Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan	**TEST REPORT**	Reference No.: A08061006 Report No.: FCCA08061006 FCCID: VHVBTVM1000 Page:1 of 53 Date : Jun. 30, 2008

Product Name:	Bluetooth Mouse
Model Number:	VM-1000
Applicant:	Vencer Co., Ltd. 20F-1, No.77, Sec.1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.
Date of Receipt:	Jun. 10, 2008
Finished date of Test:	Jun. 27, 2008
Applicable Standards:	47 CFR Part 15, Subpart C ANSI C63.4:2003 FCC Public Notice DA 00-705(March 2000)

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Checked By : Shunm Wang , Date: Jun. 30, 2008
(Shunm Wang)

Approved By : Johnson Ho Date: 6/30/2008
(Johnson Ho, Director)

NVLAP®
Lab Code: 200099-0

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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 VAC/60 Hz, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

Product	Bluetooth Mouse
Model No.	VM-1000
Power Supply	DC 3.7 V , 400mA
Frequency Band	2400-2483.5 MHz
Number of Channel	79
Channel Spacing	1 MHz
Rated RF Output Power	0 dBm
Modulation Type	GFSK
Bit Rate of Transmission	2.1Mbp/s
Mode of Operation	Duplex.
Antenna Gain	2 dBi
Operating Temperature Range	-10 ~ 55 °C
Channel Bandwidth	1 MHz
Antenna Type	PCB Printing
Duty Cycle	50 %
Carrier Frequency	2402-2480 MHz

NOTE：
For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF SUPPORT UNIT

The transmitter part of EUT was tested with a PC system and configured by the requirement of ANSI C63.4. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

No	Device	Brand	Model #	FCC ID/DoC	Cable
1	Monitor	Samsung	PG17IS	DOC	1.8m unshielded power cord 1.5m shielded data cord
2	Keyboard	IBM	SK-8820	DOC	1.5m unshielded data cord
3	Mouse	Logitech	M-S34	DZL211029	1.5m unshielded data cord
4	PC	ACER	Aspire T650	DOC	1.8m unshielded power cord
5	Modem	ACEEX	DM-1414	DOC	1.8m unshielded power cord 1.5m shielded data cord
6	Print	EPSON	STYLUS C20SX	DOC	1.8m unshielded power cord 1.5m shielded data cord
7	Dongle	ASUS	WL-BTD202	DOC	NA

NOTE ： For the actual test configuration, please refer to the photos of testing.

2.3 DESCRIPTION OF TEST MODE

Sixteen channels are provided by EUT. Three channels of lower, medium and higher were chosen for test.

Channel	Frequency (MHz)
0	2402
39	2441
78	2480

NOTE :

1. Below 1 GHz, the channel 0, 39 and 78 were pre-tested in chamber. The channel 79, worst case one, was chosen for conducted and radiated emission test.
2. Above 1 GHz, the channel 0, 39 and 78 were tested individually.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of wireless product and to be connected with a PC system for normal use. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C
ANSI C63.4: 2003
Public Notice DA 00-705 (March 2000)

All tests have been performed and recorded as the above standards.

4. TECHNICAL CHARACTERISTICS TEST

4.1 CHANNEL SEPARATION TEST

4.1.1 LIMIT

FCC Part15, Subpart C Section 15.247(a)(1). Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Frequency Range (MHz)	Limit(kHz)
902-928	>25kHz
2400-2483.5	>25kHz
5725-5850	>25kHz

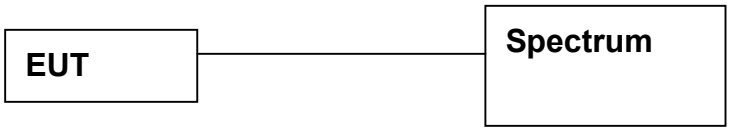
4.1.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test：

Equipment/ Facilities	Specifications	Manufacturer	Model#/ Serial#	Due Date of Cal. & Cal. Center
SPECTRUM	9kHz-40GHz	ROHDE & SCHWARZ	FSP40/ 100093	SEP. 2008 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.1.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.1.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
Printed out the test result from the spectrum by hard copy function.

4.1.5 EUT OPERATING CONDITION

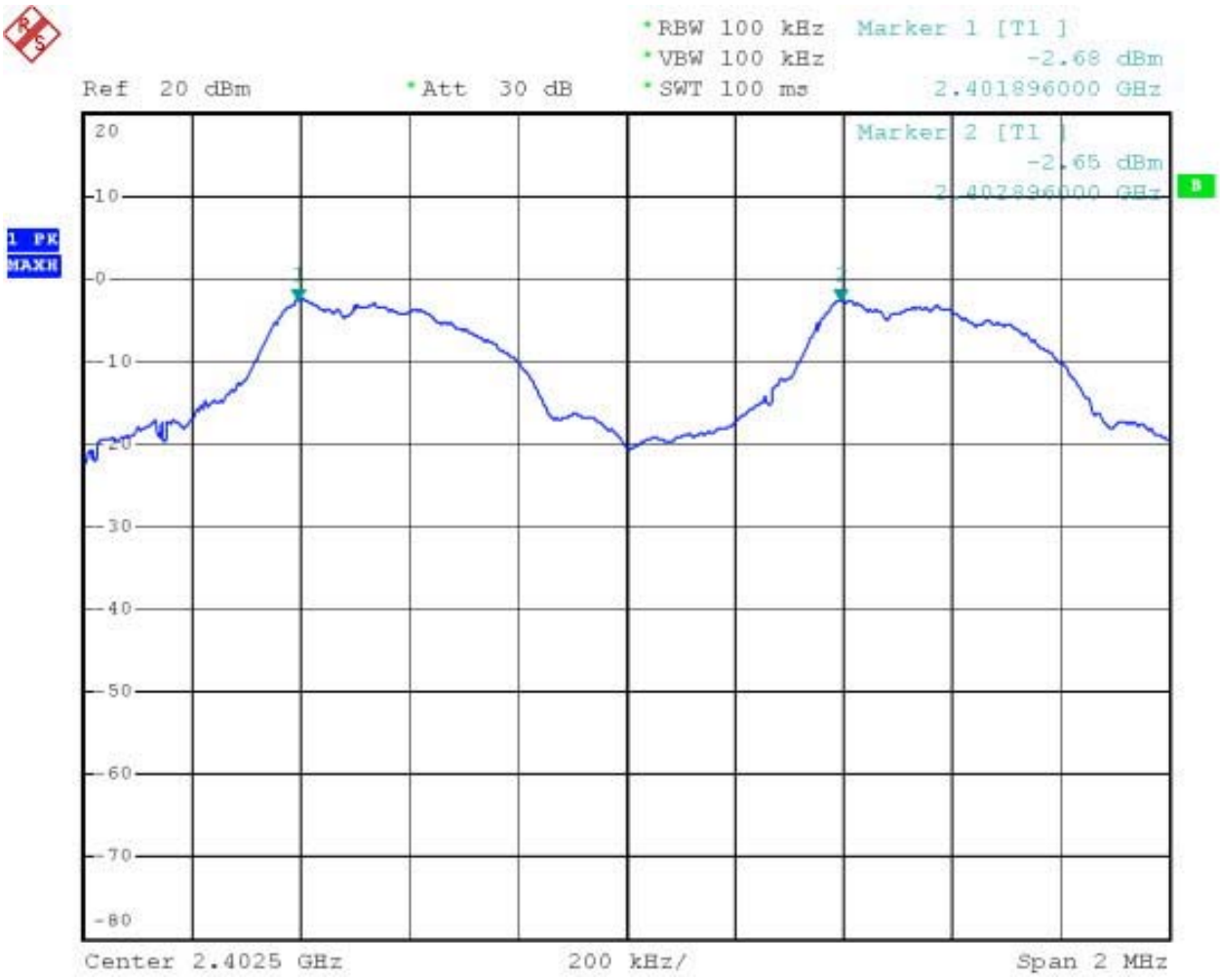
1. Set the EUT under transmission condition continuously at a specific channel frequency.
2. The EUT was set to the highest available power level.

