FCC TEST REPORT

for

47 CFR Part 15 Subpart C

Equipment	:	**GAMECUBE 2.4G Wireless Controller**
Trade Name	:	**Hip Gear**
Model No.	:	**LM610**
FCC ID.	:	**RNIC348610-H**
Filing Type	:	**Certification**
Applicant	:	**Esel International Co. Ltd.** Rm 15-17, 5/F, Cardinal Ind, Bldg. No. 17 On Lok Mun St., Fanling, N.T., Hong Kong

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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History of this test report

Original Report Issue Date: June 18, 2004

■ No additional attachment.

☐ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

Certificate No. : F460202-A

CERTIFICATE OF COMPLIANCE

for

47 CFR Part 15 Subpart C

Equipment : **GAMECUBE 2.4G Wireless Controller**

Trade Name : **Hip Gear**

Model No. : **LM610**

FCC ID. : **RNIC348610-H**

Filing Type : **Certification**

Applicant : **Esel International Co. Ltd.**
Rm 15-17, 5/F, Cardinal Ind, Bldg. No. 17 On Lok Mun St.,
Fanling, N.T., Hong Kong

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 - 2001** and the equipment under test was ***passed*** all test items required in FCC Part 15 subpart C, relative to the equipment under test. Testing was carried out on June 15, 2004 at **SPORTON International Inc.** LAB.

Daniel Lee 6/13/2004

Daniel Lee
Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

1. General Description of Equipment under Test

1.1. Applicant

Esel International Co. Ltd.
Rm 15-17, 5/F, Cardinal Ind, Bldg. No. 17 On Lok Mun St., Fanling, N.T., Hong Kong

1.2. Manufacturer

Eastern Sources Electronics Manufacturer
Daji Industrial Zone, Hengshan District, Shipai Town, Dongguan City, Guangdong, China

1.3. Basic Description of Equipment under Test

Equipment	: GAMECUBE 2.4G Wireless Controller
Trade Name	: Hip Gear
Model No.	: LM610
FCC ID	: RNIC348610-H
Power Supply Type	: DC 6V

1.4. Feature of Equipment under Test

Product Feature & Specification				
1. Type of Modulation	GFSK			
2. Frequency Band	2.400GHz ~ 2.4835GHz			
3. Carrier Frequency of each channel	2402MHz+n*MHz, n=0 ~ 79			
4. Bandwidth of each channel	1MHz			
5. Maximum Output Power to Antenna	4.82 dBm			
6. IF & L.O. frequency	N/A			
7. Type of Antenna Connector	On Board Antenna			
8. Antenna Type	PCB antenna			
9. Antenna Gain	-3 dBi			
10. Function Type	Transmitter		Transceiver	V
11. Power Rating (DC/AC , Voltage)	Host: DC 5V/3.5 V, Device: DC 4.4~6.0 V			
12. Temperature Range (Operating)	0°C to + 50°C			

2. Test Configuration of Equipment under Test

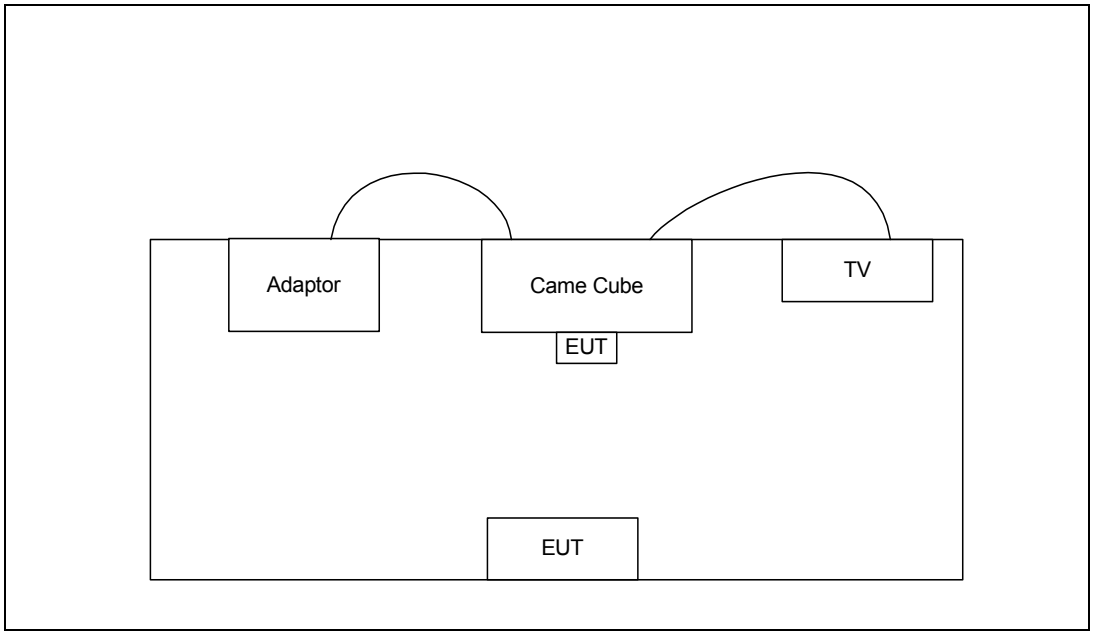
2.1. Test Manner

a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2001 and configuration operated in a manner, which tended to maximize its emission characteristics in a typical application.
b. The complete test system included JVC TV EUT for EMI test.
c. The following test modes were tested for conduction test:
   Mode 1: Operating
d. The following test modes were tested for radiation test:
   Mode 1: Host TX 2402MHz (CH00)
   Mode 2: Host TX 2441MHz (CH39)
   Mode 3: Host TX 2480MHz (CH78)
e. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 25000MHz.

2.2. Description of Test System

Item	Asset	Model Name	Power Cord	S/N
1.	TV (JVC)	TM-1700PN	N/A	SP0020

2.3. Connection Diagram of Test System



3. Operation of Equipment under Test

The EUT is in Firmware controlled by Host (Transceiver).
There is no other test software in the testing.

4. General Information of Test

Test Site Location	:	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiag, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
Test Site No	:	CO01-HY, 03CH03-HY

4.1. Test Voltage

110V/60Hz

4.2. Standard for Methods of Measurement

ANSI C63.4-2001

4.3. Test in Compliance with

47 CFR Part 15 Subpart C

4.4. Frequency Range Investigated

Conduction: from 150 KHz to 30 MHz
Radiation: from 30 MHz to 25000MHz

4.5. Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.

5. Report of Measurements and Examinations

5.1. List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.247(a)(1)	Hopping Channel Bandwidth	Pass
15.247(a)(1)	Hopping Channel Separation	Pass
15.247(a)(1)(iii)	Number of Hopping Frequency Used	Pass
15.247(a)(1)(iii)	Dwell Time of Each Frequency within a 30 Second Period	Pass
15.247(b)(1)	Output Power	Pass
15.247(c)	100KHz Bandwidth of Frequency Band Edges	Pass
15.207	Conducted Emission	Pass
15.209	Radiated Emission	Pass
15.203 15.247(B)(4)	Antenna Requirement	Pass
1.1307 2.1091	RF Exposure	Pass

5.2. Hopping Channel Separation

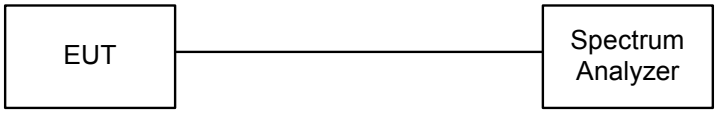
5.2.1. Measuring Instruments：

As described in chapter 8 of this test report.

5.2.2. Test Procedure：

1. The transmitter output was connected to the spectrum analyze directly.
2. Set RBW of spectrum analyzer to 30kHz and VBW to 100kHz.
3. The Hopping Channel Separation is defined as the channel is separated with the next channel.

5.2.3. Test Setup Layout：



5.2.4. Test Result：The spectrum analyzer plots are attached as below

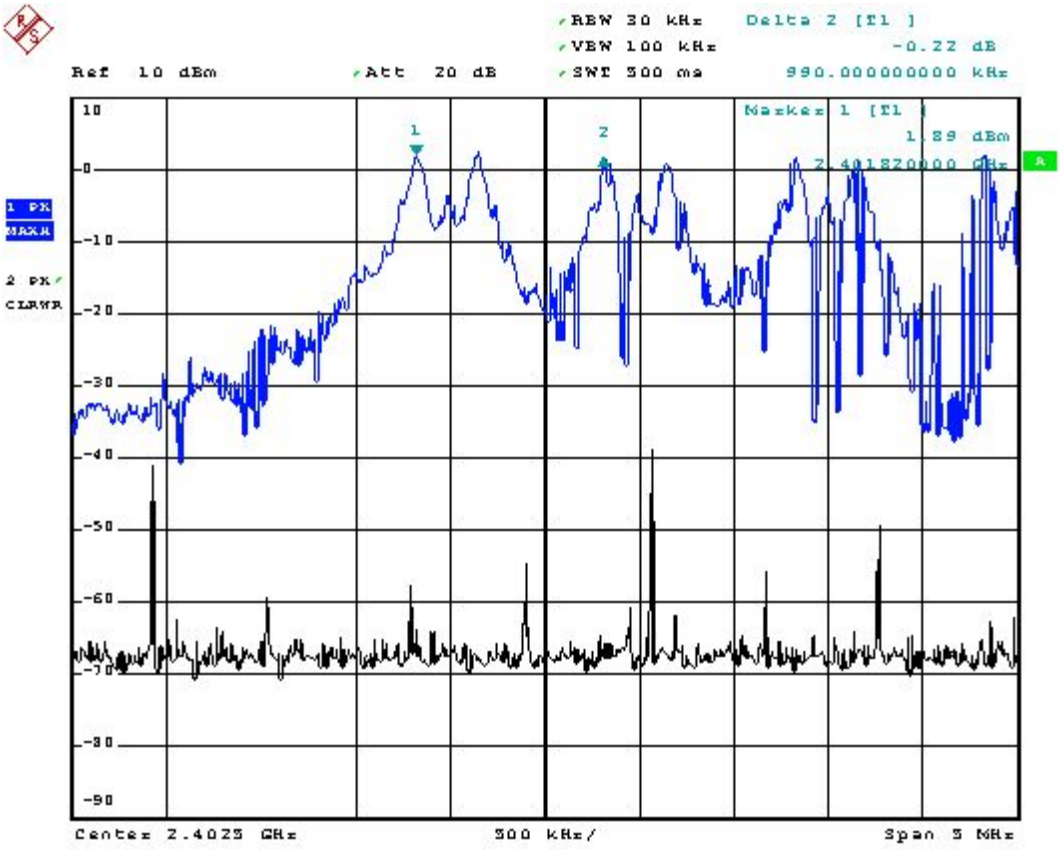
- Test Mode: Mode 1~Mode 3
- Temperature: 26°C
- Relative Humidity: 53%

Channel	Frequency (MHz)	Hopping Channel Separation (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	0.990	0.96	Mode 1
39	2441	1.010	0.97	Mode 2
78	2480	1.000	0.99	Mode 3

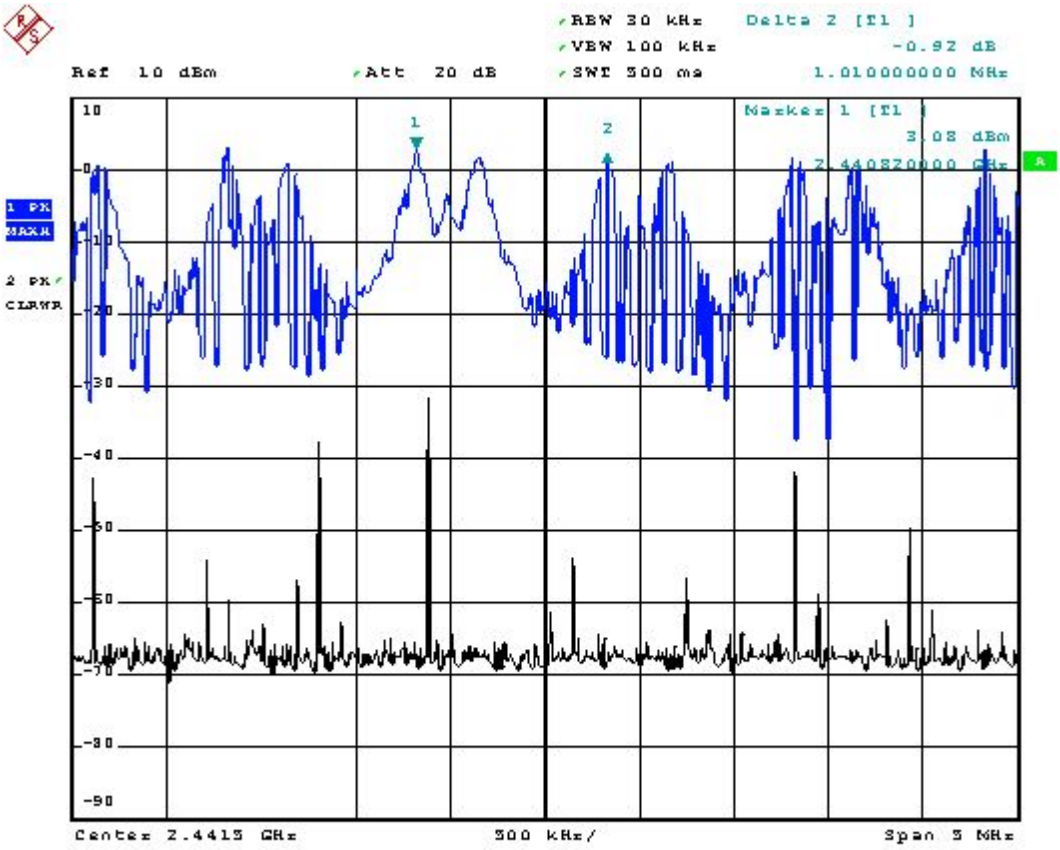
Remark: Limit is the greater one of 25kHz or the 20dB bandwidth of the hopping channel.

