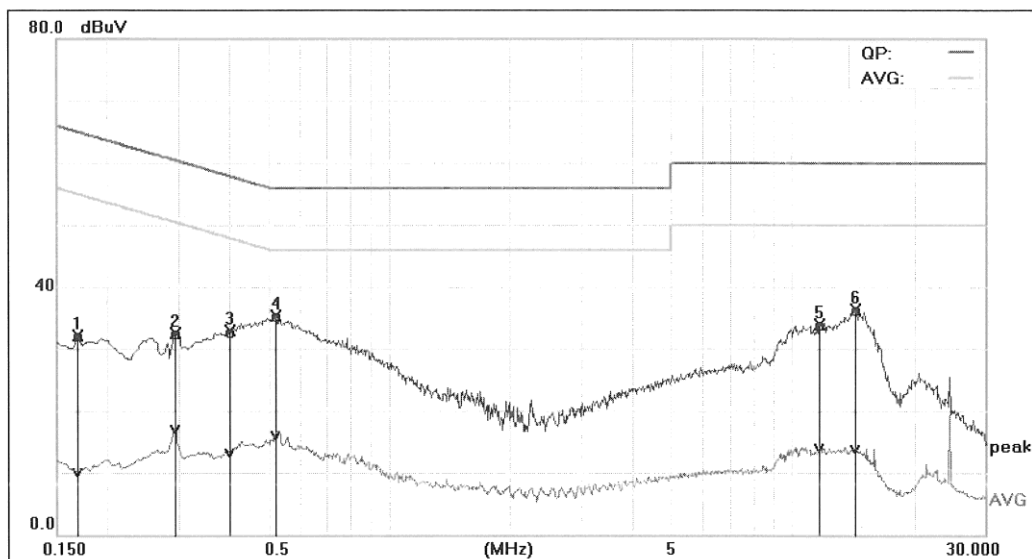
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conduction #1

Job No.:	C130116Z02	Date:	2013-1-25
Company:	Uni-Art	Time:	13:54:49
Standard:	FCC Class B Conduction(QP)	Temp.(C)/Hum.(%):	22(C)/45%
Test item:	Conduction test	EUT:	2.4GHz Digital Wireless Headphone
Line:	L1	Test Voltage:	AC 120V/60Hz
Model:	DHP780B	Test By:	Viking
Description:	Charge		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1700	22.38	0.52	9.71	32.09	10.23	64.96	54.96	-32.87	-44.73	Pass
2	0.2940	22.84	7.60	9.63	32.47	17.23	60.41	50.41	-27.94	-33.18	Pass
3	0.3997	23.10	3.90	9.66	32.76	13.56	57.86	47.86	-25.10	-34.30	Pass
4*	0.5220	25.60	6.67	9.70	35.30	16.37	56.00	46.00	-20.70	-29.63	Pass
5	11.6860	24.15	4.48	9.81	33.96	14.29	60.00	50.00	-26.04	-35.71	Pass
6	14.3260	26.47	4.22	9.89	36.36	14.11	60.00	50.00	-23.64	-35.89	Pass



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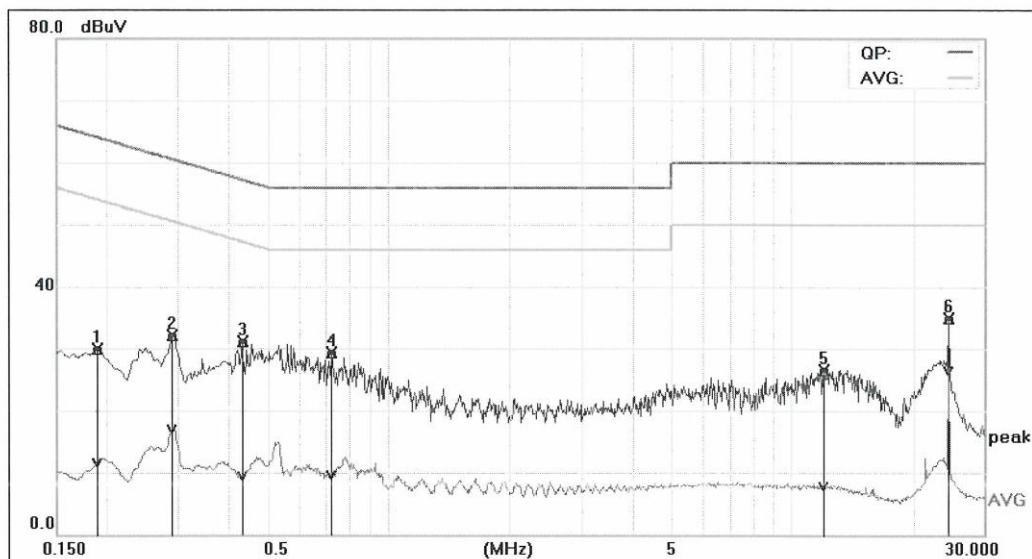
地址: 广东省深圳市观澜镇环观南路18号铭可达物流园10-1栋

TEL: 0755-28055000

FAX: 0755-29564902

conduction #1

Job No.:	C130116Z02	Date:	2013-1-25
Company:	Uni-Art	Time:	13:58:30
Standard:	FCC Class B Conduction(QP)	Temp.(C)/Hum.(%):	22(C)/45%
Test item:	Conduction test	EUT:	2.4GHz Digital Wireless Headphone
Line:	N	Test Voltage:	AC 120V/60Hz
Model:	DHP780B	Test By:	Viking
Description:	Charge		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1900	20.40	2.27	9.59	29.99	11.86	64.03	54.04	-34.04	-42.18	Pass
2	0.2900	22.45	7.72	9.64	32.09	17.36	60.52	50.52	-28.43	-33.16	Pass
3	0.4340	21.50	-0.03	9.69	31.19	9.66	57.18	47.18	-25.99	-37.52	Pass
4	0.7260	19.54	0.29	9.68	29.22	9.97	56.00	46.00	-26.78	-36.03	Pass
5	12.0580	16.57	-1.78	9.84	26.41	8.06	60.00	50.00	-33.59	-41.94	Pass
6*	24.5780	24.74	16.55	10.10	34.84	26.65	60.00	50.00	-25.16	-23.35	Pass

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

Test standard : RSS-102 Issue 4
FCC KDB Publication 447498 v05

The maximum peak output power of the transmitter is 5mW (6.98dBm) 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.

The maximum peak output power of the transmitter is 5mW, which far below than the SAR exclusion threshold level (Appendix B, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and >50 mm):

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	mW

Therefore the transmitter is deemed comply with the requirement without SAR testing.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Radiated Emissions below 1GHz



Photograph 3: Set-up for Radiated Emissions above 1GHz



Photograph 4: Set-up for Spurious Emissions below 1GHz



Photograph 5: Set-up for Spurious Emissions above 1GHz



Photograph 6: Setup for Radio Spectrum testing



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