4.1.6 TEST RESULT

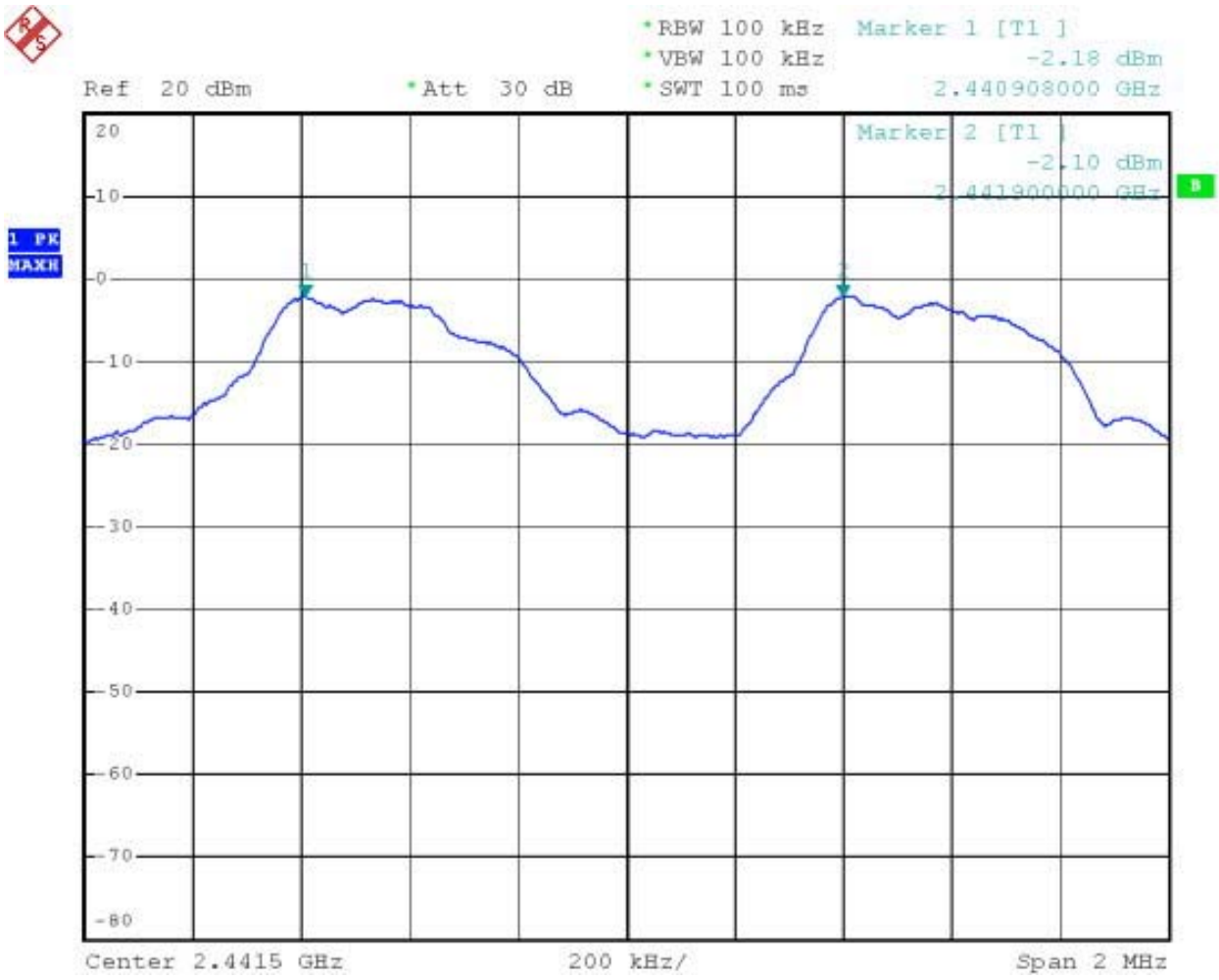
Temperature:	25°C	Humidity:	64%RH
Spectrum Detector:	PK	Tested by:	Shunm Wang
Test Result:	PASS	Tested Date:	Jun.24,2008

Channel Number	Channel Frequency (MHz)	Separation Read Value (kHz)	Minimum Limit(20dB Bandwidth) (kHz)
0	2402	1000	25
39	2441	992	25
78	2480	1004	25

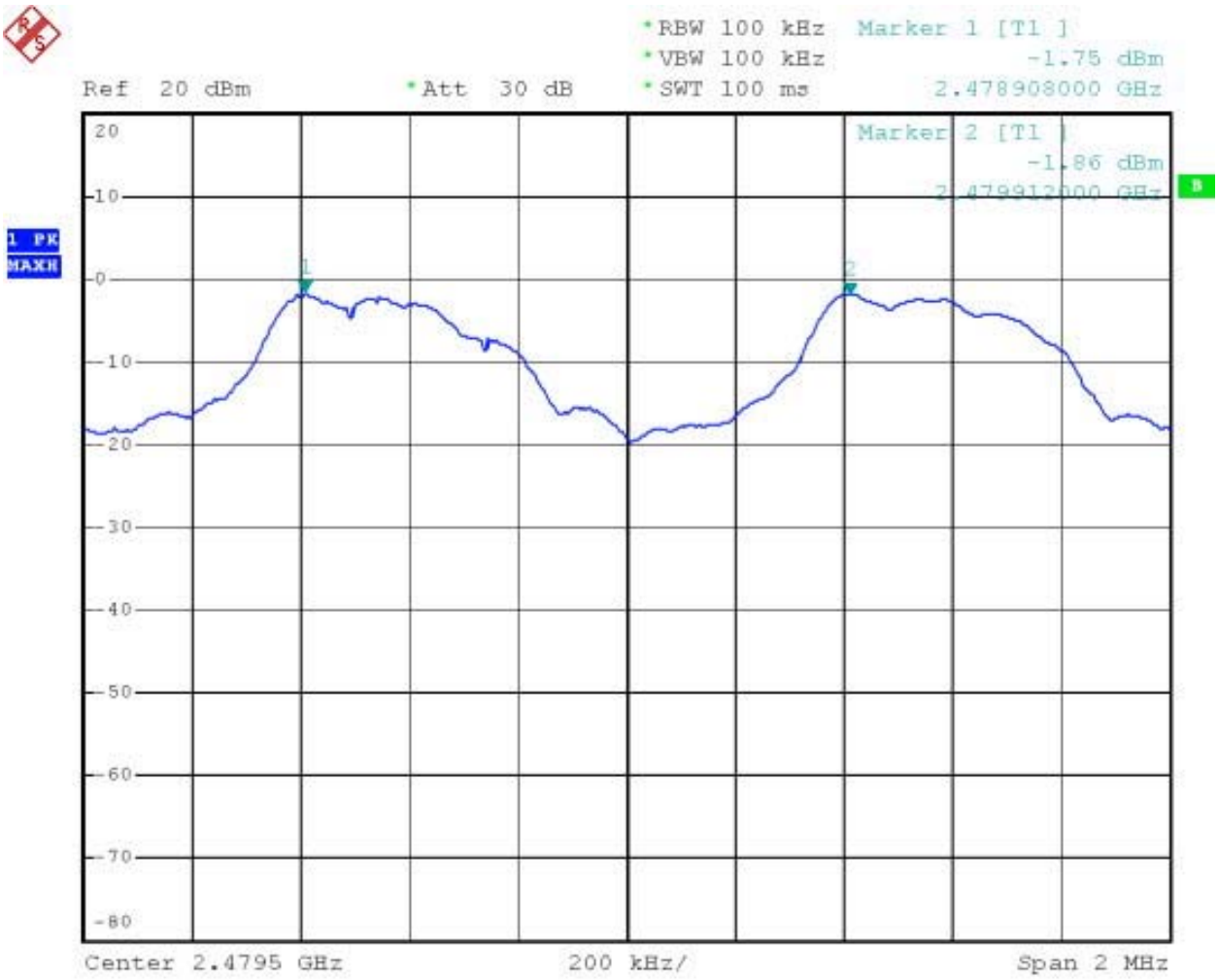
CH0:


*RBW 100 kHz
*VBW 100 kHz
*SWT 100 ms
Marker 1 [T1]
-2.68 dBm
2.401896000 GHz
Marker 2 [T1]
-2.65 dBm
2.402896000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.4025 GHz
200 kHz/
Span 2 MHz

CH39:


*RBW 100 kHz
*VBW 100 kHz
*SWT 100 ms
Marker 1 [T1]
-2.18 dBm
2.440908000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-2.10 dBm
2.441900000 GHz
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.4415 GHz
200 kHz/
Span 2 MHz

CH78:


RBW 100 kHz
VBW 100 kHz
SWT 100 ms
Marker 1 [T1]
-1.75 dBm
2.478908000 GHz
Ref 20 dBm
Att 30 dB
Marker 2 [T1]
-1.86 dBm
2.479912000 GHz
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.4795 GHz
200 kHz/
Span 2 MHz

4.2 20dB Bandwidth

4.2.1 LIMIT

Frequency Range (MHz)	Limit(kHz)				
	Quantity of Hopping Channel	50	25	15	75
902-928		<250	>250	NA	NA
2400-2483.5		NA	NA	>1000	<1000

4.2.2 TEST EQUIPMENT

The following test equipment was used during the test:

Equipment/ Facilities	Specifications	Manufacturer	Model#/ Serial#	Due Date of Cal. & Cal. center
SPECTRUM	9kHz-40GHz	ROHDE & SCHWARZ	FSP40/ 100093	SEP. 2008 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.2.3 TEST SET-UP

The EUT was connected to a spectrum through a 50Ω RF cable.

