

# FCC Part 15C

Measurement And Test Report  
For

**Dongguan Jindian Bright Corp**

NO.1, SHANGNAN ROAD, SHANGJIAO DISTRICT, CHANG AN TOWN, DONGGUAN ,  
GUANGDONG, 523878 CHINA

**FCC ID: ZUOLE-906**

**Feb 29, 2012**

<b>This Report Concerns:</b> <input checked="" type="checkbox"/> Original Report	<b>Equipment Type:</b> 2.4G Smart TX
<b>Report Number:</b>	MTI120206004RF
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<b>Test Date:</b>	Feb. 17, 2012– Feb. 29, 2012
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**Note:** This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of MTI Technology Laboratory Ltd.

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# 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment Under Test (EUT)

Applicant:	Dongguan Jindian Bright Corp
Address of applicant:	NO.1, SHANGNAN ROAD, SHANGJIAO DISTRICT, CHANG AN TOWN, DONGGUAN, GUANGDONG, 523878 CHINA.
Manufacturer:	Dongguan Jindian Bright Corp
Address of manufacturer:	NO.1, SHANGNAN ROAD, SHANGJIAO DISTRICT, CHANG AN TOWN, DONGGUAN, GUANGDONG, 523878 CHINA.
Equipment Under Test:	2.4G Smart TX
Tested Model No.:	LE-906
Trade Name:	KP KING POINT
Supplementary Models No:	/
	Remark: supplementary models are only different in exterior with tested Model and with the same circuit construction
Type of Modulation:	GFSK
Antenna Type:	External Antenna
Frequency Band:	2433~2481 MHz
Rated Power:	<10mW
Power Supply:	DC 9V adapter

Remark: \* The test data gathered are from the production sample provided by the manufacturer.

## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2003.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.209, and 15.249 rules.

## 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 - 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. Radiated testing was performed at an antenna to EUT distance 3 meters.

## **1.4 Test Facility**

All measurement required was performed at laboratory of NTEK Testing Technology Co., Ltd., at 1/F, Building E, Fenda Science Park Sanwei Community, Xixiang Street, Baoan District , Shenzhen,Guangdong

The test facility is recognized, certified, or accredited by the following organizations:

### **FCC – Registration No.: 238937**

NTEK Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 238937.

## **2. SYSTEM TEST CONFIGURATION**

The tests documented in this report were performed in accordance with ANSI C63.4-2003 and FCC CFR 47 Part 15 Subpart C.

### **2.1 EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### **2.2 EUT Exercise**

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

### **2.3 General Test Procedures**

**Conducted Emissions** The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

**Radiated Emissions** The EUT is placed on the turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

## 2.4 List of Measuring Equipments Used

Items	Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Calibration Period
<hr/>						
1	EMI Test Receiver	ROHDE & SCHWARZ	ESI 26	100079	2011/11	1 year
2	Horn Antenna	R/S	CH14-H052	1091698	2011/11	1 year
3	3m Semi- Anechoic Chamber	ETS	N/A	N/A	2011/11	1 year
<hr/>						
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100038	2011/11	1 year
2	EMI Test Receiver	ROHDE & SCHWARZ	ESI 26	100009	2011/11	1 year
3	Receiver/ Spectrum Analyzer	ROHDE & SCHWARZ	ESCI	100106	2011/11	1 year
4	Spectrum Analyzer	Agilent	E7405A	US41160415	2011/11	1 year
5	Artificial Mains	ROHDE & SCHWARZ	ESH2-Z5	100028	2011/11	1 year
6	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100044	2011/11	1 year
7	LISN	COM Power	LI-200	12212	2011/11	1 year
8	LISN	COM Power	LI-200	12019	2011/11	1 year
9	3m/5m Semi-Anechoic Chamber	ETS	N/A	N/A	2011/11	1 year
10	Ultra-Broadband Antenna	R/S	HL562	100015	2011/11	1 year
11	Horn Antenna	R/S	HF906	100039	2011/11	1 year
12	RF Test Panel	R/S	TS / RSP	335015/0017	N/A	N/A
13	Turntable	ETS	2088	2149	N/A	N/A
14	Antenna Mast	ETS	2075	2346	N/A	N/A

### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
15.203	Antenna Requirement	Pass
15.205	Restricted Band of Operation	Pass
15.207	Conducted Emission	Pass
15.209	Radiated Emission	Pass
15.249(a)	Field Strength	Pass
15.249(d)	Out of Band Emission	Pass

## **4. ANTENNA REQUIREMENT**

### **4.1 Standard Applicable**

Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **4.2 Antenna Connected Construction**

This product has a permanent antenna, fulfill the requirement of this section.