5.2.5 Hopping Channel Separation

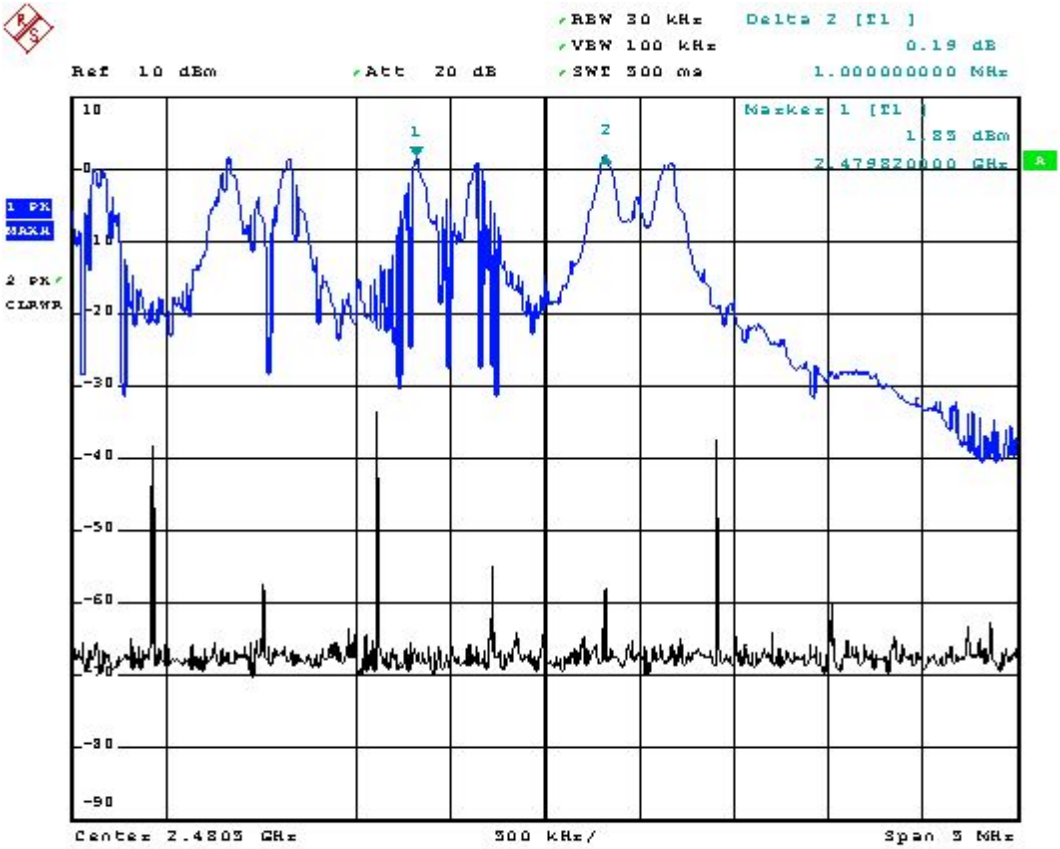
Mode 1: CH00 (2402MHz)



Mode 2: CH39 (2441MHz)



Mode 3: CH78 (2480MHz)



5.3. Number of Hopping Frequency

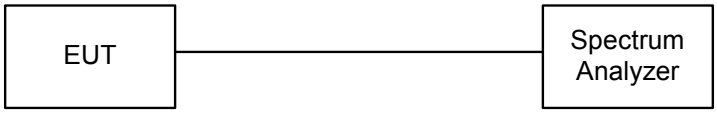
5.3.1. Measuring Instruments：

As described in chapter 8 of this test report.

5.3.2. Test Procedure：

1. The transmitter output was connected to the spectrum analyze directly.
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. The number of hopping frequency used is defined as the device has the numbers of total channel.

5.3.3. Test Setup Layout：

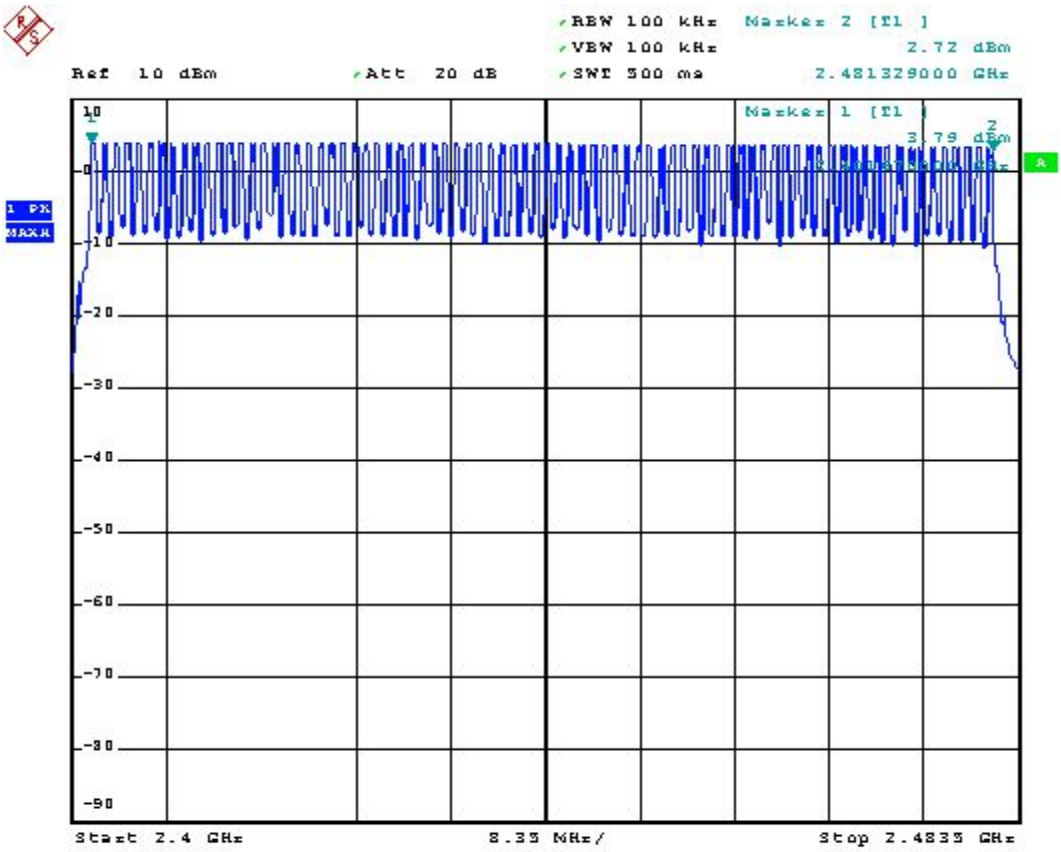


5.3.4. Test Result：See spectrum analyzer plots below

- Temperature: 26°C
- Relative Humidity: 53%

Number of Hopping Frequency (Channel)	Limits (Channel)
79	75

5.3.5 Number of Hopping Frequency



5.4 Hopping Channel Bandwidth

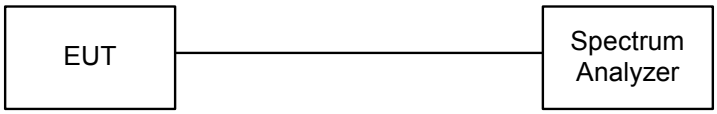
5.4.1 Measuring Instruments：

As described in chapter 8 of this test report.

5.4.2 Test Procedure：

1. The transmitter output was connected to the spectrum analyzer directly.
2. Set RBW of spectrum analyzer to 30kHz and VBW to 300kHz.
3. The Hopping Channel bandwidth is defined as the frequency range where the power is higher than peak power minus 20dB.

5.4.3 Test Setup Layout：



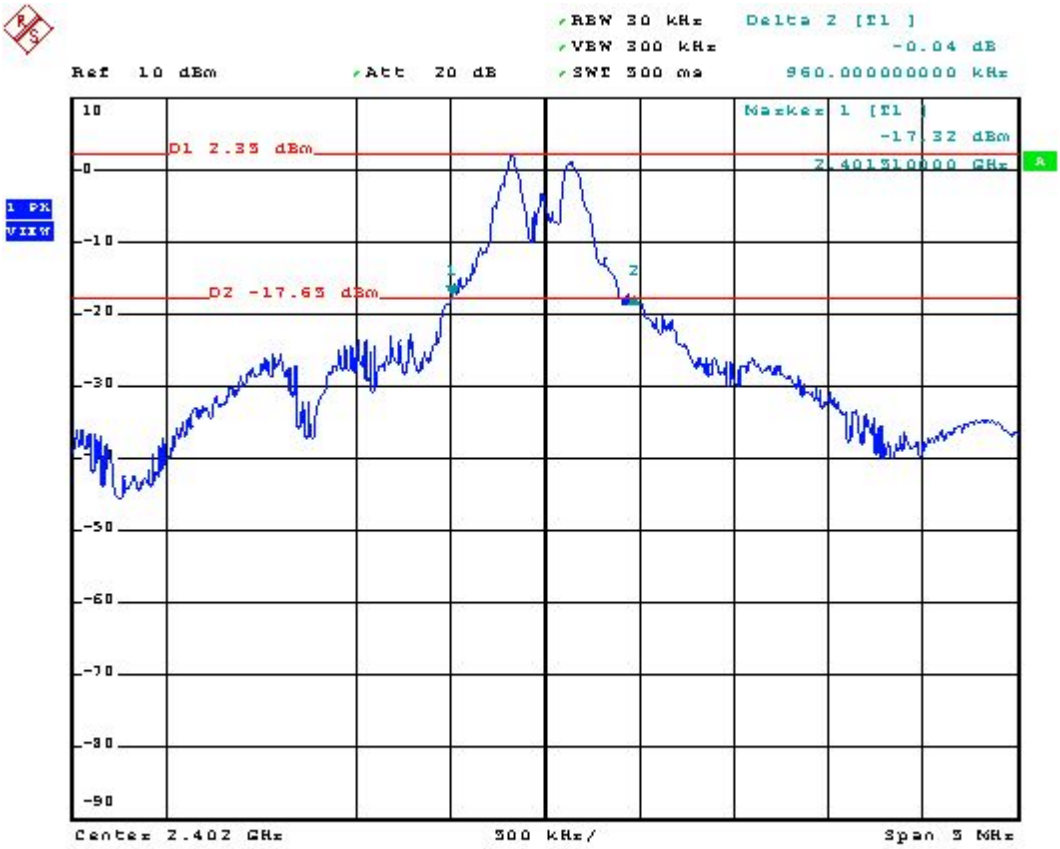
5.4.4 Test Result：See spectrum analyzer plots below