4.2.4 TEST PROCEDURE

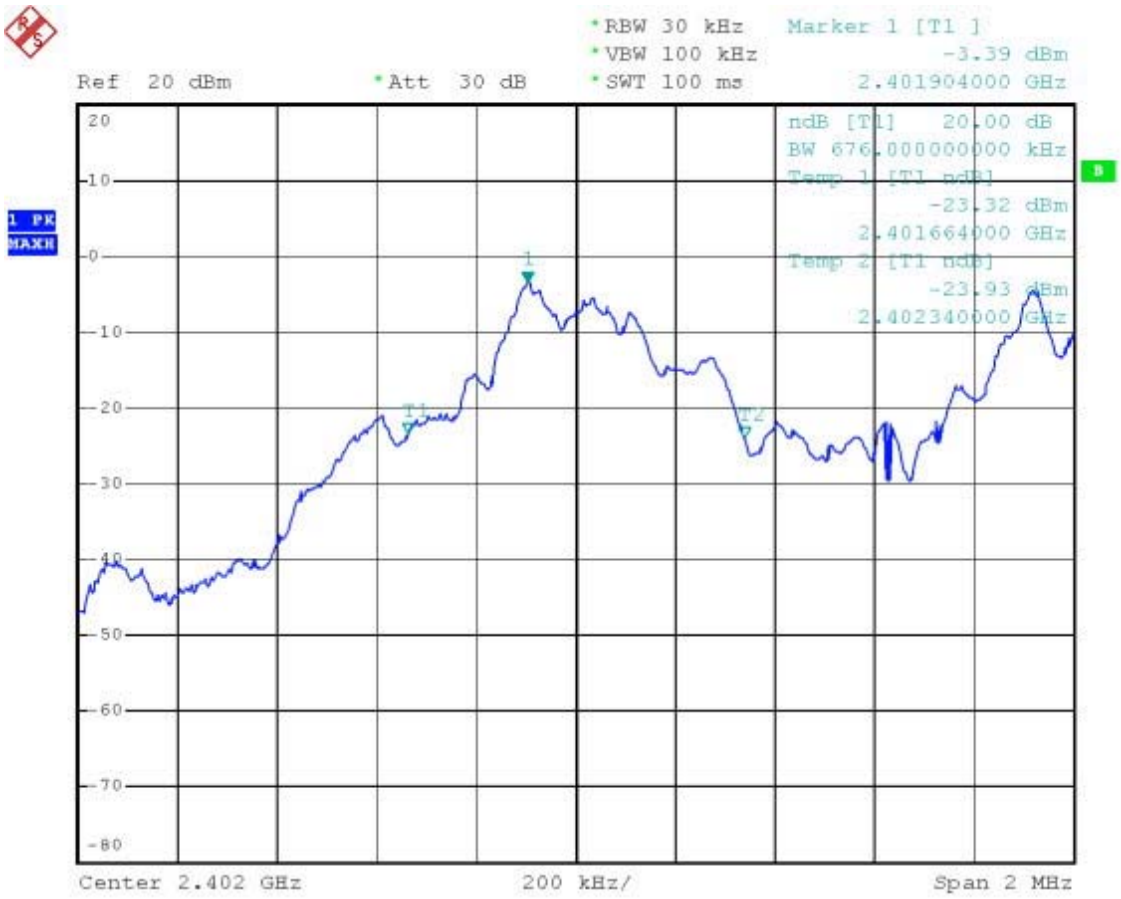
The EUT was operated in hopping mode or any specific channel.
Printed out the test result from the spectrum by hard copy function.

4.2.5 TEST RESULT

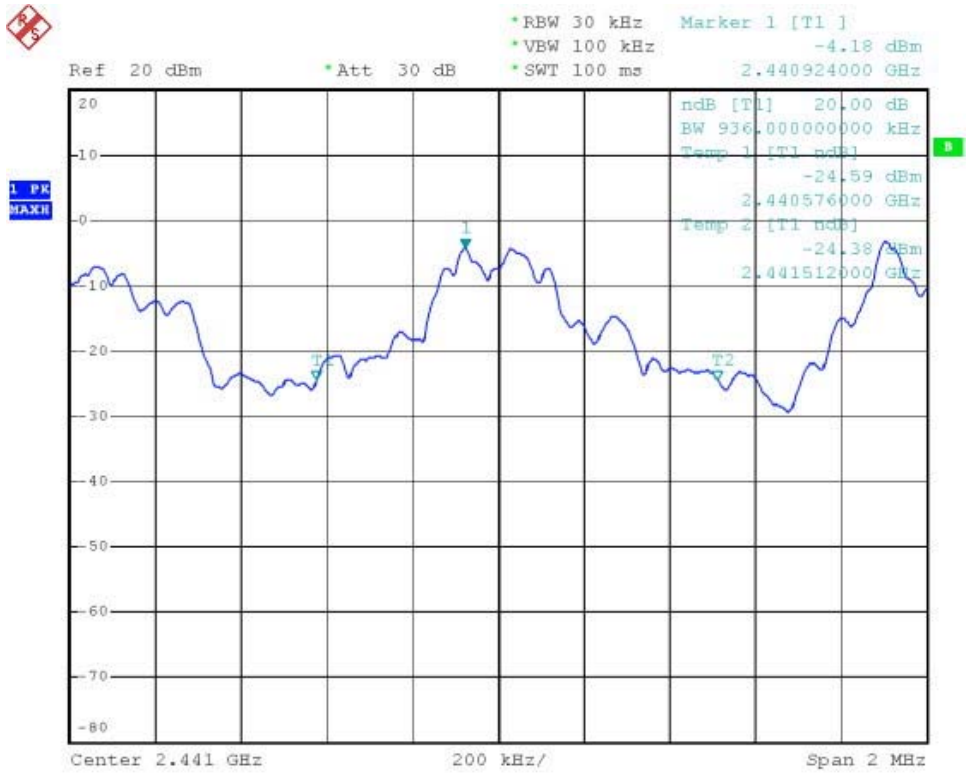
Temperature:	25°C	Humidity:	64%RH
Spectrum Detector:	PK	Tested by:	Shunm Wang
Test Result:	PASS	Tested Date:	Jun. 24, 2008

Channel Number	Channel Frequency (MHz)	20dB Down Bandwidth (KHz)
0	2402	676
39	2441	936
78	2480	644

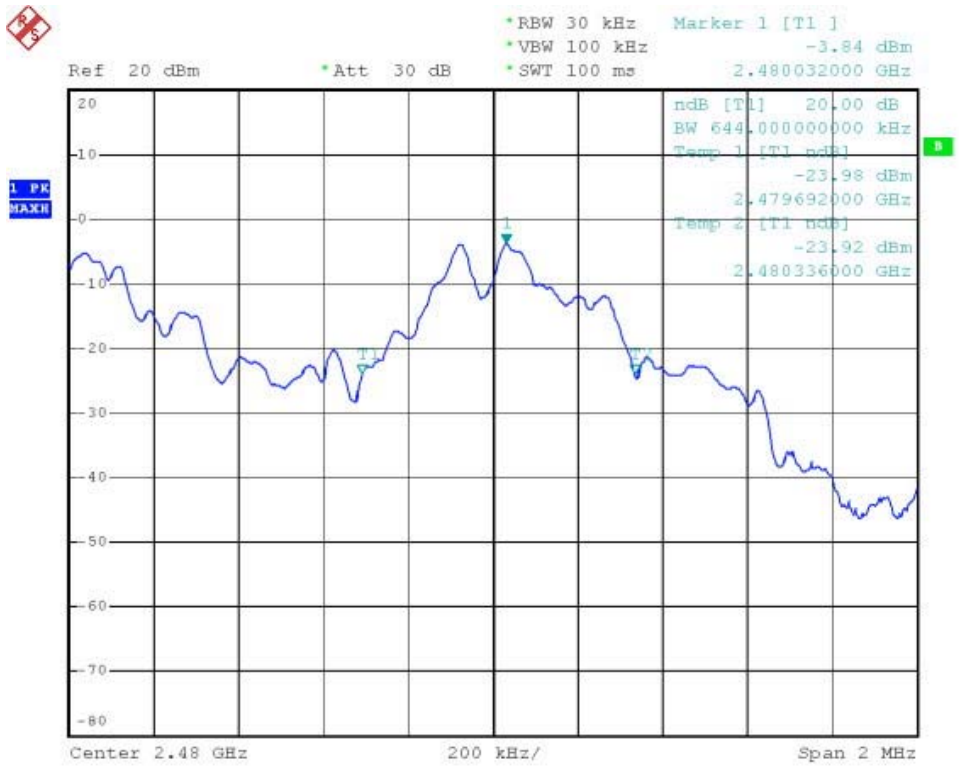
CH0:



CH39:


*RBW 30 kHz
*VBW 100 kHz
*SWT 100 ms
Marker 1 [T1]
-4.18 dBm
2.440924000 GHz
Ref 20 dBm
*Att 30 dB
ndB [T1] 20.00 dB
BW 936.0000000000 kHz
Temp 1 [T1 ndB]
-24.59 dBm
2.440576000 GHz
Temp 2 [T1 ndB]
-24.38 dBm
2.441512000 GHz
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.441 GHz
200 kHz/
Span 2 MHz

CH78:


*RBW 30 kHz
*VBW 100 kHz
*SWT 100 ms
Marker 1 [T1]
-3.84 dBm
2.480032000 GHz
Ref 20 dBm
*Att 30 dB
ndB [T1] 20.00 dB
BW 644.000000000 kHz
Temp 1 [T1 ndB]
-23.98 dBm
2.479692000 GHz
Temp 2 [T1 ndB]
-23.92 dBm
2.480336000 GHz
1 PK
MAXH
Center 2.48 GHz
200 kHz/
Span 2 MHz

4.3 QUANTITY OF HOPPING CHANNEL TEST

4.3.1 LIMIT

FCC Part15, Subpart C Section 15.247.