## 5. CONDUCTED EMISSION Measurement

### 5.1. Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

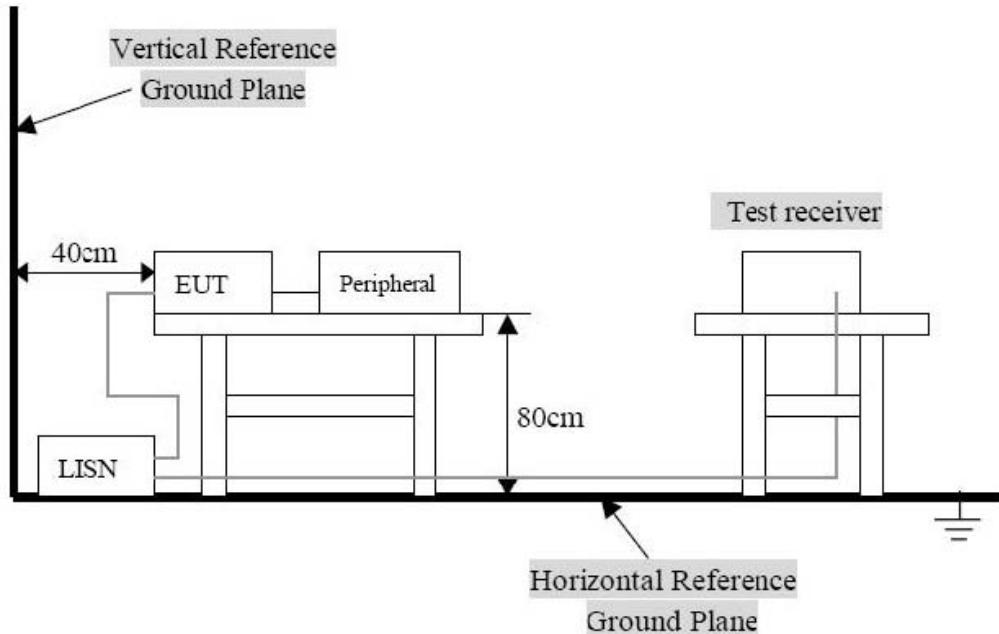
The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is  $\pm 2.4$  dB.

### 5.2 Limits of Conducted Emission

Section 15.207: For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency Range (MHz)	Limits ( dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

### 5.3 Test Setup Diagram



## 5.4 Instrument Setting

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range.....150 KHz to 30 MHz  
Detector.....Peak & Quasi-Peak & Average  
Sweep Speed.....Auto  
IF Band Width.....9 KHz

## 5.5 Test Equipment List and Details

See section 2.4 of this report.

## 5.6 Test Procedure

1. Configure the EUT according to ANSI C63.4.
2. The EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN)
4. All the support units are connected to the other LISN. The LISN should provide 50uH/50ohms coupling impedance.
5. The frequency range from 150 KHz to 30 MHz was searched.
6. Use the Channel & Power Controlling software to make the EUT working on selected channel and expected output power, then use the "H" Patter Generator software to make the supporting equipments stay on working condition.
7. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
8. The measurement has to be done between each power line and ground at the power terminal for each RF channel. Only one RF channel has to be investigated since this test is independent with the RF channel selection.