- Test Mode: Mode 1~Mode 3
- Temperature: 26°C
- Relative Humidity: 53%

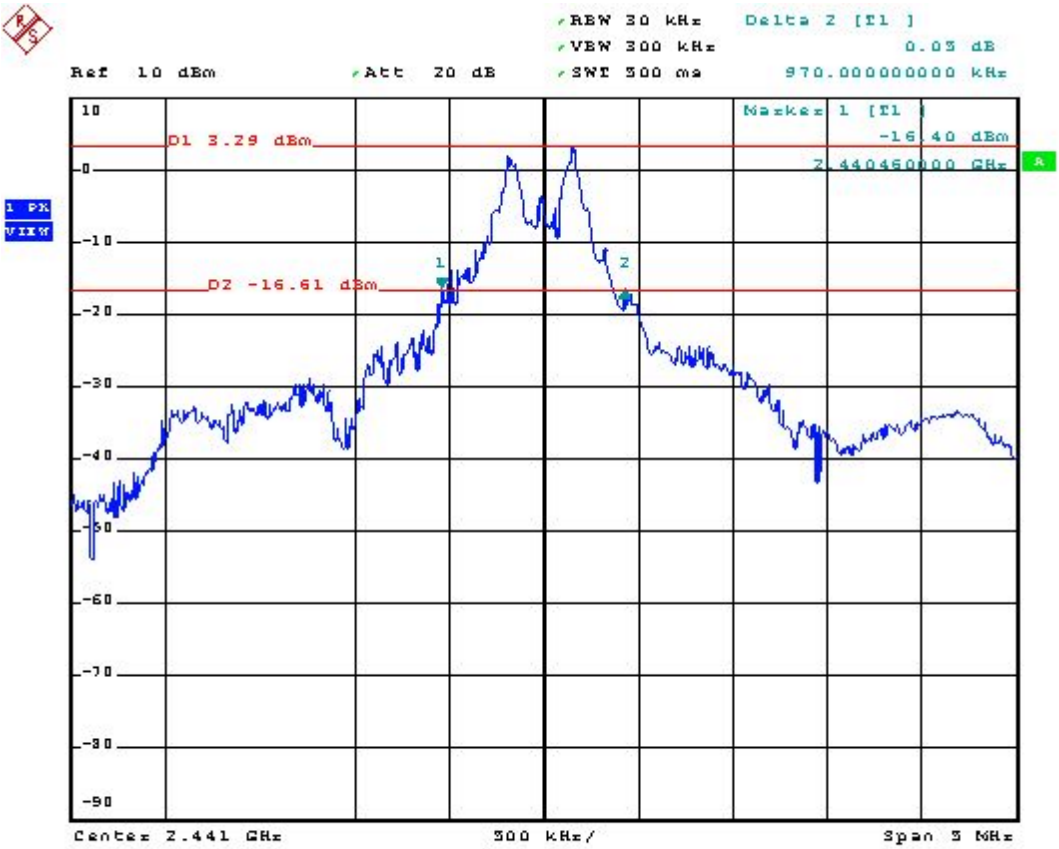
Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	0.960	1.0	Mode 1
39	2441	0.970	1.0	Mode 2
78	2480	0.990	1.0	Mode 3

5.4.5 Hopping Channel Bandwidth

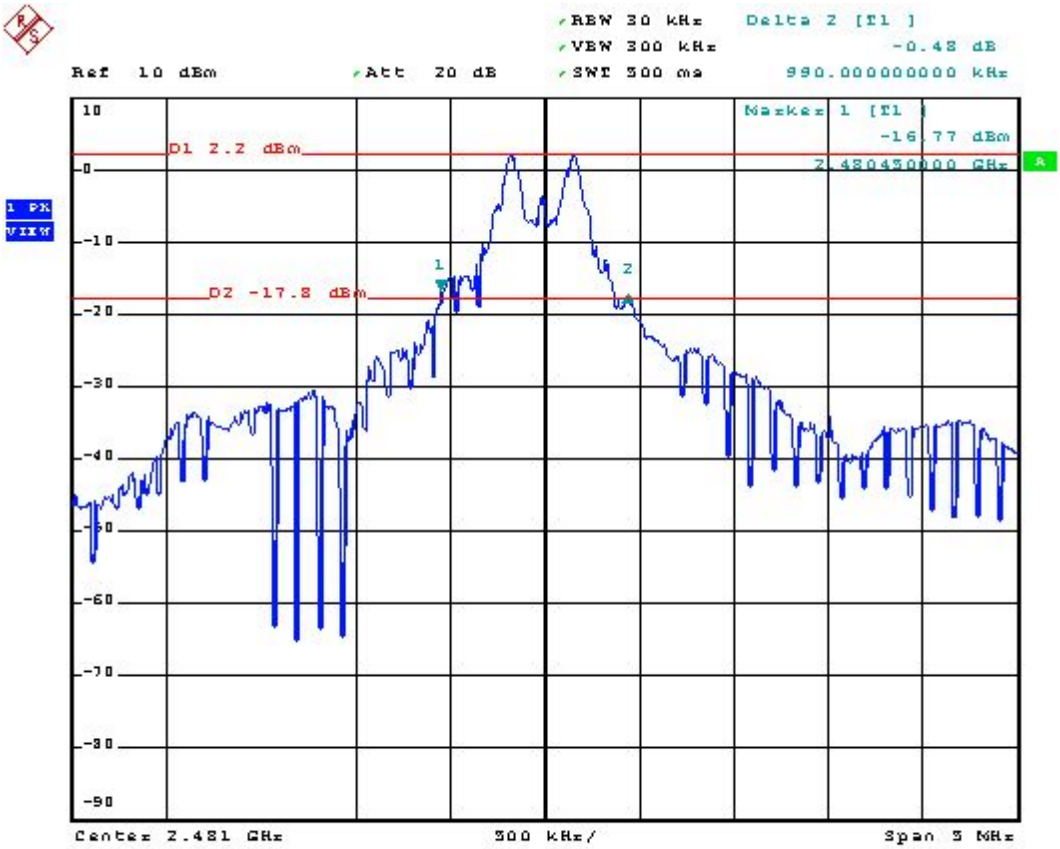
Mode 1: CH00 (2402MHz)



Mode 2: CH39 (2441MHz)



Mode 3: CH78 (2480MHz)



5.5 Dwell Time of Each Frequency within a 30 Seconds Period

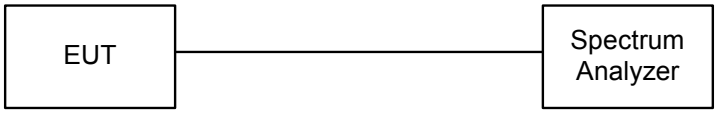
5.5.1 Measuring Instruments：

As described in chapter 8 of this test report.

5.5.2 Test Procedure：

1. The transmitter output was connected to the spectrum analyzer directly.
2. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
3. Set the center frequency on any frequency would be measured and set the frequency span to zero span.
4. The calculate =0.4*79*((1/0.12)/80) * t (t = the time duration of one single pulse)

5.5.3 Test Setup Layout：



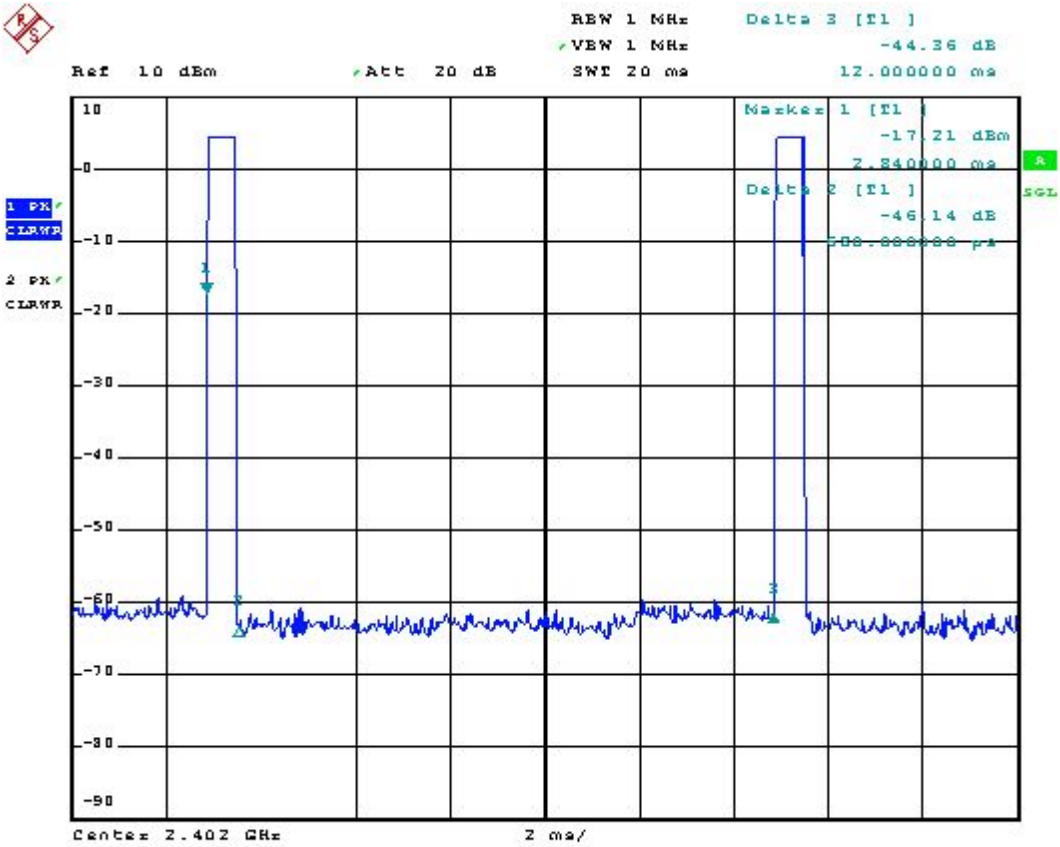
5.5.4 Test Result：See spectrum analyzer plots below

- Test Mode: Mode 1~Mode 3
- Temperature: 26°C
- Relative Humidity: 53%

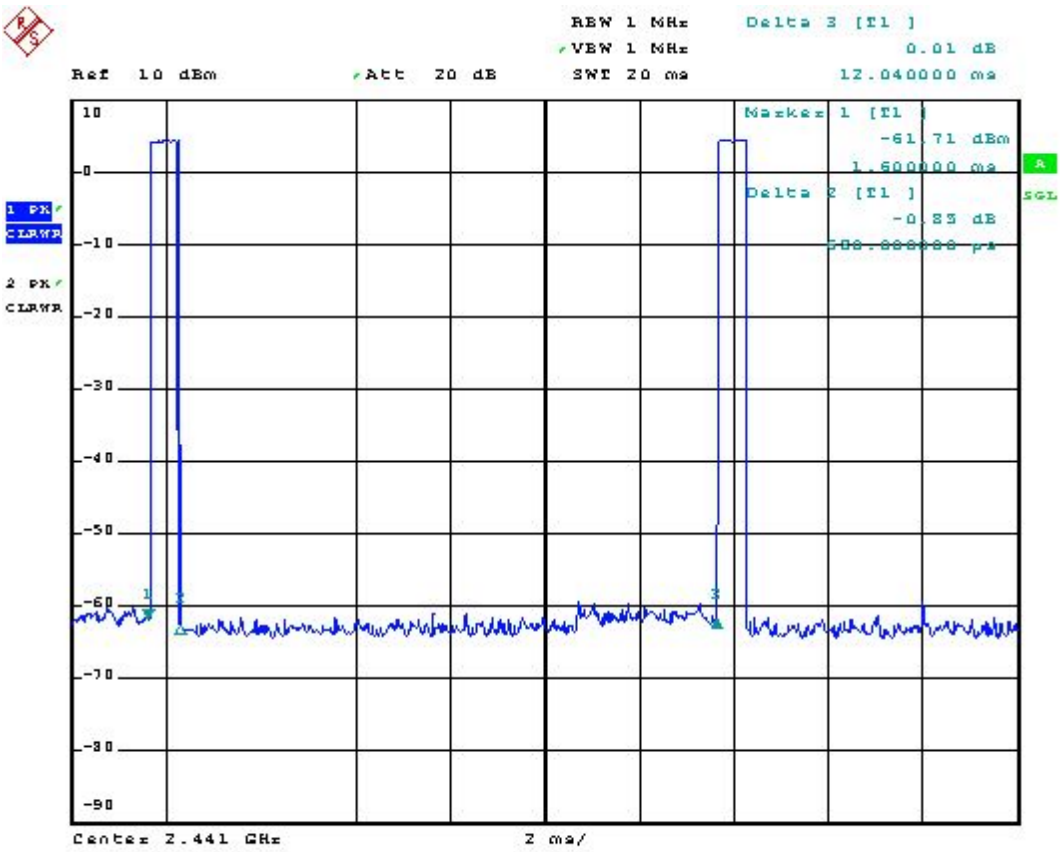
Channel	Frequency (MHz)	Dwell Time (s)	Limits (s)	Plot Ref. No.
00	2402	0.002238333	0.4	Mode 1
39	2441	0.002238333	0.4	Mode 2
78	2480	0.00237	0.4	Mode 3