Frequency Range (MHz)	Limit (Quantity of Hopping Channel)			
	20dB Bandwidth <250kHZ	20dB Bandwidth >250kHZ	20dB Bandwidth <1MHz	20dB Bandwidth >1MHz
902-928	50	25	N/A	N/A
2400-2483.5	N/A	N/A	75	15
5725-5850	N/A	N/A	75	N/A

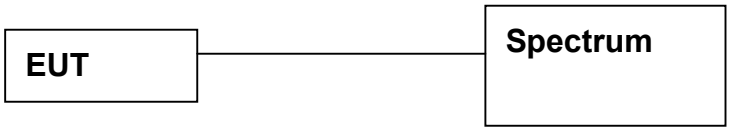
4.3.2 TEST EQUIPMENT

The following test equipment was used during the test:

Equipment/ Facilities	Specifications	Manufacturer	Model#/ Serial#	Due Date of Cal. & Cal. Center
SPECTRUM	9kHz-40GHz	ROHDE & SCHWARZ	FSP40/ 100093	SEP. 2008 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.3.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
Printed out the test result from the spectrum by hard copy function.

4.3.5 EUT OPERATING CONDITION

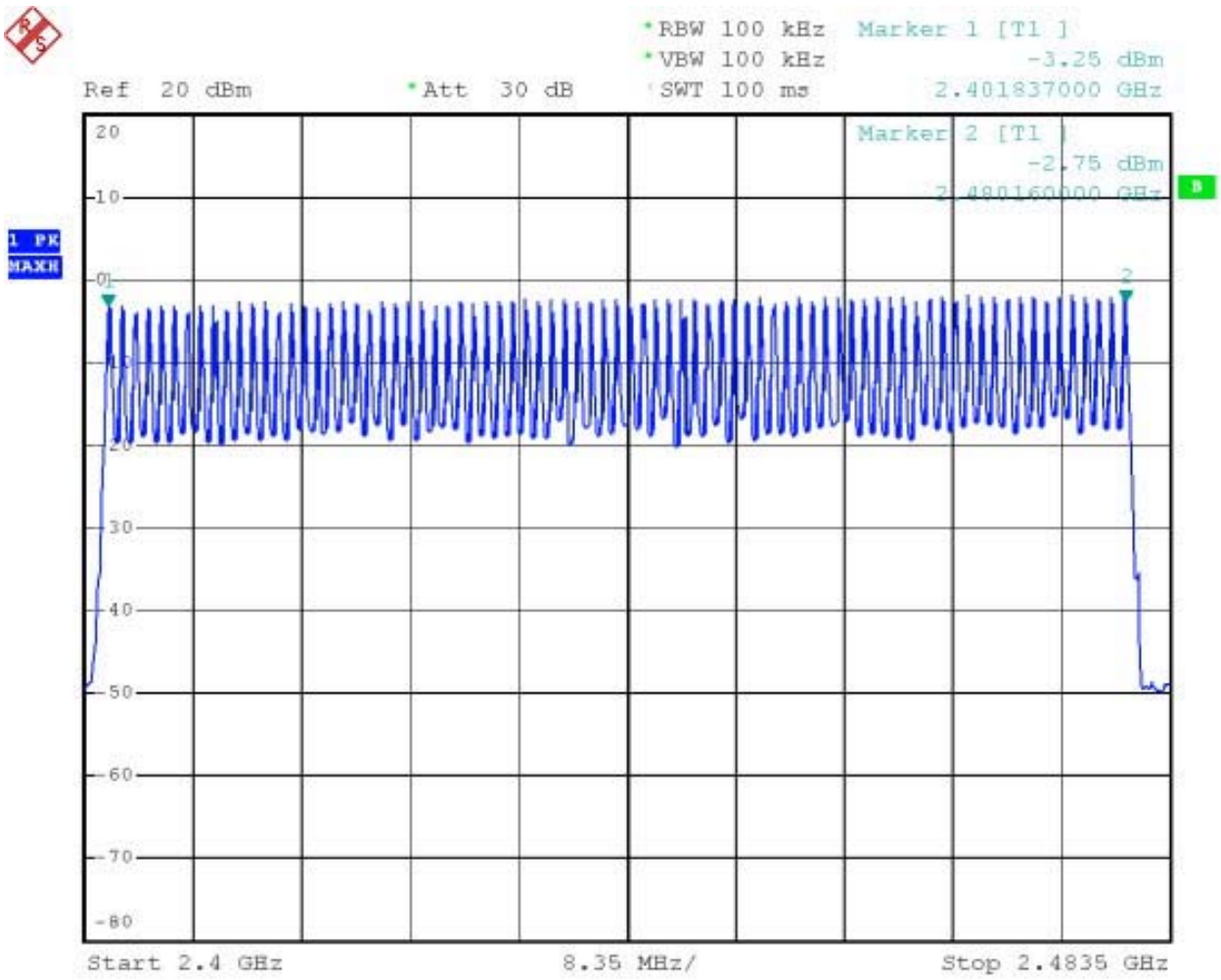
1. Set the EUT under frequency hopping transmission condition.
2. The EUT was set to the highest available power level.

4.3.6 TEST RESULT

Temperature:	25°C	Humidity:	64%RH
Spectrum Detector:	PK	Tested by:	Shunm Wang
Test Result:	PASS	Tested Date:	Jun.24,2008

Hopping Channel Frequency Range(MHz)	Quantity of Hopping Channel Read Value	Quantity of Hopping Channel Limit
2402~2480	79	75

CH0-CH78



4.4 TIME OF OCCUPANCY (Dwell Time)

4.4.1 LIMIT

FCC Part15, Subpart C Section 15.247.

Frequency Range (MHz)	Limit (ms)		
	20dB Bandwidth <250kHZ(50Channel)	20dB Bandwidth >250kHZ(25Channel)	20dB Bandwidth <1MHz(75Channel)
902-928	400(20s)	400(10s)	NA
2400-2483.5	NA	NA	400(30s)
5725-5850	NA	NA	400(30s)

NOTE: The "()" is all channel's average time of occupancy.

4.4.2 TEST EQUIPMENT

The following test equipment was used during the test:

Equipment/ Facilities	Specifications	Manufacturer	Model#/ Serial#	Due Date of Cal. & Cal. Center
SPECTRUM	9kHz-40GHz	ROHDE & SCHWARZ	FSP40/ 100093	SEP. 2008 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST SET-UP

The EUT was connected to a spectrum through a 50Ω RF cable.

4.4.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
Printed out the test result from the spectrum by hard copy function.

4.4.5 EUT OPERATING CONDITION

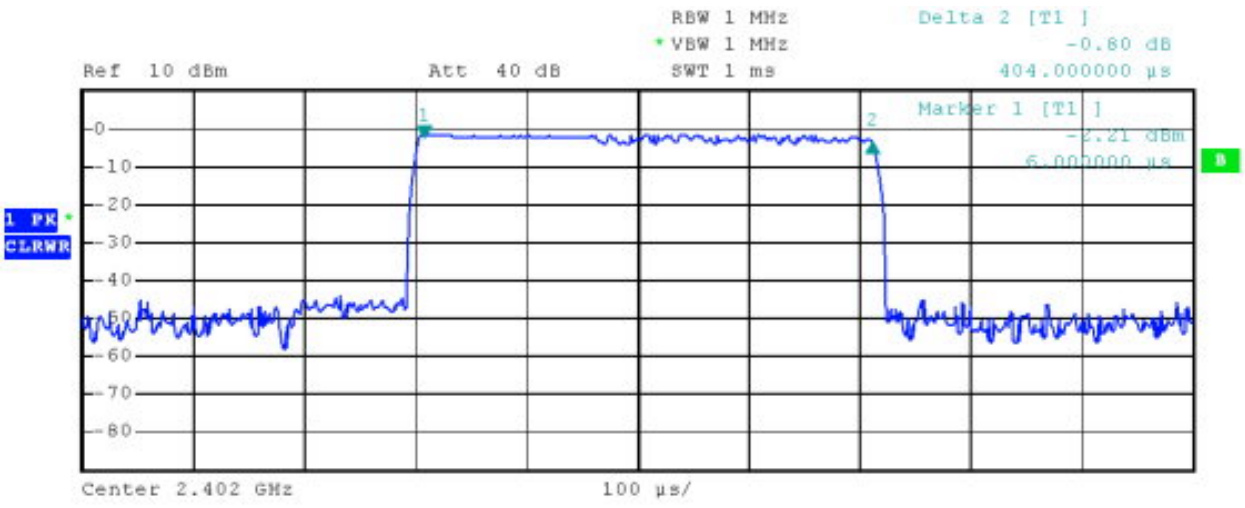
Same as section 4.1.5 of this report.