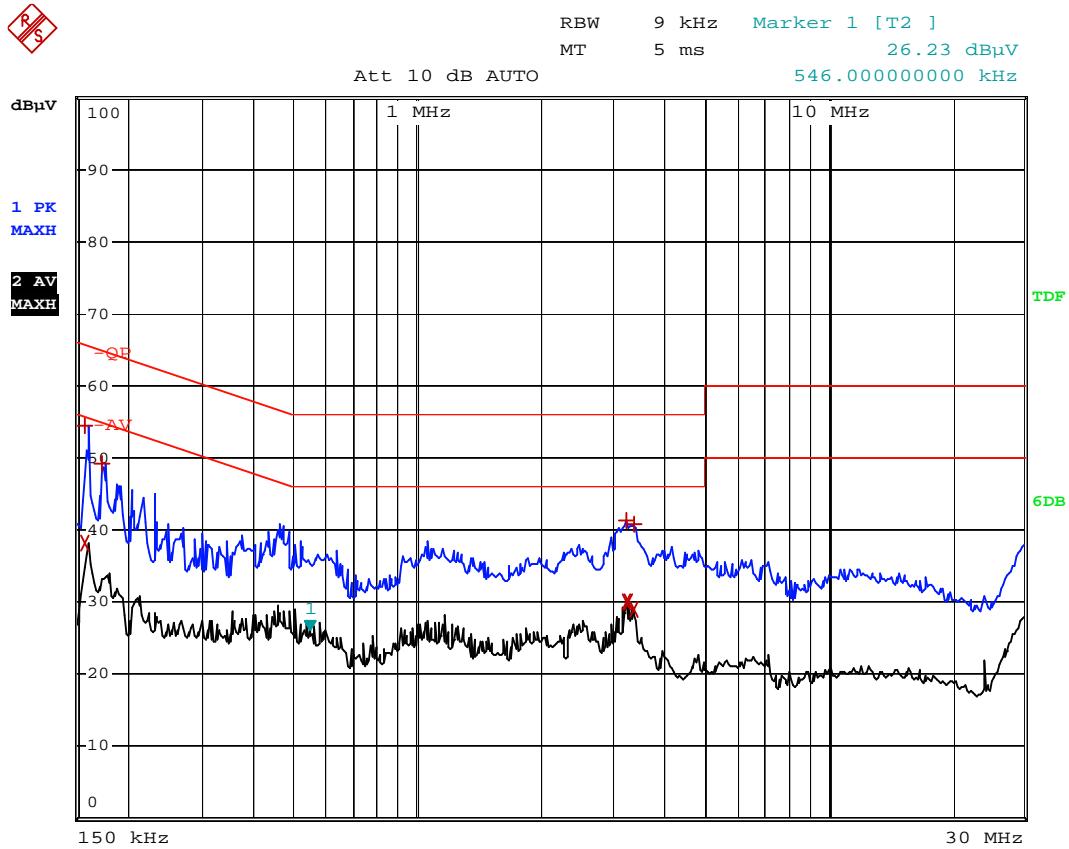
## 5.7 Test Result

Detailed information please refers to the following page.

According to the data in this section, the EUT complied with the FCC 15.207 Conducted margin for a Class B device, with the worst margin reading of:

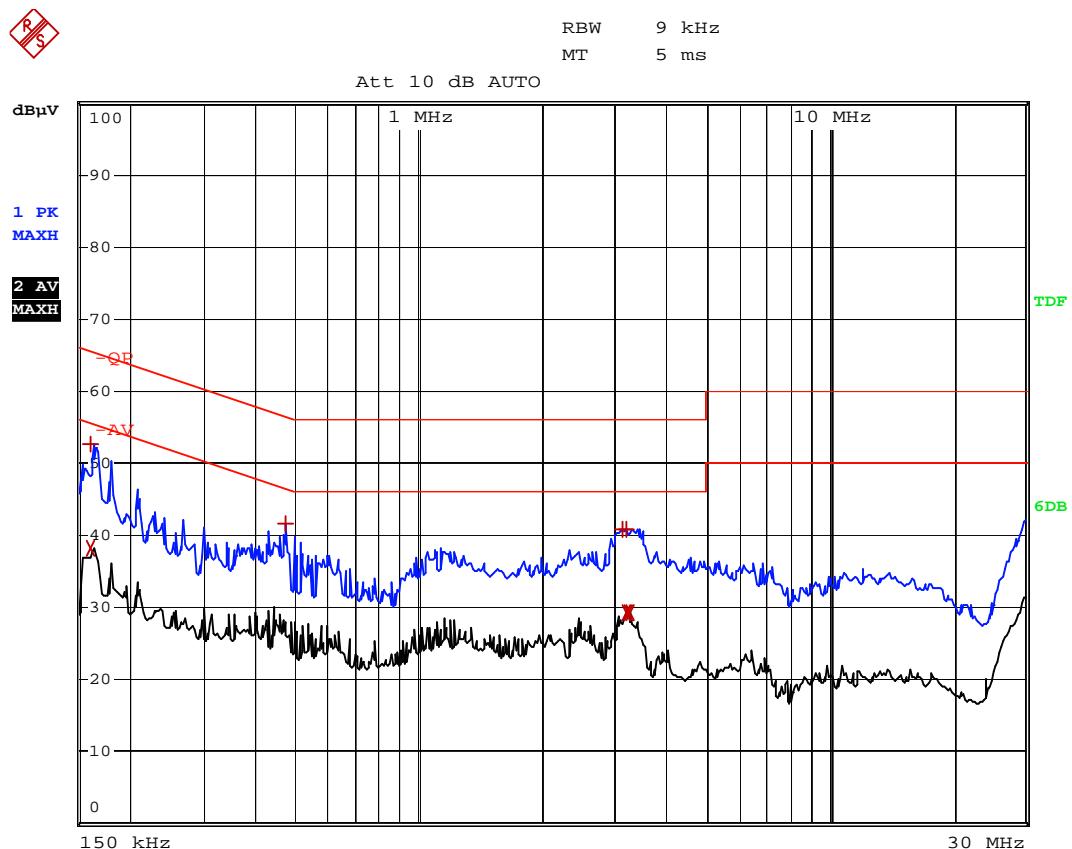
**-11.06 dB $\mu$ V at 0.158 MHz in the Line, Peak detector, 0.15-30MHz**