5.5.5 Dwell Time of Each Frequency

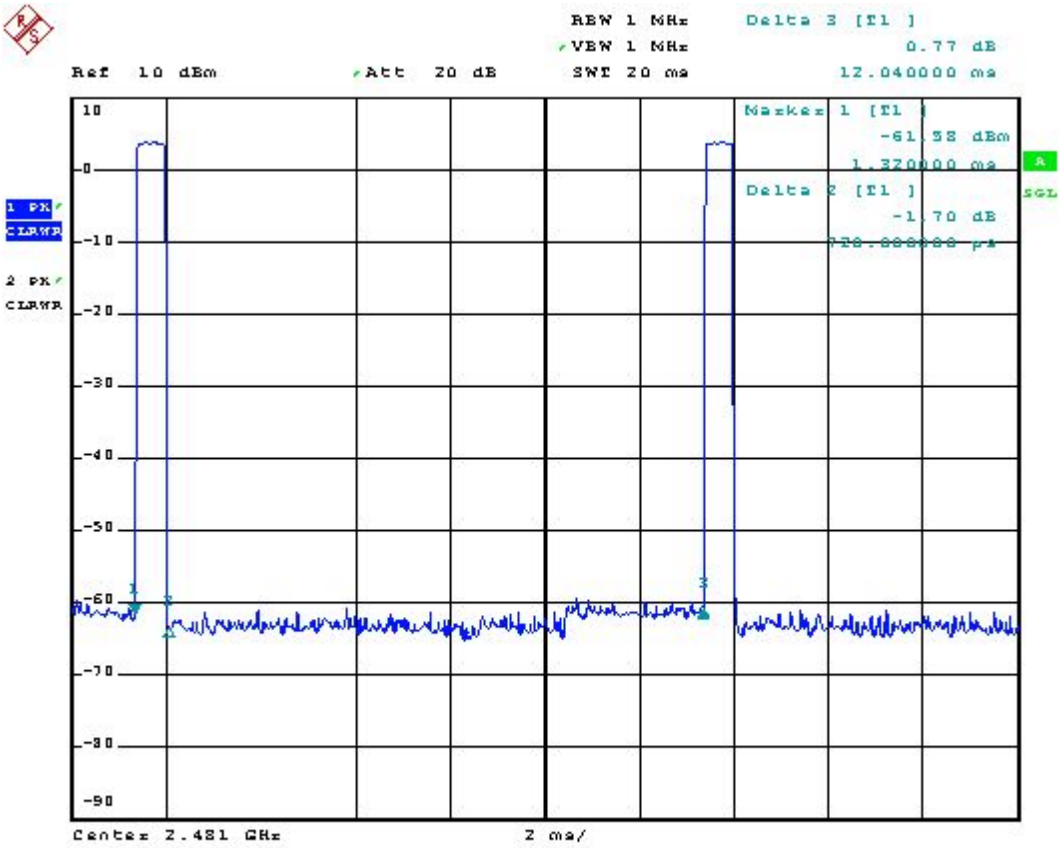
Mode 1: CH00 (2402MHz)



Mode 2: CH39 (2441MHz)



Mode 3: CH78 (2480MHz)



5.6 Output Power

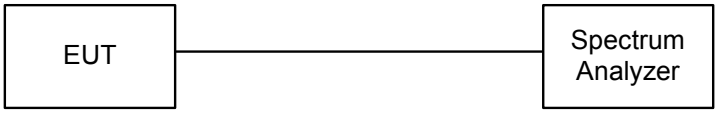
5.6.1 Measuring Instruments：

As described in chapter 8 of this test report.

5.6.2 Test Procedure：

1. The transmitter output was connected to the spectrum analyzer directly.
2. The center frequency of the spectrum analyzer was set to the fundamental frequency and set RBW to 3MHz and VBW to 3MHz.

5.6.3 Test Setup Layout：



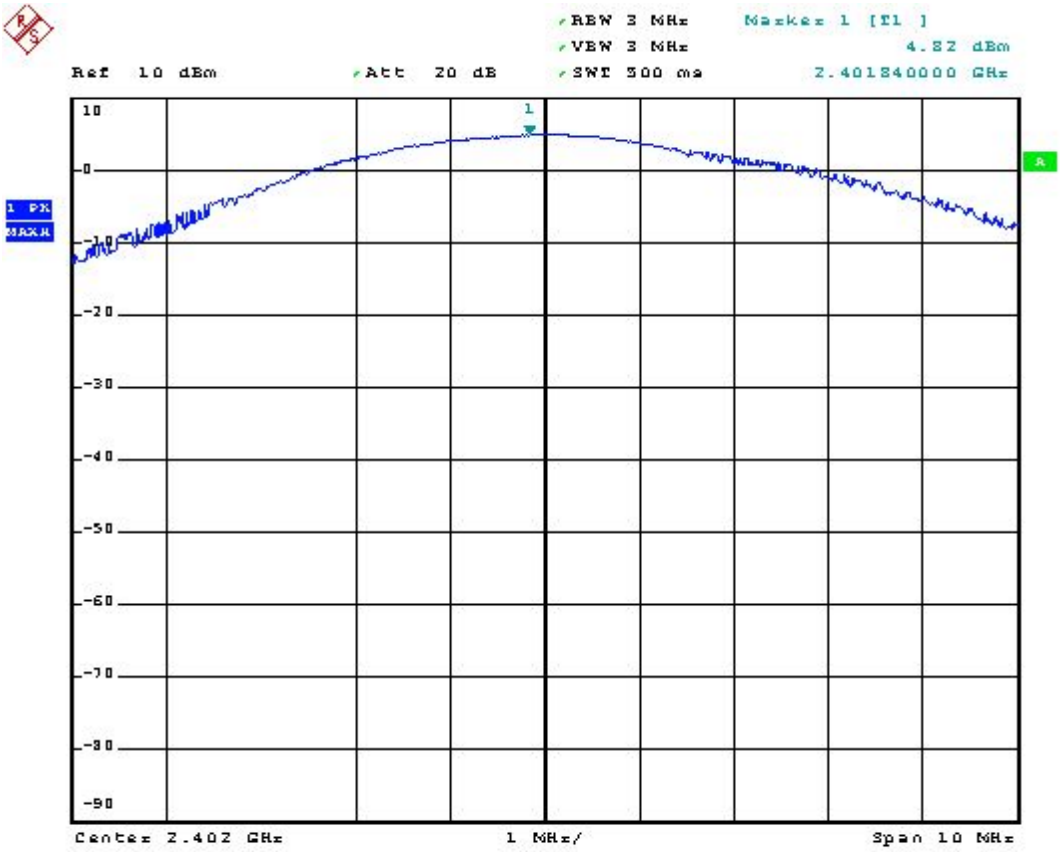
5.6.4 Test Result：See spectrum analyzer plots below

- Test Mode: Mode 1~Mode 3
- Temperature: 26°C
- Relative Humidity: 53%

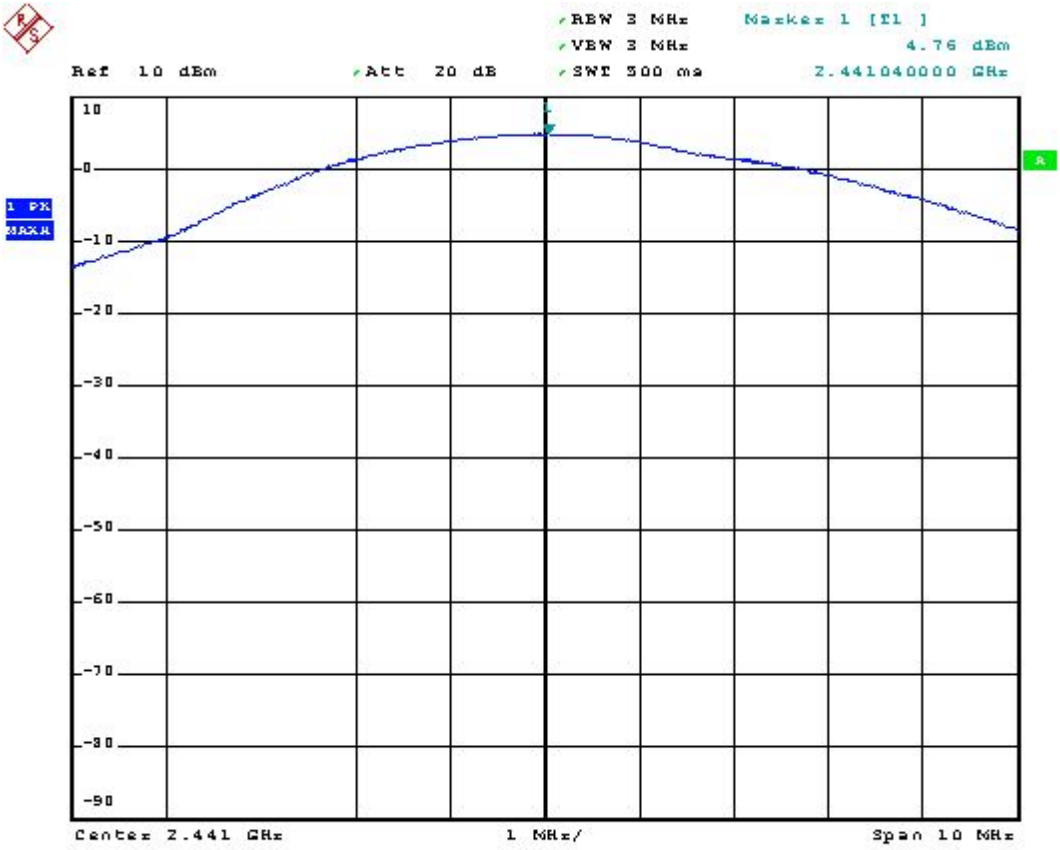
Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)	Plot Ref. No.
00	2402	4.82	1W/30 dBm	Mode 1
39	2441	4.76	1W/30 dBm	Mode 2
78	2480	4.26	1W/30 dBm	Mode 3

5.6.5 Output Power

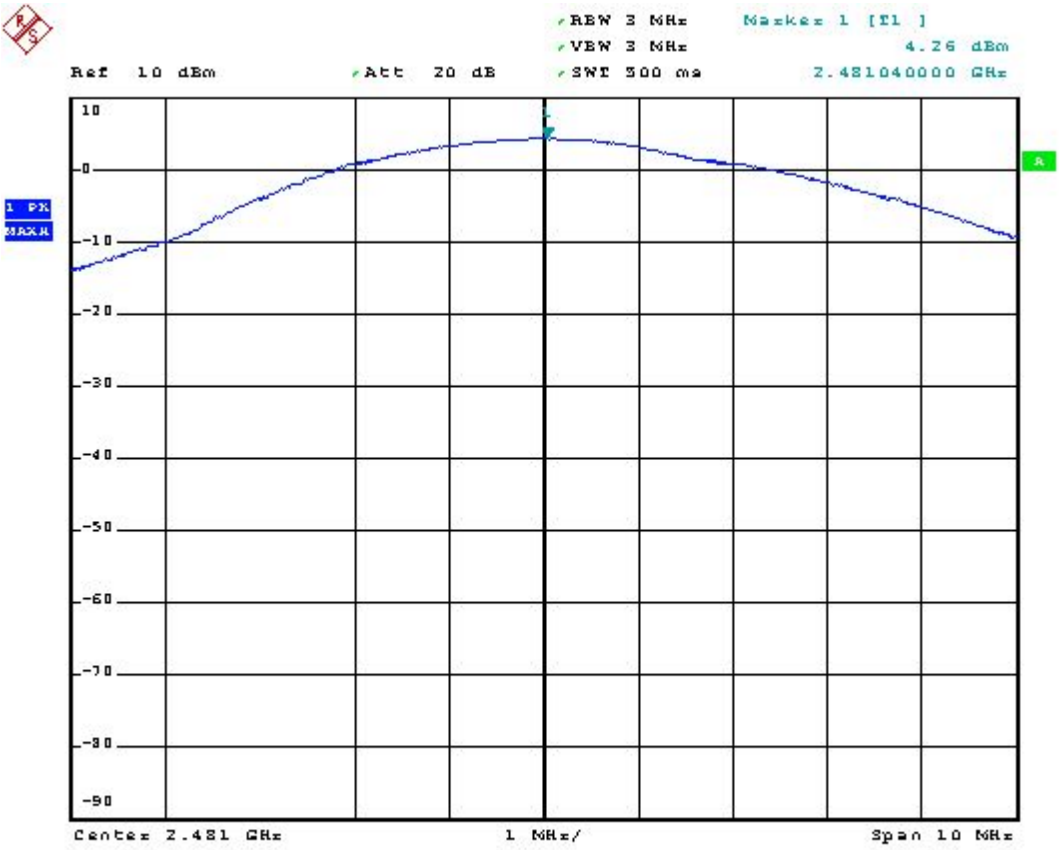
Mode 1: CH00 (2402MHz)



Mode 2: CH39 (2441MHz)



Mode 3: CH78 (2480MHz)



5.7 100KHz Bandwidth of Frequency Band Edges

5.7.1 Measuring Instruments：

As described in chapter 10 of this test report.