4.4.6 TEST RESULT

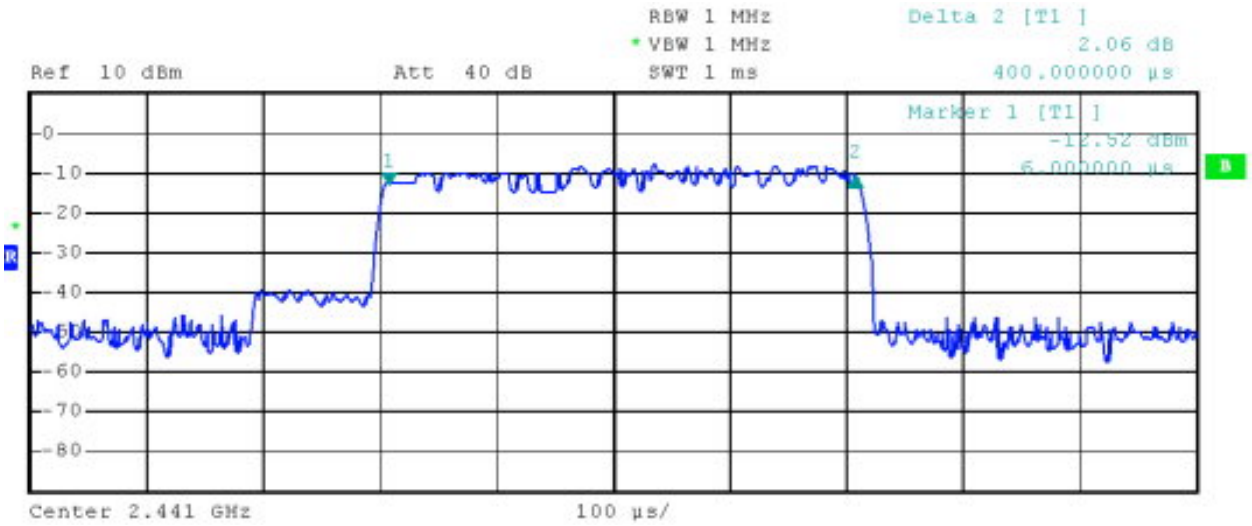
Temperature:	25°C	Humidity:	64%RH
Spectrum Detector:	PK	Tested by:	Shunm Wang
Test Result:	PASS	Tested Date:	Jun.24,2008

Channel Number	Channel Frequency (MHz)	Pulse Time (μs)	Time of Occupancy (Dwell Time) (ms)	Average Time of Occupancy Limit (ms)
0	2402.00	404	127.66	400
39	2441.00	400	126.4	400
78	2480.00	404	127.66	400

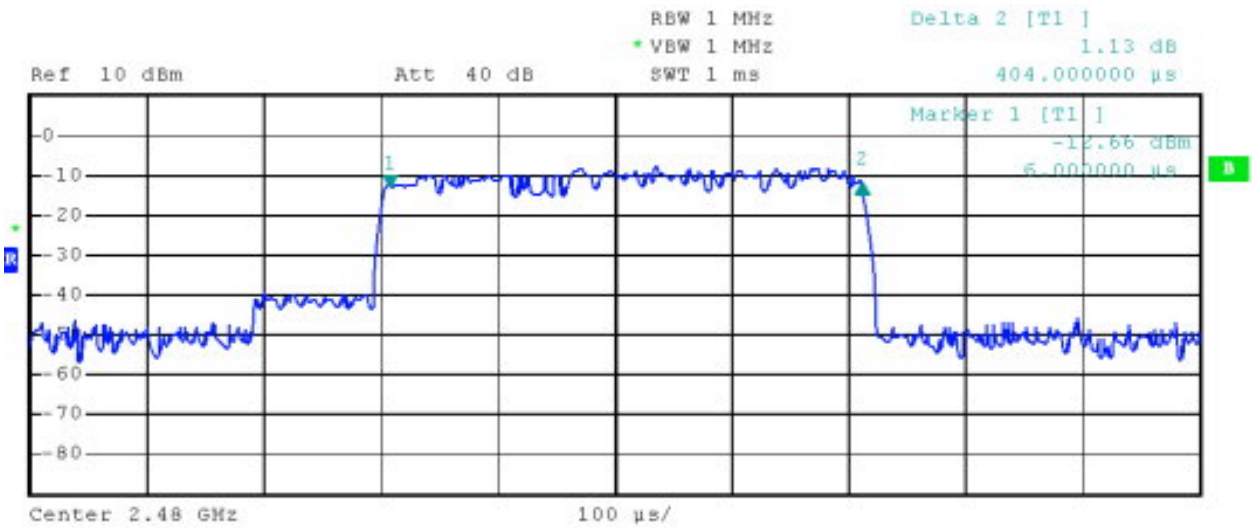
CH0:



Ch39:


RBW 1 MHz
VBW 1 MHz
SWT 1 ms
Delta 2 [T1]
2.06 dB
400.000000 µs
Ref 10 dBm
Att 40 dB
Marker 1 [T1]
-12.52 dBm
6.000000 µs
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.441 GHz
100 µs/

CH78:


RBW 1 MHz
VBW 1 MHz
SWT 1 ms
Delta 2 [T1]
1.13 dB
404.000000 µs
Ref 10 dBm
Att 40 dB
Marker 1 [T1]
-12.66 dBm
6.000000 µs
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.48 GHz
100 µs/

4.5 PEAK POWER TEST

4.5.1 LIMIT

FCC Part15, Subpart C Section 15.247.

Frequency Range (MHz)	Limit(w)				
	Quantity of Hopping Channel	50	25	15	75
902-928		1(30dBm)	0.125(21dBm)	NA	NA
2400-2483.5		NA	NA	0.125(21dBm)	1(30dBm)
5725-5850		NA	NA	NA	1(30dBm)

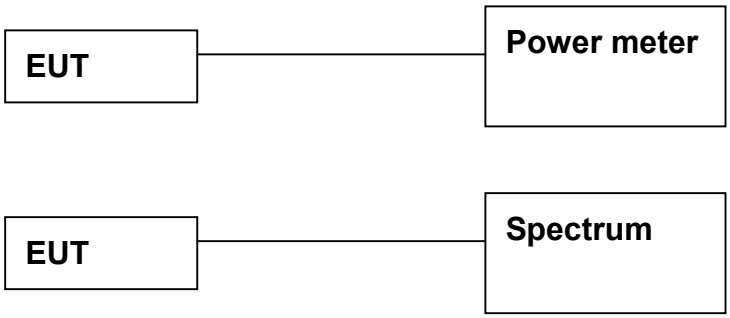
4.5.2 TEST EQUIPMENT

The following test equipment was used during the test：

Equipment/ Facilities	Specifications	Manufacturer	Model#/ Serial#	Due Date of Cal. & Cal. Center
SPECTRUM	9kHz-40GHz	ROHDE & SCHWARZ	FSP40/ 100093	SEP. 2008 ETC
POWER METER	N/A	BOONTON	4232A/ 29001	MAY 2009 ETC
POWER SENSOR	DC-8GHz 50 Ω	BOONTON	51011EMC/ 31181	JUN. 2008 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.5.4 TEST PROCEDURE

The EUT was operating in hopping mode or could control its channel.
Printed out the test result from the spectrum by hard copy function.
Recorded the read value of the power meter.