EUT: 2.4G Smart TX  
 M/N: LE-906  
 Operator: Amy  
 Test Specification: AC 120V/60Hz  
 Comment: Line



EDIT PEAK LIST (Prescan Results)				
Trace1:	-QP			
Trace2:	-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB $\mu$ V	DELTA	LIMIT dB
1 Max Peak	158 kHz	54.50	-11.06	
2 Average	158 kHz	38.31	-17.25	
1 Max Peak	174 kHz	49.26	-15.49	
1 Max Peak	3.242 MHz	41.23	-14.76	
2 Average	3.242 MHz	30.08	-15.91	
2 Average	3.286 MHz	30.05	-15.94	
1 Max Peak	3.374 MHz	40.89	-15.10	
2 Average	3.374 MHz	29.04	-16.95	

EUT: 2.4G Smart TX  
 M/N: LE-906  
 Operator: Amy  
 Test Specification: AC 120V/60Hz  
 Comment: Neutral



EDIT PEAK LIST (Prescan Results)				
Trace1:	-QP			
Trace2:	-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV	DELTA	LIMIT dB
1 Max Peak	162 kHz	52.56	-	-12.80
2 Average	162 kHz	38.31	-	-17.05
1 Max Peak	470 kHz	41.62	-	-14.89
1 Max Peak	3.138 MHz	40.85	-	-15.14
1 Max Peak	3.198 MHz	40.83	-	-15.16
2 Average	3.198 MHz	29.30	-	-16.69
2 Average	3.242 MHz	29.27	-	-16.72
2 Average	3.286 MHz	29.21	-	-16.79

## 6. §15.205, §15.209, §15.249 (a)- RADIATED EMISSION

### 6.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ±4.0 dB.

### 6.2 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

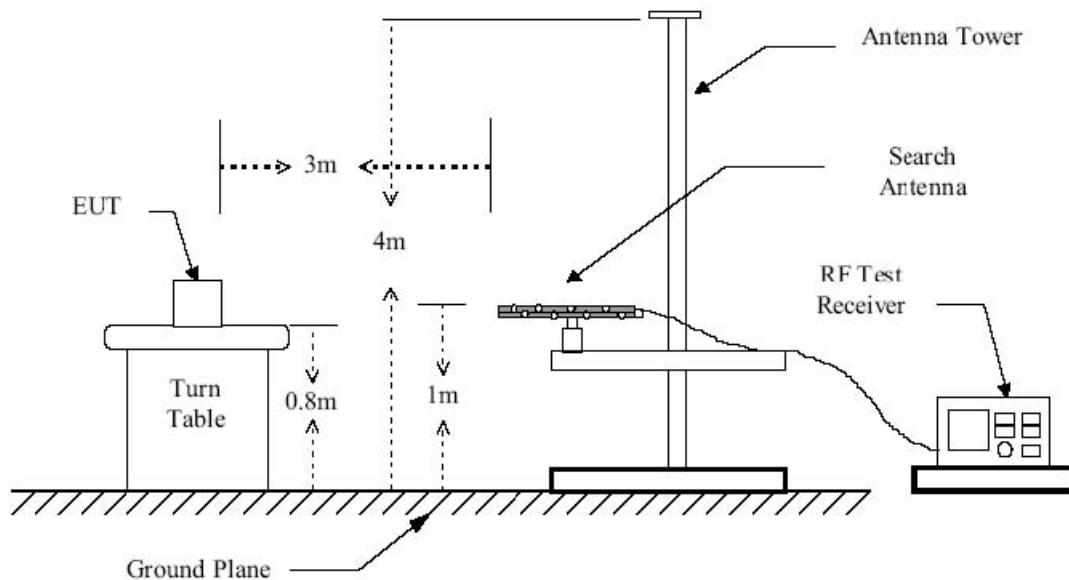
Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of fundamental (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 20 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

Emissions that fall in the restricted bands (15.205) must be less than 54dB<sub>UV</sub>/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

### 6.3 EUT Setup



## 6.4 Test Equipment List and Details

See section 2.4.