5.7.2 Test Procedure：

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 KHz bandwidth from band edge.
3. The band edges was measured and recorded.

5.7.3 Test Result：

- Test Mode: Mode 1 and Mode 3
- Temperature: 26°C
- Relative Humidity: 53%

Test Result in lower band (Channel 00)： PASS

Test Result in higher band(Channel 78)： PASS

5.7.4 Note on Band edge Emission

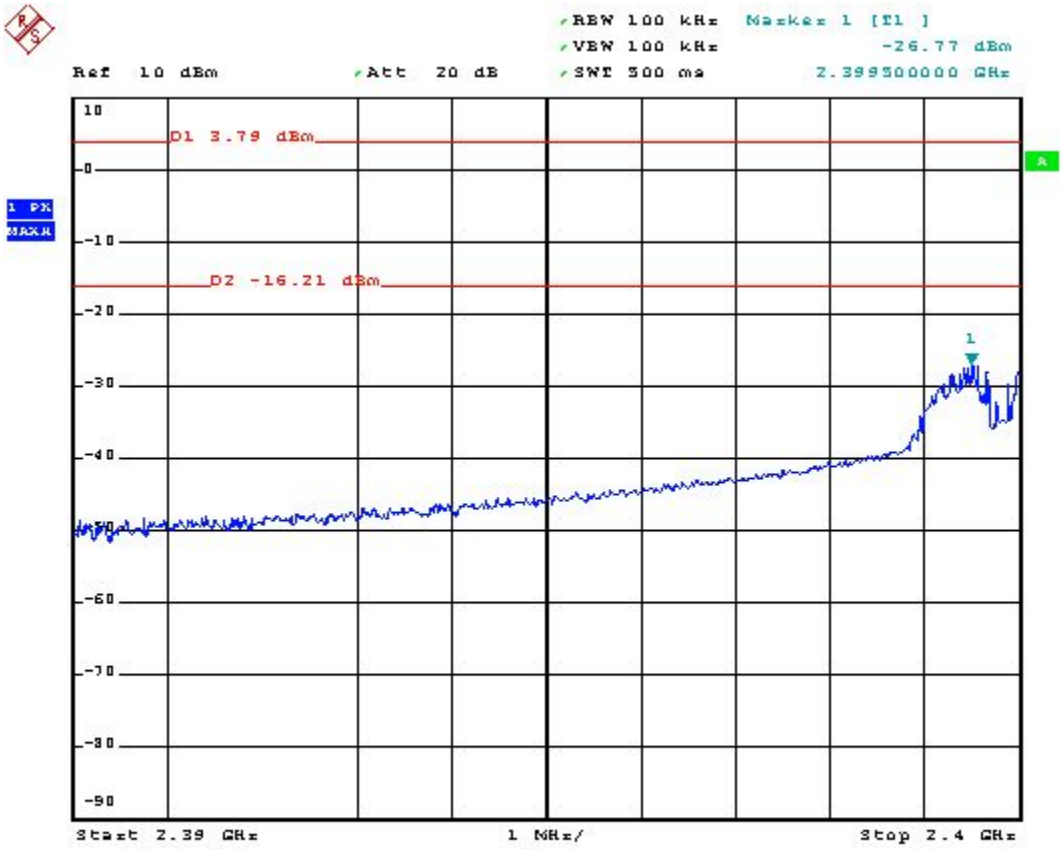
The band edge emission shows 30.54 dB delta between carrier maximum power and local maximum emission in the restricted band (2.390GHz).
The band edge emission shows 34.27 dB delta between carrier maximum power and local maximum emission in the restricted band (2.4835GHz)

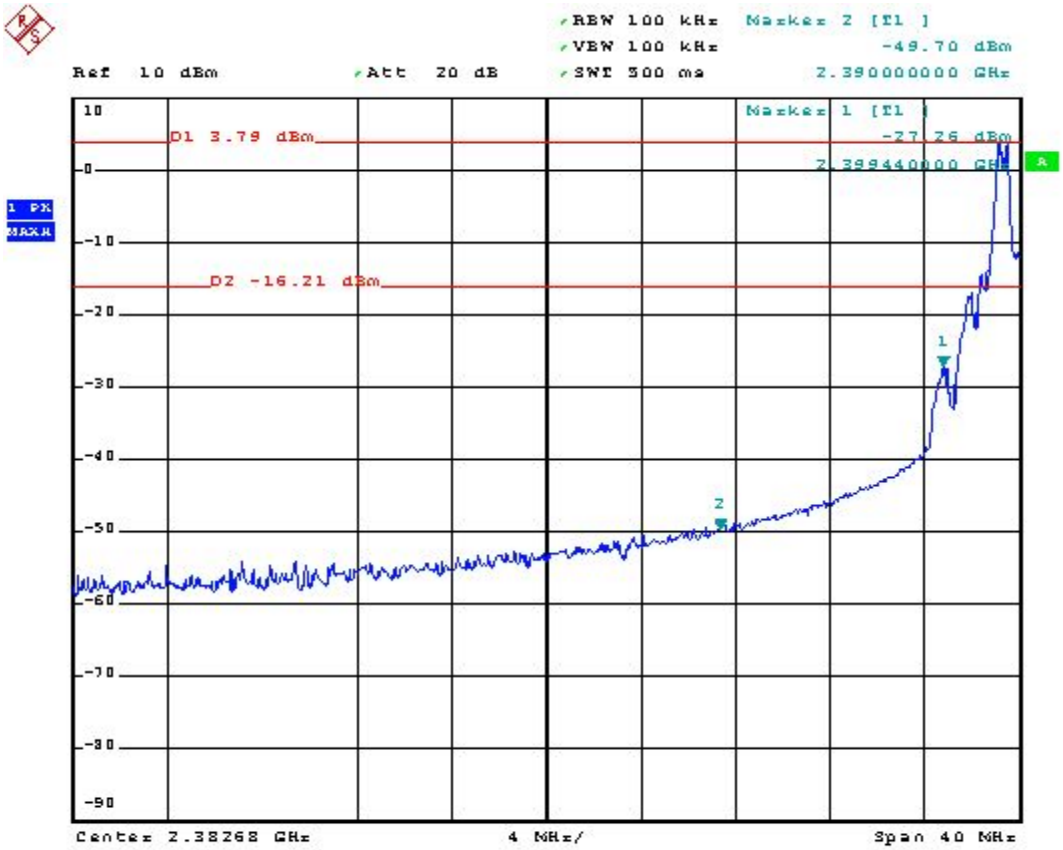
Channel	Polarity	The emission of carrier power strength	Frequency	The maximum field strength in band edge	Limit	Margin	Remark	Result
		(dBμV/m)	(GHz)	(dBμV/m)	(dBμV/m)	(dB)		
00	H	88.88	2.39944	58.34	74	-15.66	Peak	Pass
	H	66.68	2.39944	36.14	54	-17.86	Average	Pass
	V	95.57	2.39944	65.03	74	-8.97	Peak	Pass
	V	72.63	2.39944	42.09	54	-11.91	Average	Pass
78	H	90.47	2.4835	56.2	74	-17.8	Peak	Pass
	H	69.17	2.4835	34.9	54	-19.1	Average	Pass
	V	91.57	2.4835	57.3	74	-16.7	Peak	Pass
	V	70.4	2.4835	36.13	54	-17.87	Average	Pass

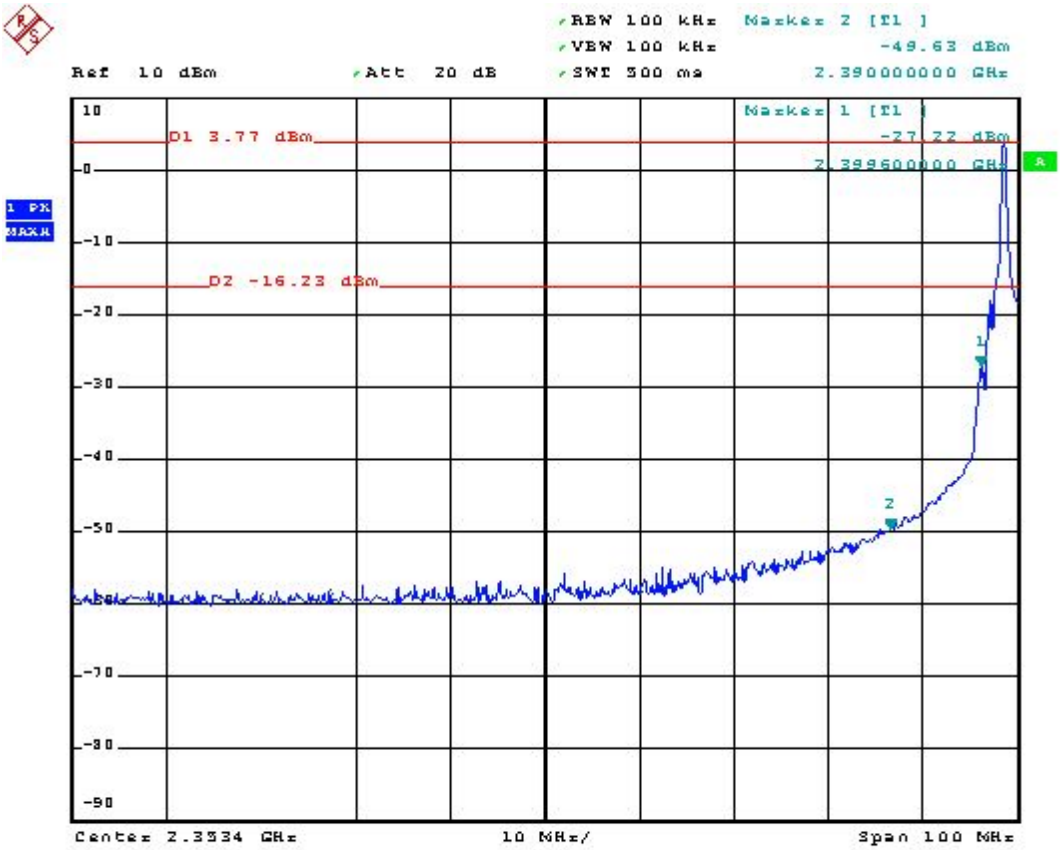
∗Remark: The data above can refer to radiated emission in section 5.9.

5.7.5 Frequency Band Edge

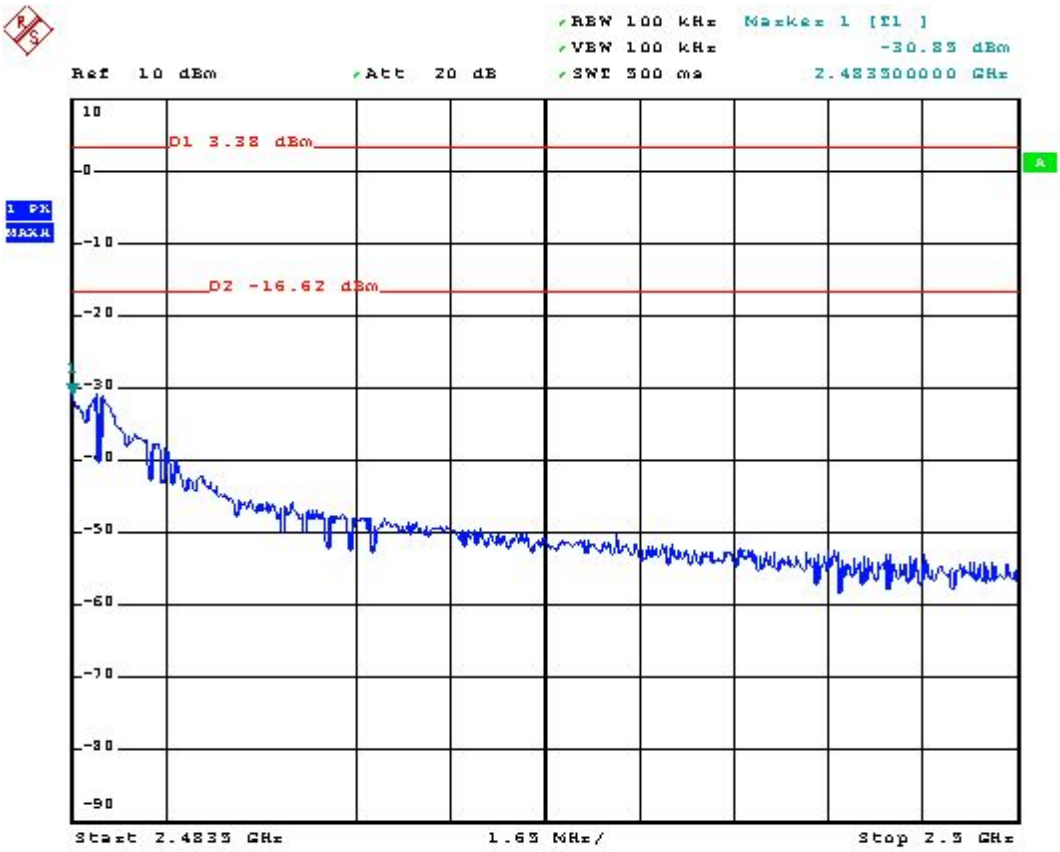
Mode 1: CH00 (2402 MHz)