4.5.5 EUT OPERATING CONDITION

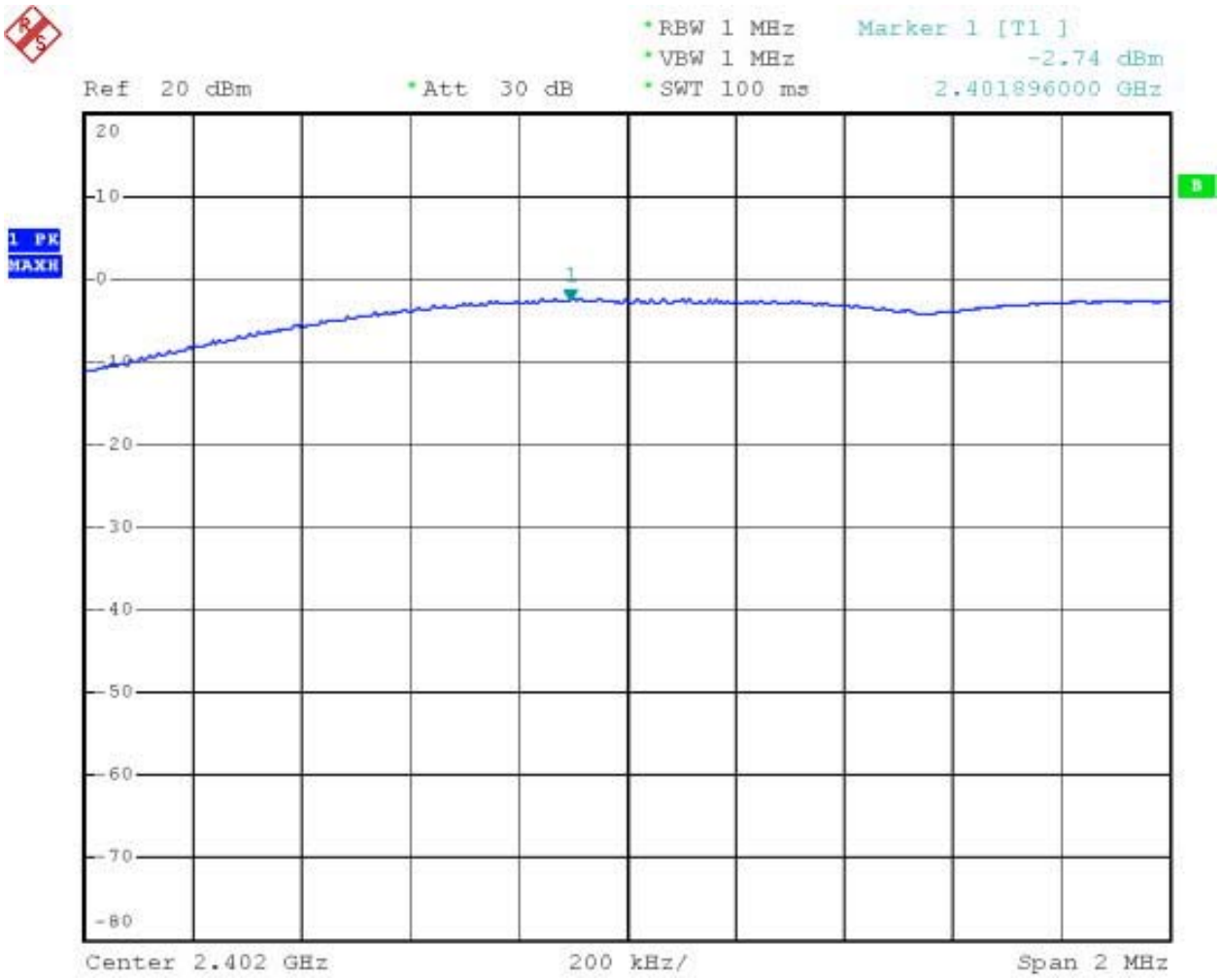
Same as section 4.1.5 of this report.

4.5.6 TEST RESULT

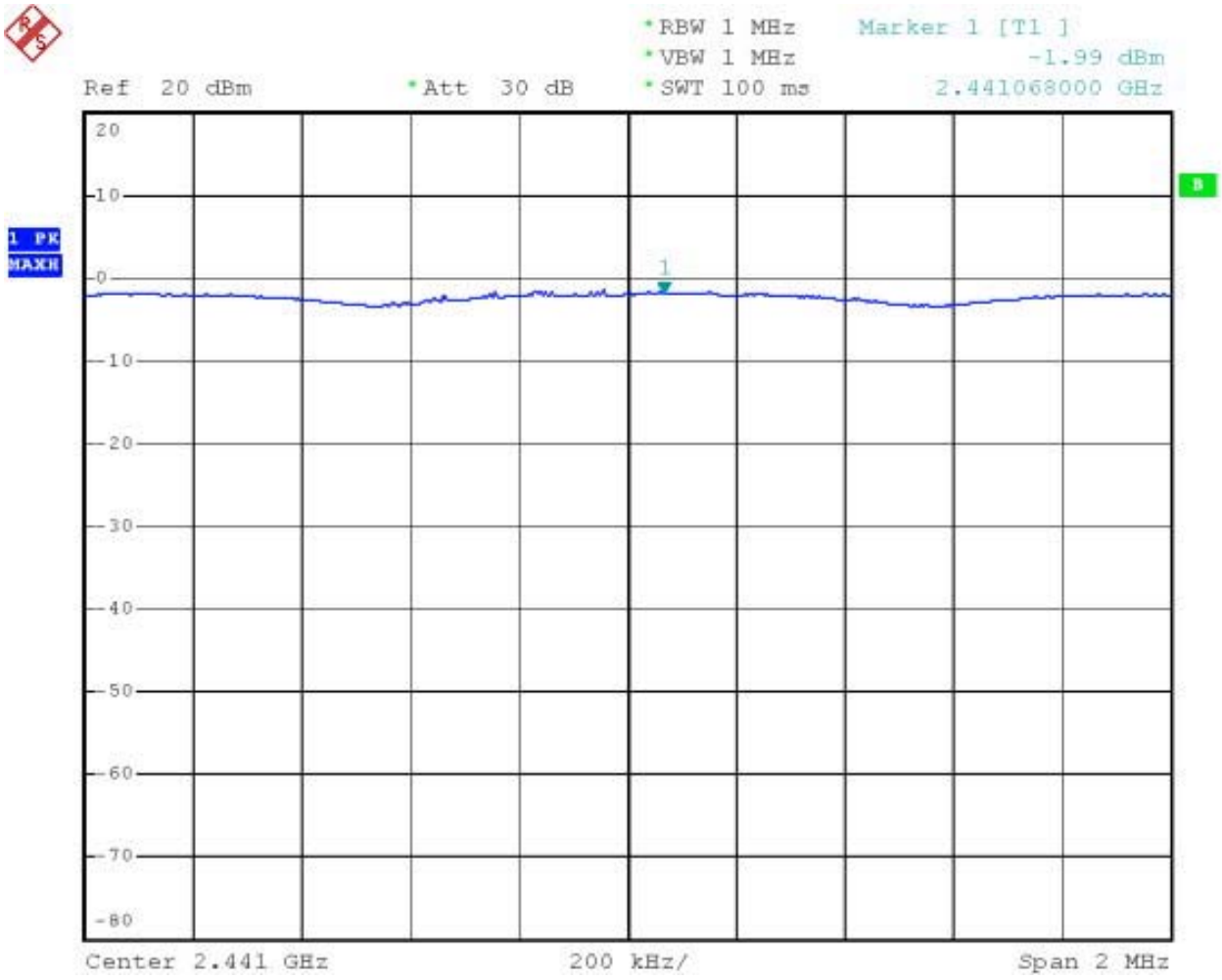
Temperature:	25°C	Humidity:	64%RH
Spectrum Detector:	PK	Tested by:	Shunm Wang
Test Result:	PASS	Tested Date:	Jun. 24, 2008

Channel Number	Channel Frequency (MHz)	Peak Output Power (dBm)	Peak Power Limit (dBm)
0	2402.0000	-2.74	30
39	2441.0000	-1.99	30
78	2480.0000	-2.47	30