## 6.5 Test Procedure

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

## 6.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

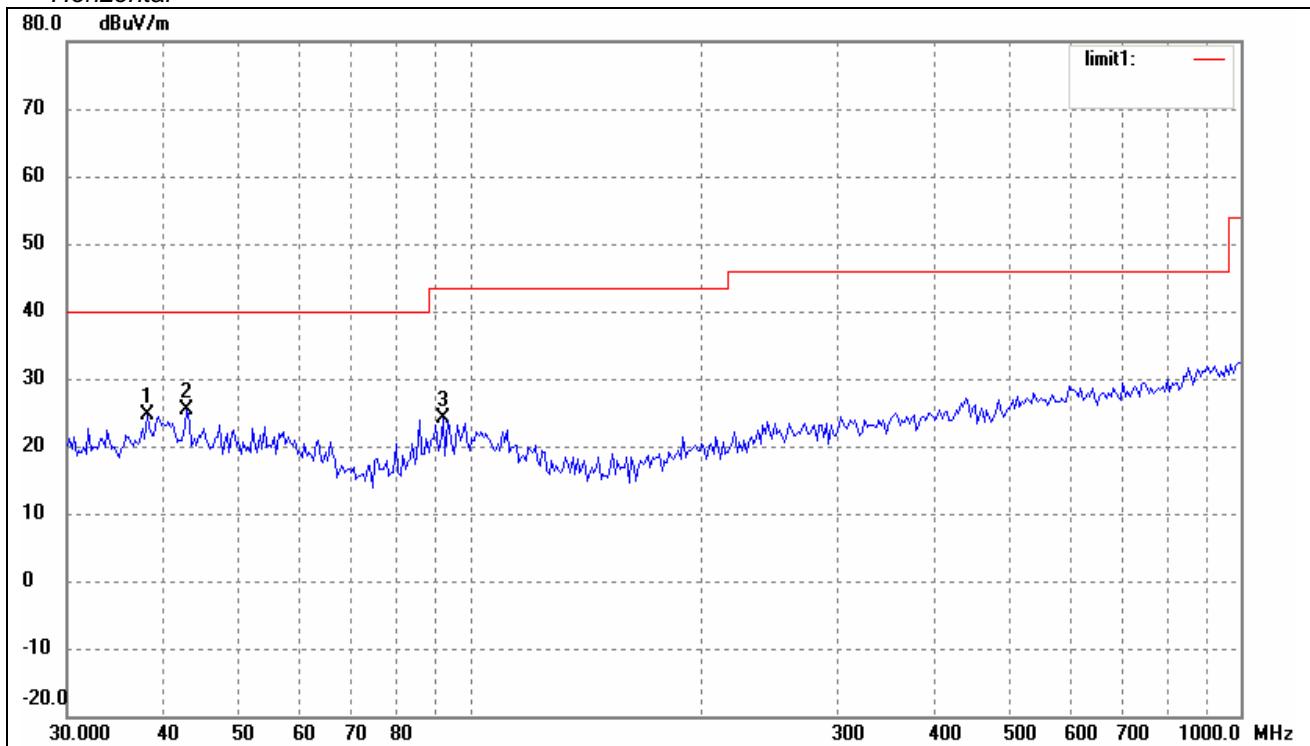
## 6.7 Test Result

According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst margin of:

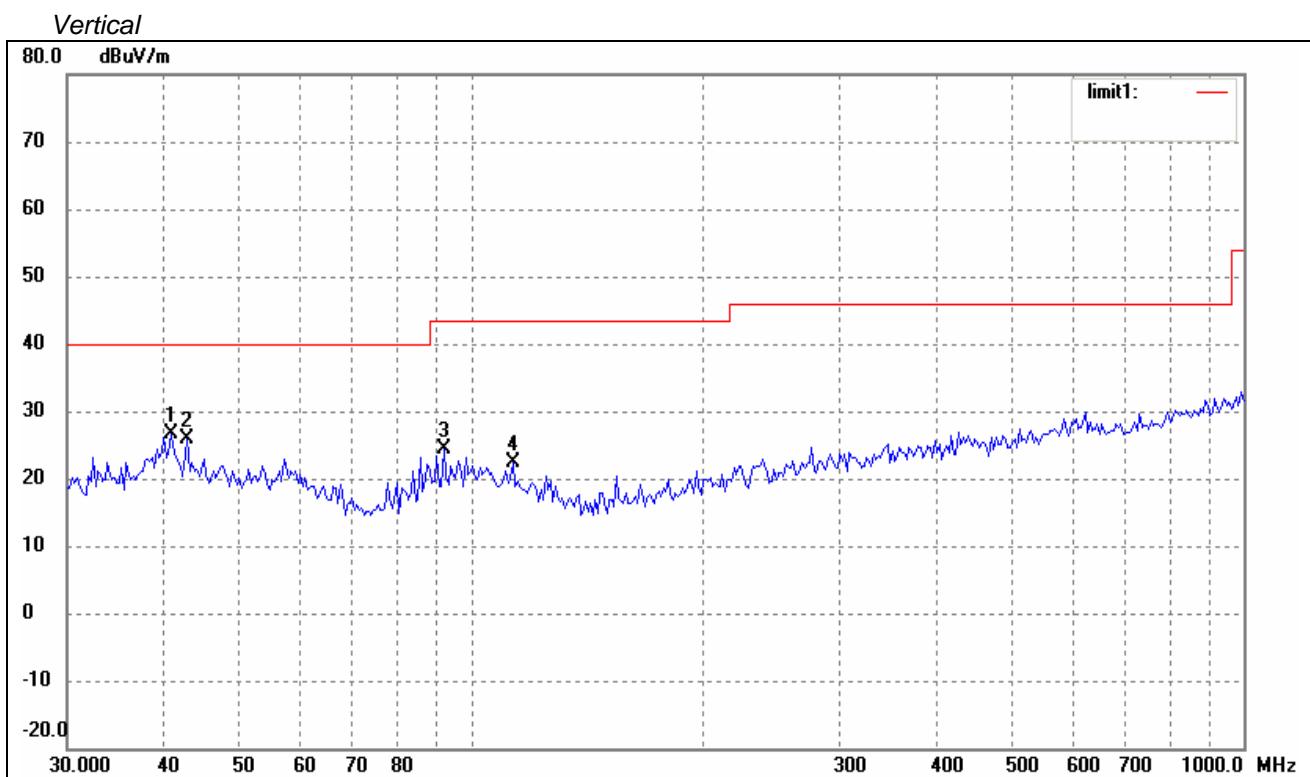
**-2.8 dB $\mu$ V at 7443.0 MHz in the Vertical polarization, 30 MHz to 25 GHz, 3Meters**

***Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.***

**Plot of Radiation Emissions Test**  
**Transmitting below 1GHz- Middle CH**  
**Horizontal**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	38.0965	17.24	7.42	24.66	40.00	-15.34	241	100	peak
2	42.9305	17.48	7.97	25.45	40.00	-14.55	220	100	peak
3	92.3462	17.23	6.97	24.20	43.50	-19.30	34	100	peak



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	40.8699	18.72	7.94	26.66	40.00	-13.34	125	100	peak
2	42.9305	17.89	7.97	25.86	40.00	-14.14	15	100	peak
3	92.3462	17.51	6.97	24.48	43.50	-19.02	57	100	peak
4	113.2200	16.02	6.40	22.42	43.50	-21.08	146	100	peak

### Spurious Emission Above 1GHz

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low CH										
4866.0	AV	33.1	147	H	34.1	5.2	33.0	39.4	54	-14.6
4866.0	AV	35.9	90	V	34.1	5.2	33.0	42.2	54	-11.8
4866.0	PK	39.8	147	H	37.4	6.1	33.5	49.8	74	-24.2
4866.0	PK	42.1	90	V	37.4	6.1	33.5	52.1	74	-21.9
7299.0	AV	42.2	185	H	29.1	3.7	34.0	41.0	54	-13.0
7299.0	AV	45.7	56	V	29.1	3.7	34.0	44.5	54	-9.5
7299.0	PK	50.0	185	H	37.4	6.1	33.5	60.0	74	-14.0
7299.0	PK	61.5	56	V	34.1	5.2	33.0	67.8	74	-6.2
2433.0	AV	61.1	185	H	34.1	5.2	33.0	67.4	94	-26.6
2433.0	AV	65.0	56	V	37.4	6.1	33.5	75.0	94	-19.0
2433.0	PK	98.0	185	H	29.1	3.7	34.0	96.8	114	-17.2
2433.0	PK	105.7	56	V	29.1	3.7	34.0	104.5	114	-9.5
Middle CH										
4914.0	AV	32.4	333	H	34.1	5.2	33.0	38.7	54	-15.3
4914.0	AV	35.2	43	V	34.1	5.2	33.0	41.5	54	-12.5
4914.0	PK	45.2	333	H	37.4	6.1	33.5	55.2	74	-18.8
4914.0	PK	47.4	43	V	37.4	6.1	33.5	57.4	74	-16.6
7371.0	AV	42.5	45	H	29.1	3.7	34.0	41.3	54	-12.7
7371.0	AV	46.4	44	V	29.1	3.7	34.0	45.2	54	-8.8
7371.0	PK	53.5	45	H	37.4	6.1	33.5	63.5	74	-10.5
7371.0	PK	57.8	44	V	37.4	6.1	33.5	67.8	74	-6.2
2457.0	AV	63.1	270	H	34.1	5.2	33.0	69.4	94	-24.6
2457.0	AV	70.8	45	V	34.1	5.2	33.0	77.1	94	-16.9
2457.0	PK	98.7	270	H	29.1	3.7	34.0	97.5	114	-16.5
2457.0	PK	104.2	45	V	29.1	3.7	34.0	103.0	114	-11.0
High CH										
4962.0	AV	27.5	0	H	37.4	6.1	33.5	37.5	54	-16.5
4962.0	AV	33.1	63	V	37.4	6.1	33.5	43.1	54	-10.9
4962.0	PK	48.7	0	V	34.1	5.2	33.0	55.0	74	-19.0
4962.0	PK	53.2	63	H	34.1	5.2	33.0	59.5	74	-14.5
7443.0	AV	46.0	359	H	29.1	3.7	34.0	44.8	54	-9.2
7443.0	AV	52.4	95	V	29.1	3.7	34.0	51.2	54	-2.8
7443.0	PK	59.1	359	H	34.1	5.2	33.0	65.4	74	-8.6
7443.0	PK	61.7	95	V	34.1	5.2	33.0	68.0	74	-6.0
2481.0	AV	68.4	95	V	37.4	6.1	33.5	78.4	94	-15.6
2481.0	AV	72.0	359	H	37.4	6.1	33.5	82.0	94	-12.0
2481.0	PK	99.9	95	H	29.1	3.7	34.0	98.7	114	-15.3
2481.0	PK	103.6	359	V	29.1	3.7	34.0	102.4	114	-11.6