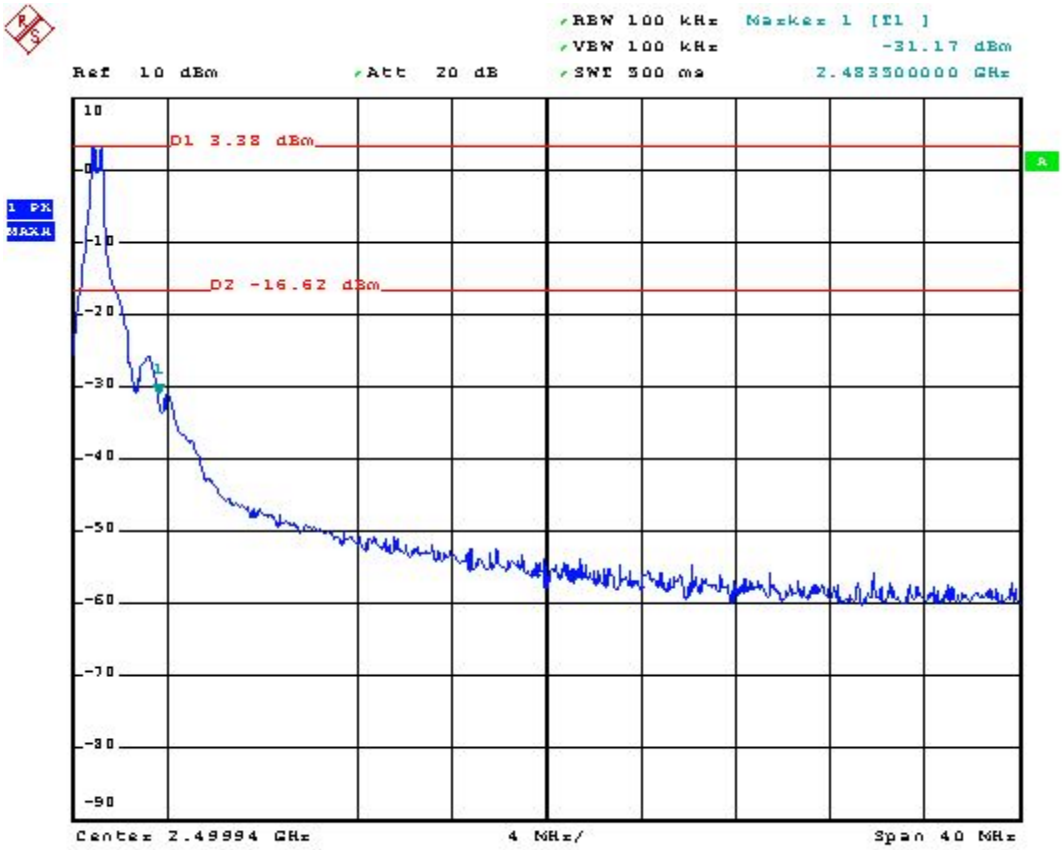


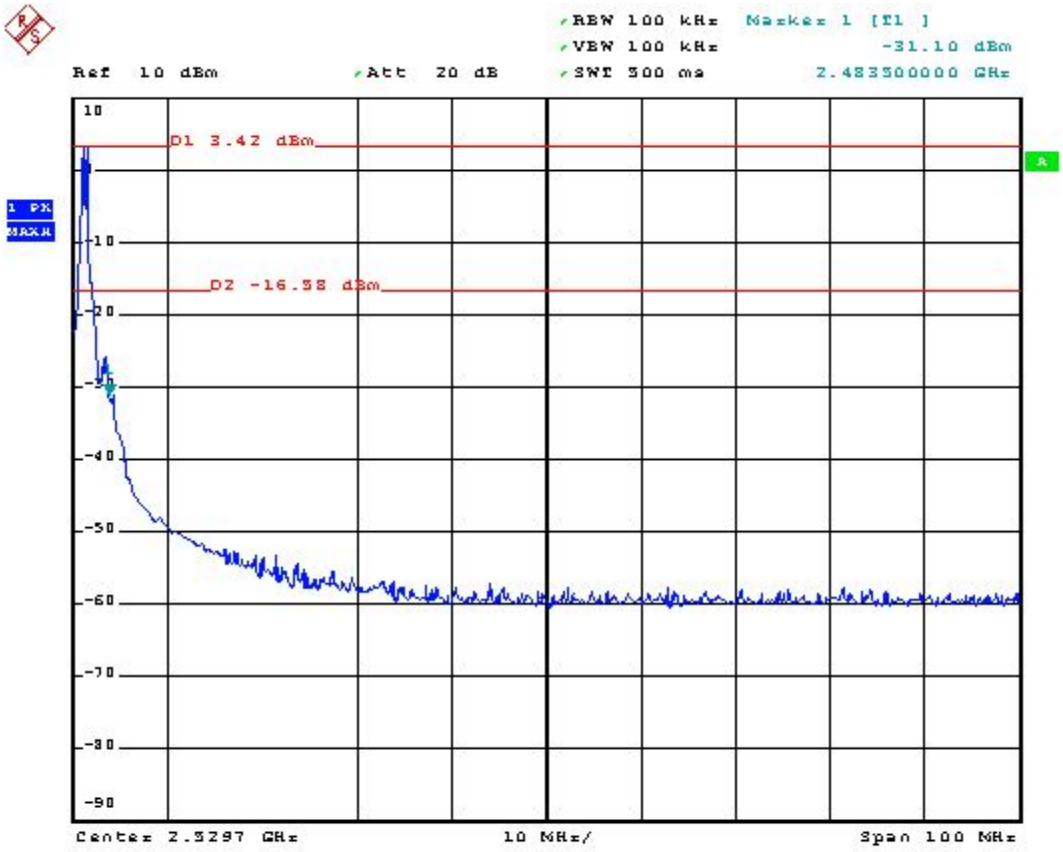

RBW 100 kHz
VBW 100 kHz
SWT 500 ms
Marker 2 [T1]
-49.70 dBm
2.390000000 GHz
Ref 10 dBm
Att 20 dB
Marker 1 [T1]
-27.26 dBm
2.399440000 GHz
D1 3.79 dBm
D2 -16.21 dBm
1 PK
MAXH
A
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
1
2
Center 2.38268 GHz
4 MHz/
Span 40 MHz


RBW 100 kHz
VBW 100 kHz
SWT 500 ms
Marker 2 [T1]
-49.63 dBm
2.390000000 GHz
Ref 10 dBm
Att 20 dB
Marker 1 [T1]
-27.22 dBm
2.399600000 GHz
D1 3.77 dBm
D2 -16.23 dBm
1 PK
MAXH
Center 2.3534 GHz
10 MHz/
Span 100 MHz

Mode 3: CH78 (2480 MHz)




RBW 100 kHz
VBW 100 kHz
SWT 500 ms
Marker 1 [T1]
-31.17 dBm
2.483500000 GHz
Ref 10 dBm
Att 20 dB
D1 3.38 dBm
D2 -16.62 dBm
1 PK
MAXH
A
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
Center 2.49994 GHz
4 MHz/
Span 40 MHz


RBW 100 kHz
VBW 100 kHz
SWT 500 ms
Marker 1 [T1]
-31.10 dBm
2.483500000 GHz
Ref 10 dBm
Att 20 dB
D1 3.42 dBm
D2 -16.58 dBm
1 RX
MAXH
A
10
-10
-20
-30
-40
-50
-60
-70
-80
-90
Center 2.5297 GHz
10 MHz/
Span 100 MHz

5.8 Test of Conducted Emission

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in ANSI C63.4-2001 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

5.8.1 Major Measuring Instruments：

● Test Receiver	(R&S ESCS 30)
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

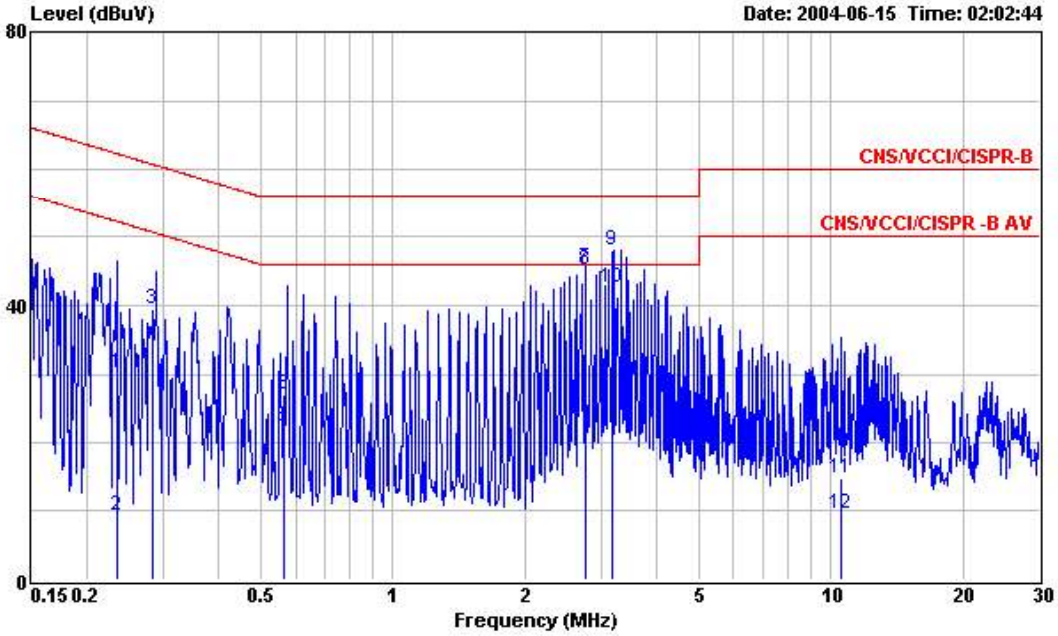
5.8.2 Test Procedures：

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power port of a line impedance stabilization network (LISN).
c. All the support units are connected to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 KHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

5.8.3 Test Result of Conducted Emission：

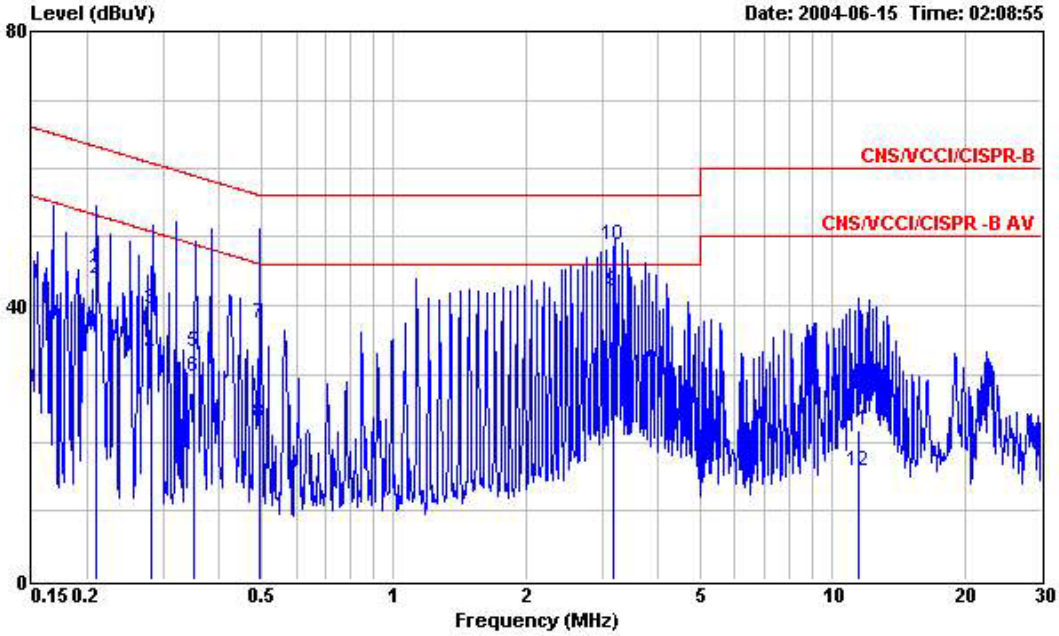
- Test Mode: Mode 1
- Frequency Range of Test: from 150KHz to 30 MHz
- Temperature: 26°C
- Relative Humidity: 53%
- Test Date: June 15, 2004