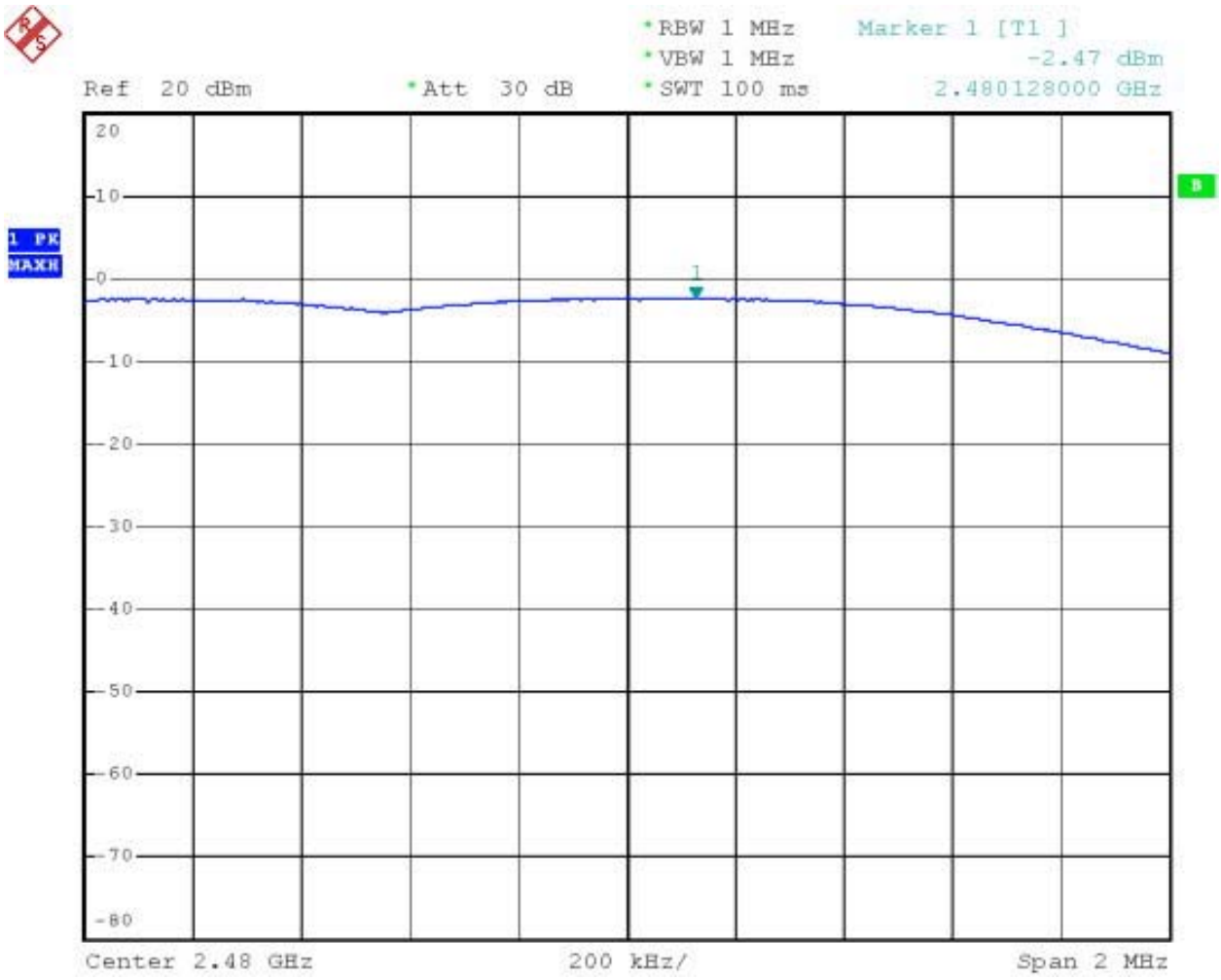
CH0:


*RBW 1 MHz
*VBW 1 MHz
*SWT 100 ms
Marker 1 [T1]
-2.74 dBm
2.401896000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.402 GHz
200 kHz/
Span 2 MHz

CH39:


*RBW 1 MHz
*VBW 1 MHz
*SWT 100 ms
Marker 1 [T1]
-1.99 dBm
2.441068000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.441 GHz
200 kHz/
Span 2 MHz

CH78:


RBW 1 MHz
VBW 1 MHz
SWT 100 ms
Marker 1 [T1]
-2.47 dBm
2.480128000 GHz
Ref 20 dBm
Att 30 dB
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.48 GHz
200 kHz/
Span 2 MHz

4.6 BAND EDGE TEST

4.6.1 LIMIT

FCC Part15, Subpart C Section 15.249 (c), Emission radiated outside of the specified frequency bands, except for harmonics, shall attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Operating Frequency Range (MHz)	Limit (dBμV/m)	
	Peak	Average
902-928	74	54
2400-2483.5		
5725-5850		

Wi-Fi:FCC Part15, Subpart C Section 15.247. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

OPERATING FREQUENCY RANGE (MHz)	SPURIOUS EMISSION FREQUENCY (MHz)	LIMIT	
		Peak power ration to emission(dBc)	Emission level(dBuV/m)
902 - 928	<902	>20	NA
	>928	>20	NA
	960-1240	NA	54
2400 - 2483.5	<2400	>20	NA
	>2483.5-2500	NA	54
5725 - 5850	<5350-5460	NA	54
	<5725	>20	NA
	>5850	>20	NA

4.6.2 TEST EQUIPMENT

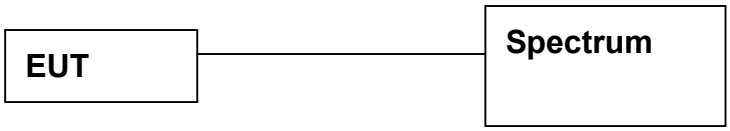
The following test equipment was used during the test：

Equipment/ Facilities	Specification	Manufacturer	Model#/ Serial#	Due Date of Cal. & Cal. Center
SPECTRUM	9kHz-40GHz	ROHDE & SCHWARZ	FSP40/ 100093	SEP. 2008 ETC
EMI TEST RECEIVER	9 kHz TO 2750 MHz	ROHDE & SCHWARZ	ESCS30/ 830245/012	OCT. 2008 ETC
SPECTRUM	9KHz-26.5GHz	HP	8953E/ 3710A03220	MAY 2008 ETC
PRE-AMPLIFIER	1GHz-26.5GHz Gain:30dB	HP	8449B/ 3008A01019	NOV. 2008 ETC
BI-LOG ANTENNA	25 MHz TO 2 GHz	EMCO	3142/ 9701-1124	FEB. 2009 SRT
HORN ANTENNA	1GHz to 18GHz	EMCO	3115/ 9602-4681	DEC. 2008 ETC
OATS	3 - 10 M measurement	SRT	SRT-1	APR. 2009 SRT

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

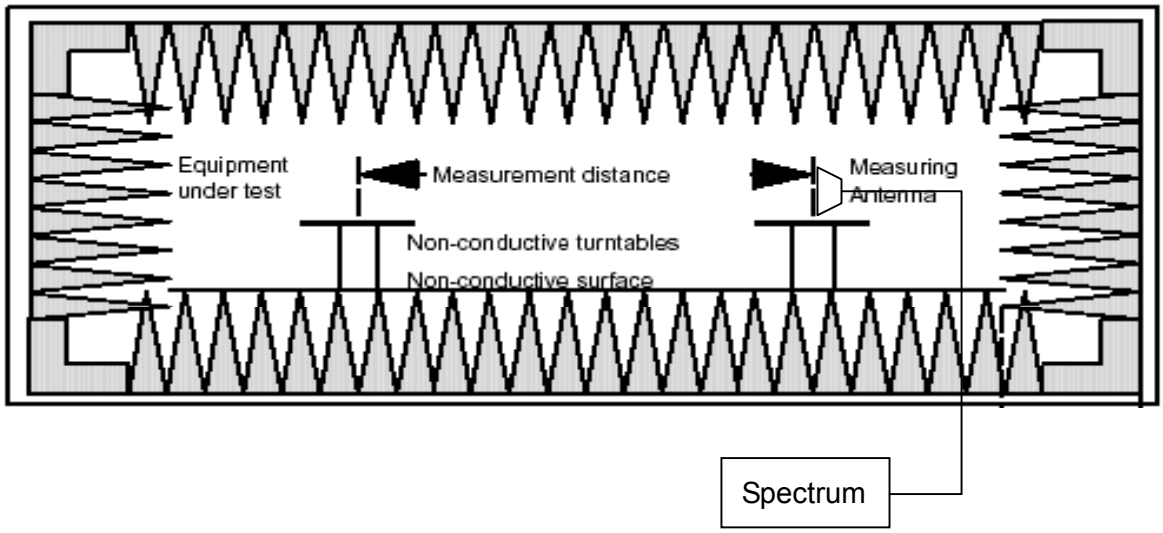
4.6.3 TEST SET-UP

FOR RF CONDUCTED TEST (dBc)



The EUT was connected to the spectrum through a 50Ω RF cable.

FOR RADIATED EMISSION TEST



NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

4.6.4 TEST PROCEDURE

1. The EUT was operating in hopping mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function.
2. The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22. The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

4.6.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

4.6.6 TEST RESULT

Temperature:	25°C	Humidity:	64%RH
Spectrum Detector:	PK & AV	Tested by:	Shunm Wang
Test Result:	PASS	Tested Date:	Jun. 24, 2008