Note: Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 4th Harmonics is close to the noise base even antenna close up to 1meter distance according the measurement of ANSI C63.4. Emissions 20dB lower than the limit are not reported.

## 7. §15.249(b) OUT OF BAND EMISSIONS

### 7.1 Limits of bandedge Measurement

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### 7.2 Test Equipment List and Details

See section 2.4.

### 7.3 Test Procedure

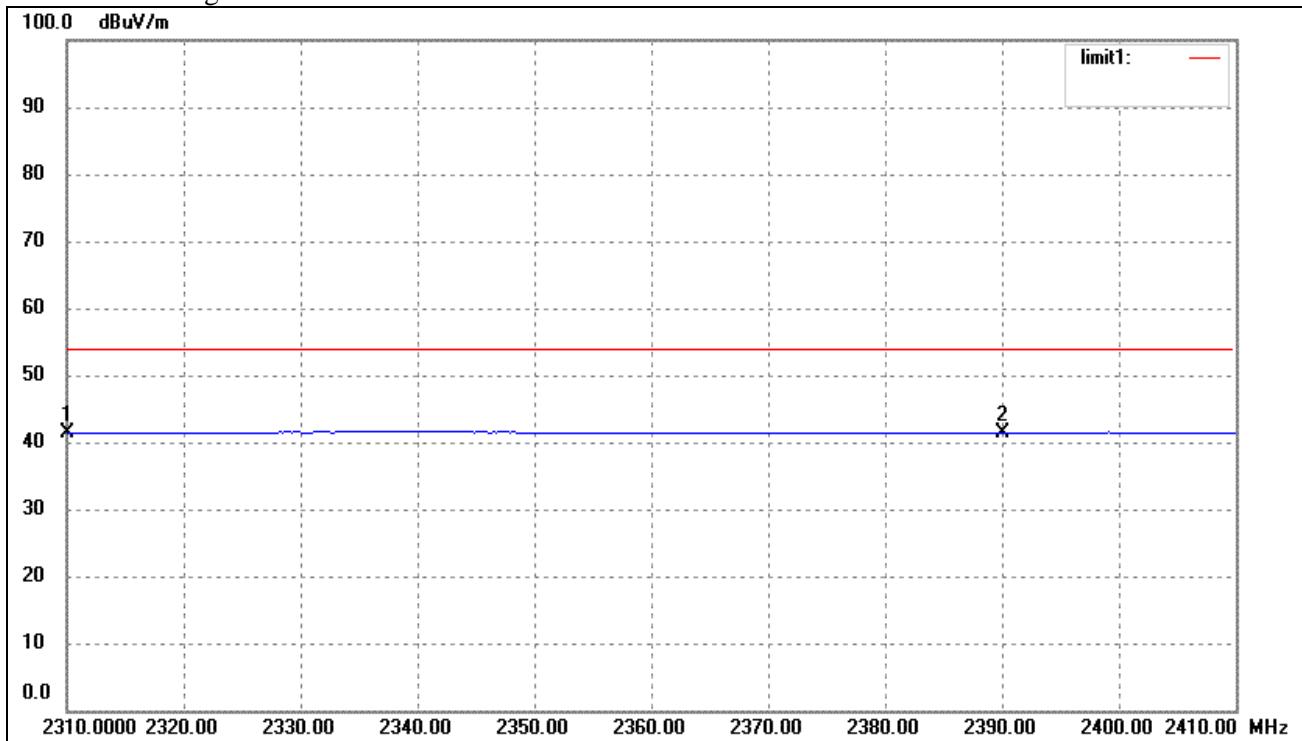
As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