■ The test that passed at the minimum margin was marked by a frame in the following data



Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2003 2001/008 LINE
EUT : 2.4G HOPPING HOST
Power : 120Vac/50Hz
Model : LM610
Memo : Normal Mode
: Power Level
: Power-4dB

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.234	30.22	-32.08	62.30	30.11	0.10	0.01	QP
2	0.234	9.41	-42.89	52.30	9.30	0.10	0.01	Average
3	0.282	39.41	-21.33	60.74	39.28	0.10	0.03	QP
4	0.282	34.25	-16.49	50.74	34.12	0.10	0.03	Average
5	0.566	26.89	-29.11	56.00	26.72	0.10	0.07	QP
6	0.566	22.44	-23.56	46.00	22.27	0.10	0.07	Average
7	2.757	45.53	-10.47	56.00	45.34	0.10	0.09	QP
8	2.757	45.12	-0.88	46.00	44.93	0.10	0.09	Average
9	3.180	48.05	-7.95	56.00	47.86	0.10	0.09	QP
10	3.180	42.58	-3.42	46.00	42.39	0.10	0.09	Average
11	10.563	14.84	-45.16	60.00	14.49	0.20	0.15	QP
12	10.563	9.50	-40.50	50.00	9.15	0.20	0.15	Average



Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2003 2001/008 NEUTRAL
EUT : 2.4G HOPPING HOST
Power : 120Vac/50Hz
Model : LM610
Memo : Normal Mode
: Power Level
: Power-4dB

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.210	45.34	-17.87	63.21	45.24	0.10	0.00	QP
2	0.210	43.83	-9.38	53.21	43.73	0.10	0.00	Average
3	0.281	39.53	-21.26	60.79	39.40	0.10	0.03	QP
4	0.281	32.71	-18.08	50.79	32.58	0.10	0.03	Average
5	0.352	33.15	-25.77	58.92	33.00	0.10	0.05	QP
6	0.352	29.68	-19.24	48.92	29.53	0.10	0.05	Average
7	0.493	37.32	-18.79	56.11	37.16	0.10	0.06	QP
8	0.493	22.98	-23.13	46.11	22.82	0.10	0.06	Average
9	3.180	42.15	-3.85	46.00	41.89	0.17	0.09	Average
10	3.180	48.82	-7.18	56.00	48.56	0.17	0.09	QP
11	11.504	21.78	-38.22	60.00	21.39	0.23	0.16	QP
12	11.504	15.76	-34.24	50.00	15.37	0.23	0.16	Average

Test Engineer: _____

Jay

5.9 Test of Radiated Emission

Radiated emissions from 30 MHz to 26.5 GHz were measured according to the methods defined in ANSI C63.4-2001. The EUT was placed on a nonmetallic stand, 0.8 meter above the ground plane, as shown in section 5.9.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

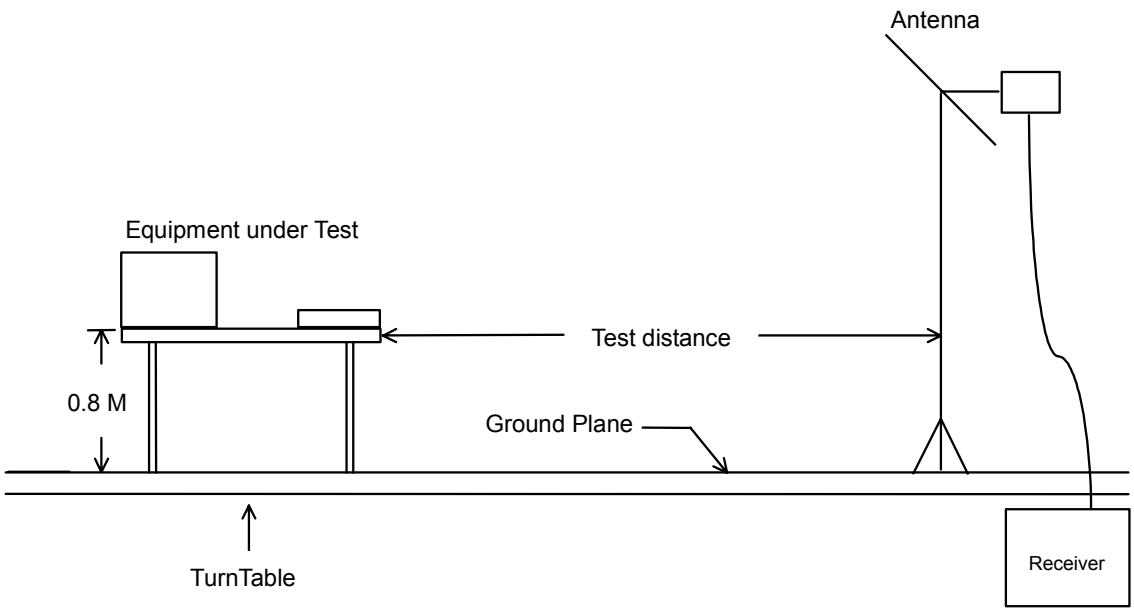
5.9.1 Major Measuring Instruments

- Amplifier (MITEQ AFS44)
  - RF Gain 40 dB
  - Signal Input 100 MHz to 26.5 GHz
- Amplifier (HP 8447D)
  - RF Gain 30 dB
  - Signal Input 100 kHz to 1.3 GHz
- Spectrum analyzer (R&S FSP40)
  - Attenuation 10 dB
  - Start Frequency 1 GHz
  - Stop Frequency 24 GHz
  - Resolution Bandwidth 1 MHz
  - Video Bandwidth 1 MHz
  - Signal Input 9 kHz to 40 GHz

5.9.2 Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.

5.9.3 Typical Test Setup Layout of Radiated Emission

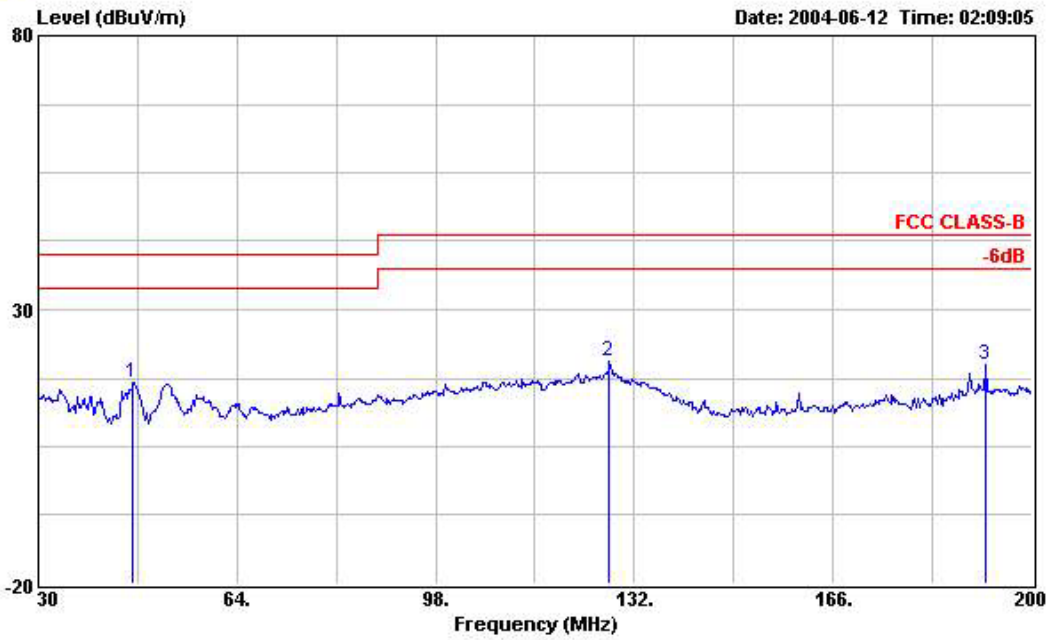


5.9.4 Test Result of Radiated Emission

- Test Mode: Mode 1
- Test Distance: 3 m
- Temperature: 26°C
- Relative Humidity: 53%
- Test Date: June 15, 2004
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

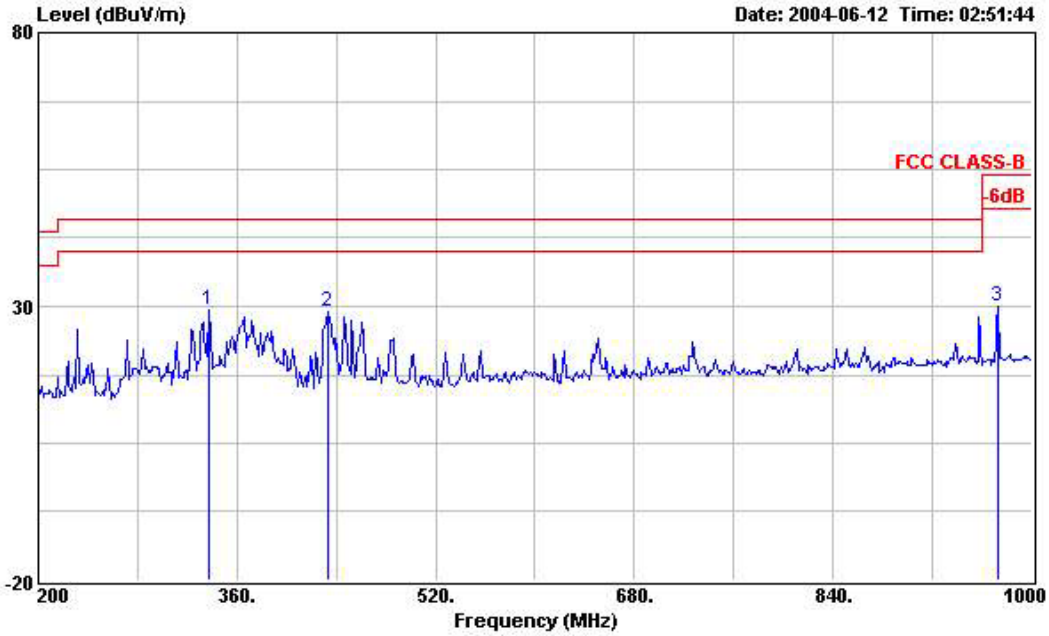
The test that passed at the minimum margin was marked by the frame in the following test record

- Spurious Emission



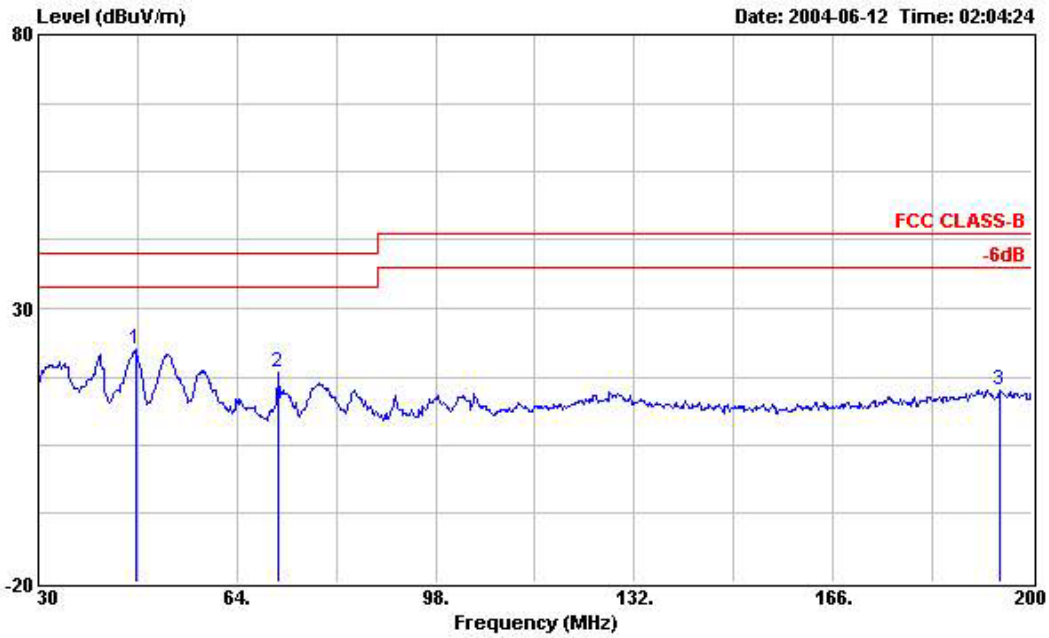
Site : 03CH03-HY
Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL
EUT : 2.4G Hopping Host
Power : 120V/60Hz
Memo : LM610
: Host TX 2402MHz (CH:00)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	46.150	16.82	-23.18	40.00	34.15	10.47	0.21	28.01	Peak	---	---
2	127.750	20.55	-22.95	43.50	36.59	11.19	0.61	27.84	Peak	---	---
3	192.180	19.92	-23.58	43.50	32.30	14.62	0.71	27.71	Peak	---	---