### 7.4 Test Result /Plots

Frequency MHz	Limit dBuv	Result
Low Edge	<54	Pass
High Edge	<54	Pass

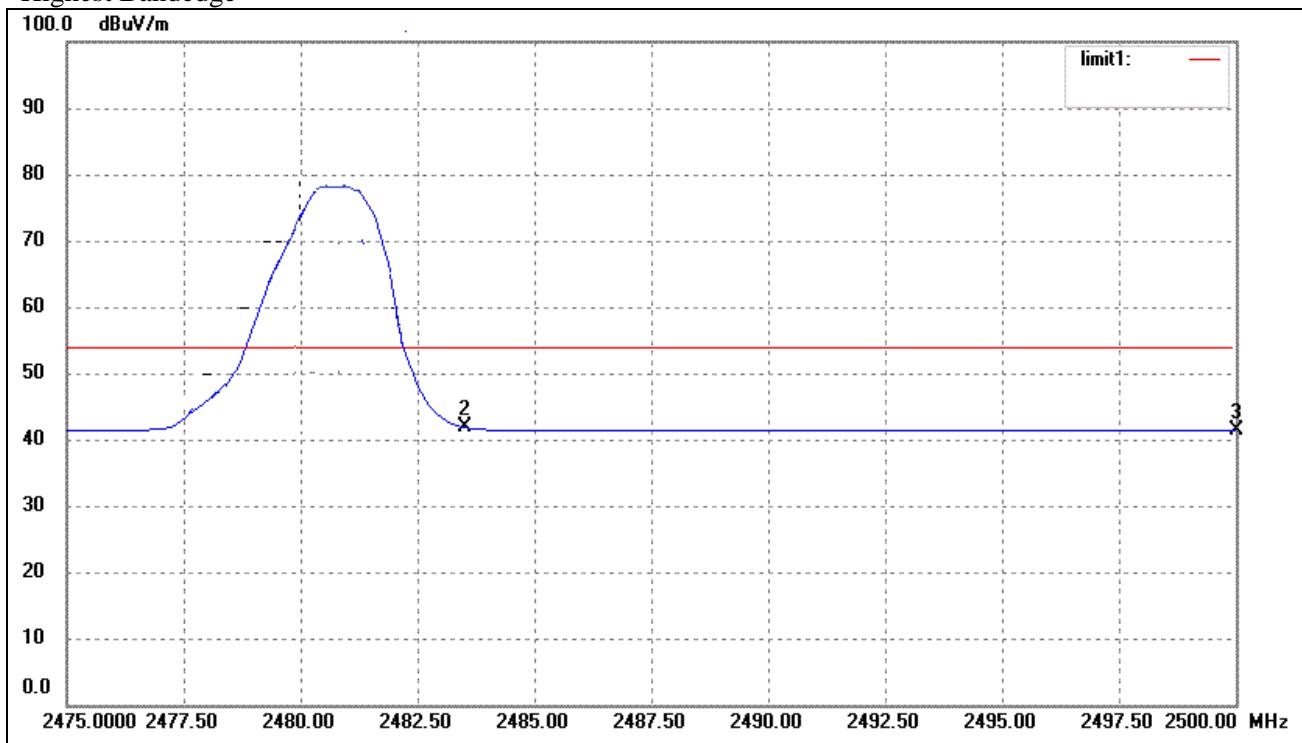
The edge emissions are below the FCC 15.209 Limits. Please refer to the test plots below.

Lowest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	9.18	32.30	41.47	54.00	-12.53	AVE
	2310.000	14.27	32.30	46.58	74.00	-27.42	peak
2	2390.000	8.92	32.42	41.44	54.00	-12.56	AVE
	2390.000	14.37	32.42	46.79	74.00	-27.21	peak

## Highest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	9.24	32.57	41.84	54.00	-12.16	AVE
	2483.500	18.79	32.57	51.36	74.00	-22.64	peak
2	2500.000	8.79	32.60	41.38	54.00	-12.62	AVE
	2500.000	14.92	32.60	47.56	74.00	-26.44	peak