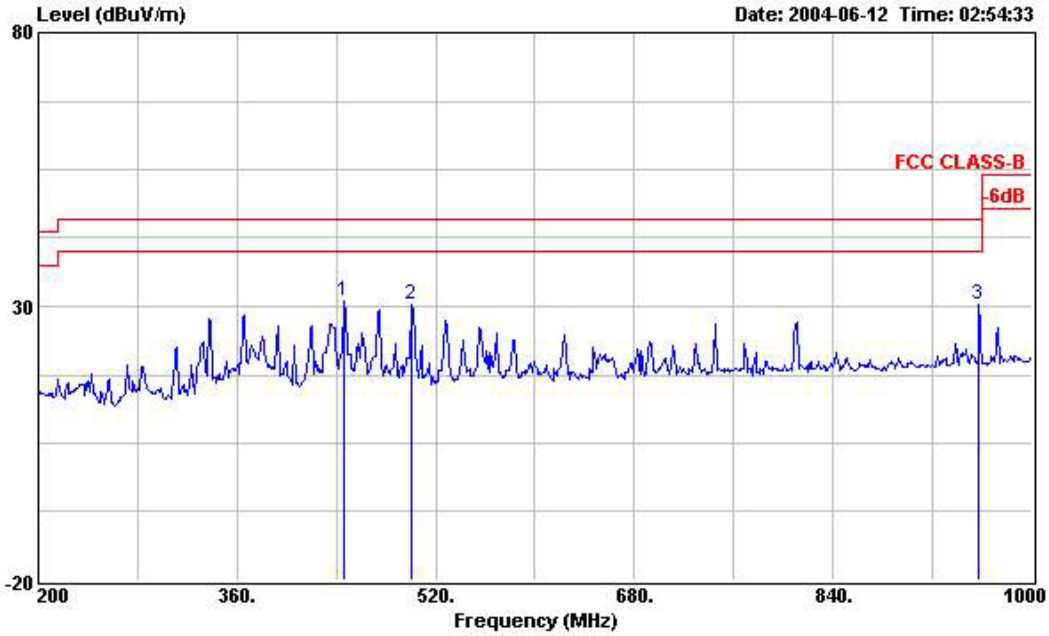
Site : 03CH03-HY
Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL
EUT : 2.4G Hopping Host
Power : 120V/60Hz
Memo : LM610
: Host TX 2402MHz (CH:00)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	336.800	29.29	-16.71	46.00	40.52	15.16	1.09	27.48	Peak	---	---
2	432.800	29.10	-16.90	46.00	39.61	16.25	1.33	28.09	Peak	---	---
3	972.800	30.02	-23.98	54.00	34.38	22.02	1.85	28.23	Peak	---	---



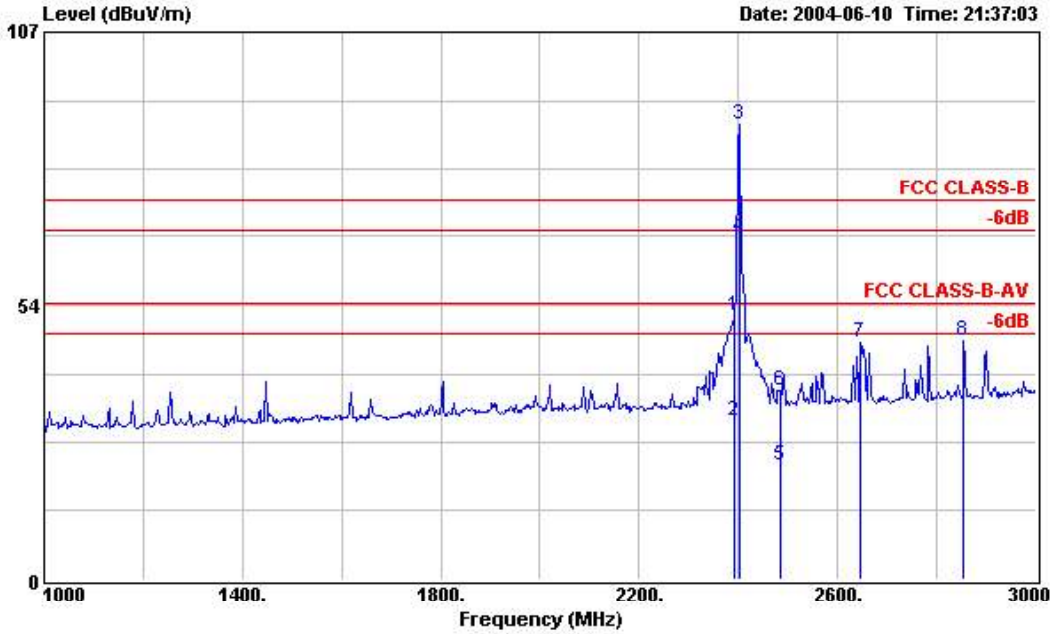
Site : 03CH03-HY
Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL
EUT : 2.4G Hopping Host
Power : 120V/60Hz
Memo : LM610
: Host TX 2402MHz (CH:00)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	46.660	22.45	-17.55	40.00	39.80	10.40	0.26	28.01	Peak	---	---
2	71.140	18.41	-21.59	40.00	37.03	8.95	0.39	27.96	Peak	---	---
3	194.390	15.10	-28.40	43.50	27.32	14.67	0.82	27.71	Peak	---	---



Site : 03CH03-HY
Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL
EUT : 2.4G Hopping Host
Power : 120V/60Hz
Memo : LM610
: Host TX 2402MHz (CH:00)

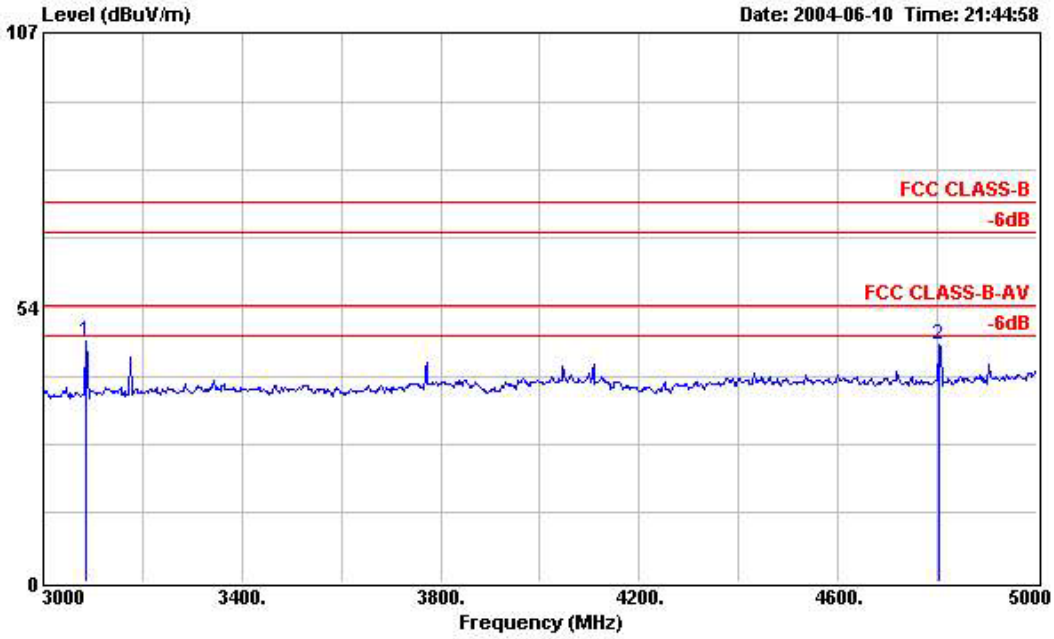
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	445.600	30.96	-15.04	46.00	41.42	16.44	1.31	28.21	Peak	---	---
2	500.000	30.35	-15.65	46.00	40.34	17.35	1.36	28.70	Peak	---	---
3	957.600	30.24	-15.76	46.00	34.99	21.90	1.59	28.24	Peak	---	---



Site : 03CH03-HY
Condition : FCC CLASS-B 3m HORN-ANT-6821 HORIZONTAL
EUT : 2.4G Hopping Host
Power : 120V/60Hz
Memo : LM610
: Host TX 2402MHz (CH:00)

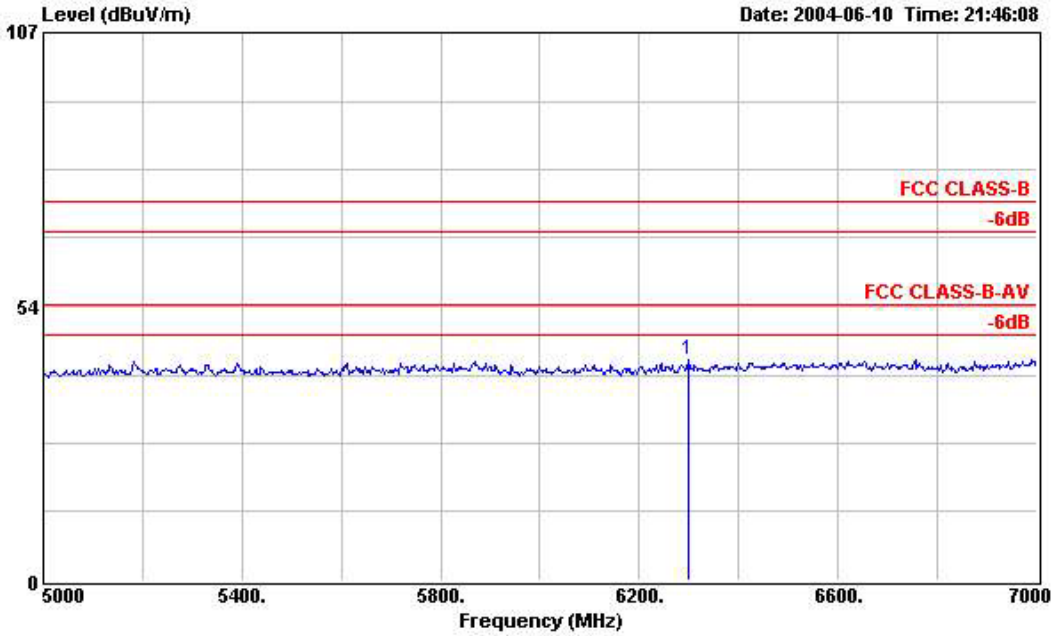
		Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1		2390.000	51.28	-22.72	74.00	62.56	28.14	1.72	41.14	Peak	100	147
2		2390.000	30.91	-23.09	54.00	42.19	28.14	1.72	41.14	Average	100	147
3	X	2404.000	88.88			100.12	28.18	1.73	41.15	Peak	100	156
4	X	2404.000	66.68			77.92	28.18	1.73	41.15	Average	100	156
5		2484.000	22.13	-31.87	54.00	33.12	28.39	1.82	41.20	Average	100	147
6		2484.000	36.78	-37.22	74.00	47.77	28.39	1.82	41.20	Peak	100	147
7		2646.000	46.26	-27.74	74.00	56.55	28.95	1.96	41.20	Peak	---	---
8		2854.000	46.67	-27.33	74.00	56.23	29.69	1.95	41.20	Peak	---	---

Remark: The “X” represent a fundamental frequency.



Site : 03CH03-HY
Condition : FCC CLASS-B 3m HORN-ANT-6821 HORIZONTAL
EUT : 2.4G Hopping Host
Power : 120V/60Hz
Memo : LM610
: Host TX 2402MHz (CH:00)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	3086.000	47.07	-26.93	74.00	55.97	30.39	1.93	41.22	Peak	---	---
2	4804.000	46.15	-27.85	74.00	52.90	33.19	2.40	42.34	Peak	---	---



Site : 03CH03-HY
Condition : FCC CLASS-B 3m HORN-ANT-6821 HORIZONTAL
EUT : 2.4G Hopping Host
Power : 120V/60Hz
Memo : LM610
: Host TX 2402MHz (CH:00)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	6300.000	43.23	-30.77	74.00	48.96	34.60	2.97	43.30	Peak	---	---