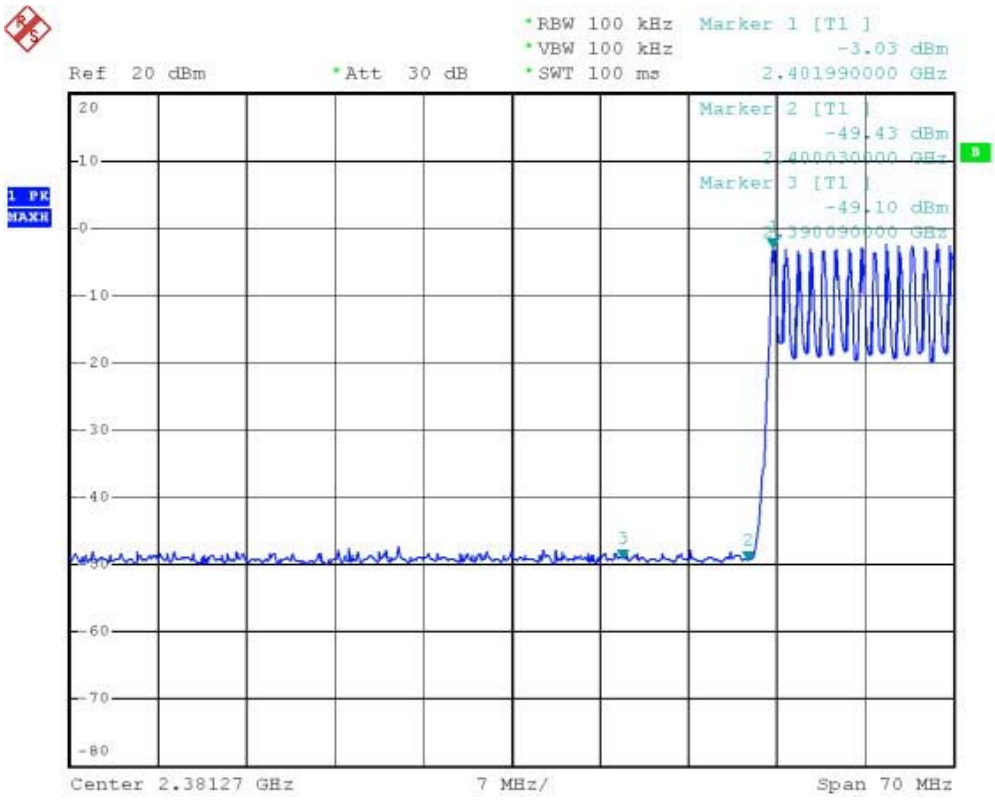
1.Conducted emission test

Frequency (MHz)	PEAK POWER OUTPUT (dBm)	Emission read Value (dBm)	Result of Band edge (dBc)	Band edge LIMIT (dBc)
<2400	-3.03	-49.43	46.40	>20dBc
>2483.5	-2.88	-49.74	46.86	>20dBc

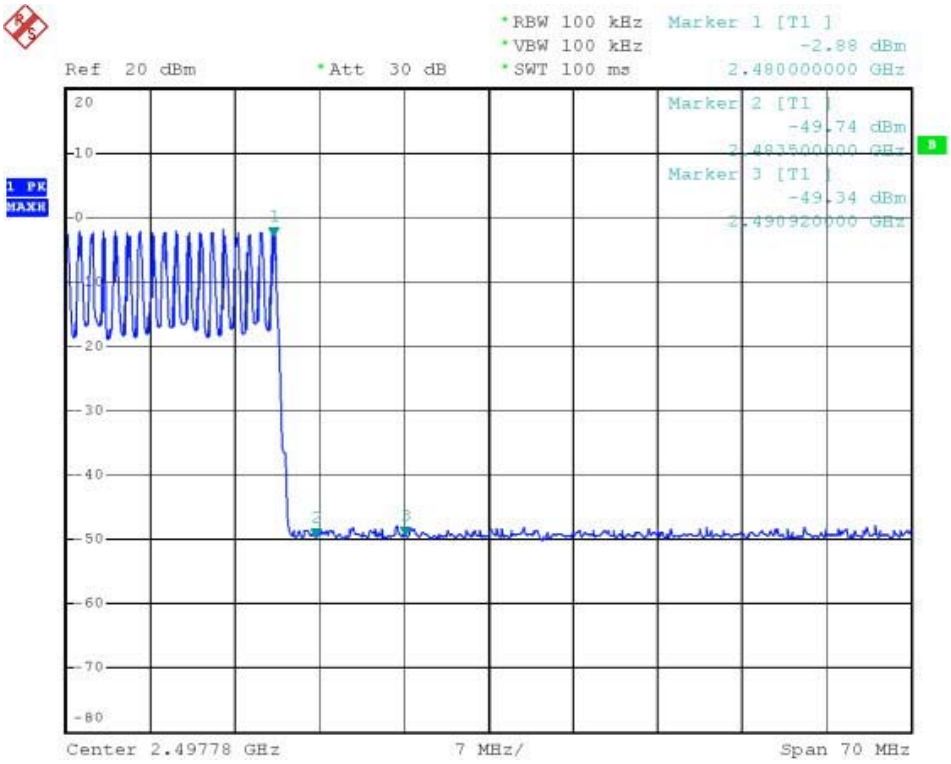
2.Radiated emission test

Frequency (MHz)	Antenna polarization (H/V)	Reading (dBuV)	Emission (dBuV/m)	Band edge Limit (dBuV)
		Strength	Strength	Strength
<2400	H	48.3	44.1	54.0
<2400	H	45.2	41.0	54.0
>2483.5	V	40.6	36.6	54.0
>2483.5	V	37.9	33.9	54.0

Ch0:


*RBW 100 kHz
*VBW 100 kHz
*SWT 100 ms
Marker 1 [T1]
-3.03 dBm
2.401990000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-49.43 dBm
2.400030000 GHz
Marker 3 [T1]
-49.10 dBm
2.390090000 GHz
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.38127 GHz
7 MHz/
Span 70 MHz

Ch78:


*RBW 100 kHz
*VBW 100 kHz
*SWT 100 ms
Marker 1 [T1]
-2.88 dBm
2.480000000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-49.74 dBm
Marker 3 [T1]
-49.34 dBm
2.490920000 GHz
1 PK
MAXH
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.49778 GHz
7 MHz/
Span 70 MHz

4.7 FUNDERMENTAL & SPURIOUS RADIATED EMISSION TEST

4.7.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Distance (m)	Field Strength (dBμV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
ABOVE 960	3	54.0

NOTE : 1. In the emission tables above , the tighter limit applies at the band edges.
2. Distance refers to the distance between measuring instrument , antenna , and the closest point of any part of the device or system.

FCC Part 15, Section15.35(b) limit of radiated emission for frequency above 1000 MHz

Frequency (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80.0	60.0	74.0	54.0

FCC Part 15, Subpart C Section 15.249. The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Filed Strength of Fundamental (dBuV/m) (at 3m)		Field Strength of Harmonics (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
902-928	114	94	74.0	54.0
2400-2483.5	114	94	74.0	54.0
5725-5875	114	94	74.0	54.0
24000-24250	128	108	88.0	68.0

4.7.2 TEST EQUIPMENT

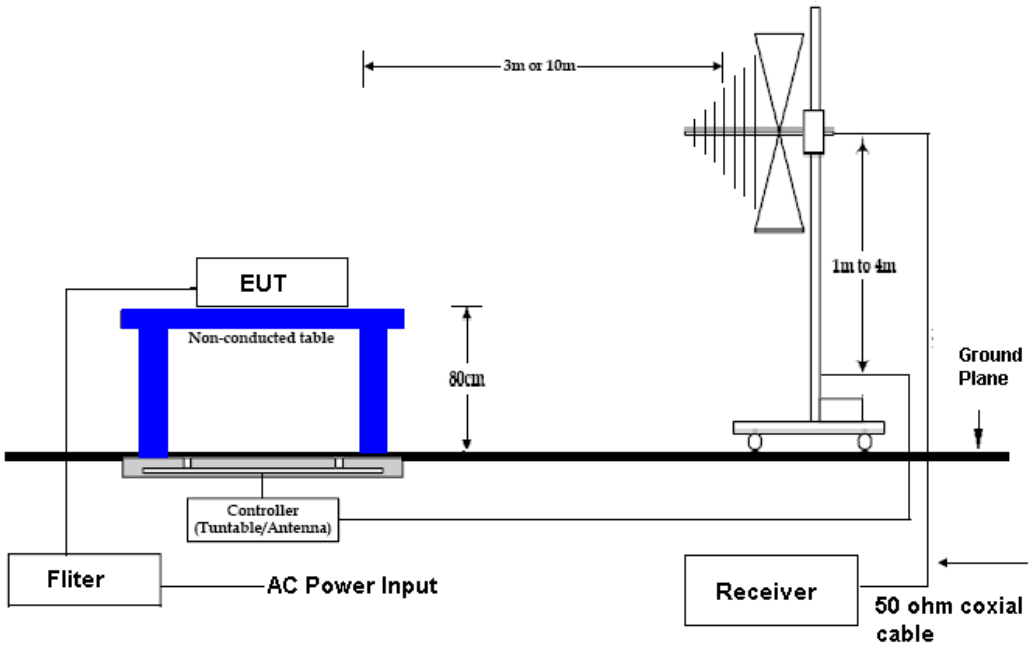
The following test equipment was used during the radiated emission test：

Equipment/ Facilities	Specification	Manufacturer	Model#/ Serial#	Due Date of Cal. & Cal. Center
EMI TEST RECEIVER	9kHz TO 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 830245/012	OCT. 2008 ETC
BI-LOG ANTENNA	26 MHz TO 2 GHz	EMCO	3142B / 0005-1534	NOV. 2008 ETC
OATS	3 – 10 M MEASUREMENT	SRT	SRT-1	NOV. 2008 SRT
COAXIAL CABLE	25M	TIMES	J400 / #25M	AUG. 2008 ETC
FILTER	2 LINE, 30A	FIL.COIL	FC-943 / 869	NCR
LOOP ANTENNA	9kHz TO 30MHz	ROHDE & SCHWARZ	HFH2-Z2	MAR. 2009

NOTE:

1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.
2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.

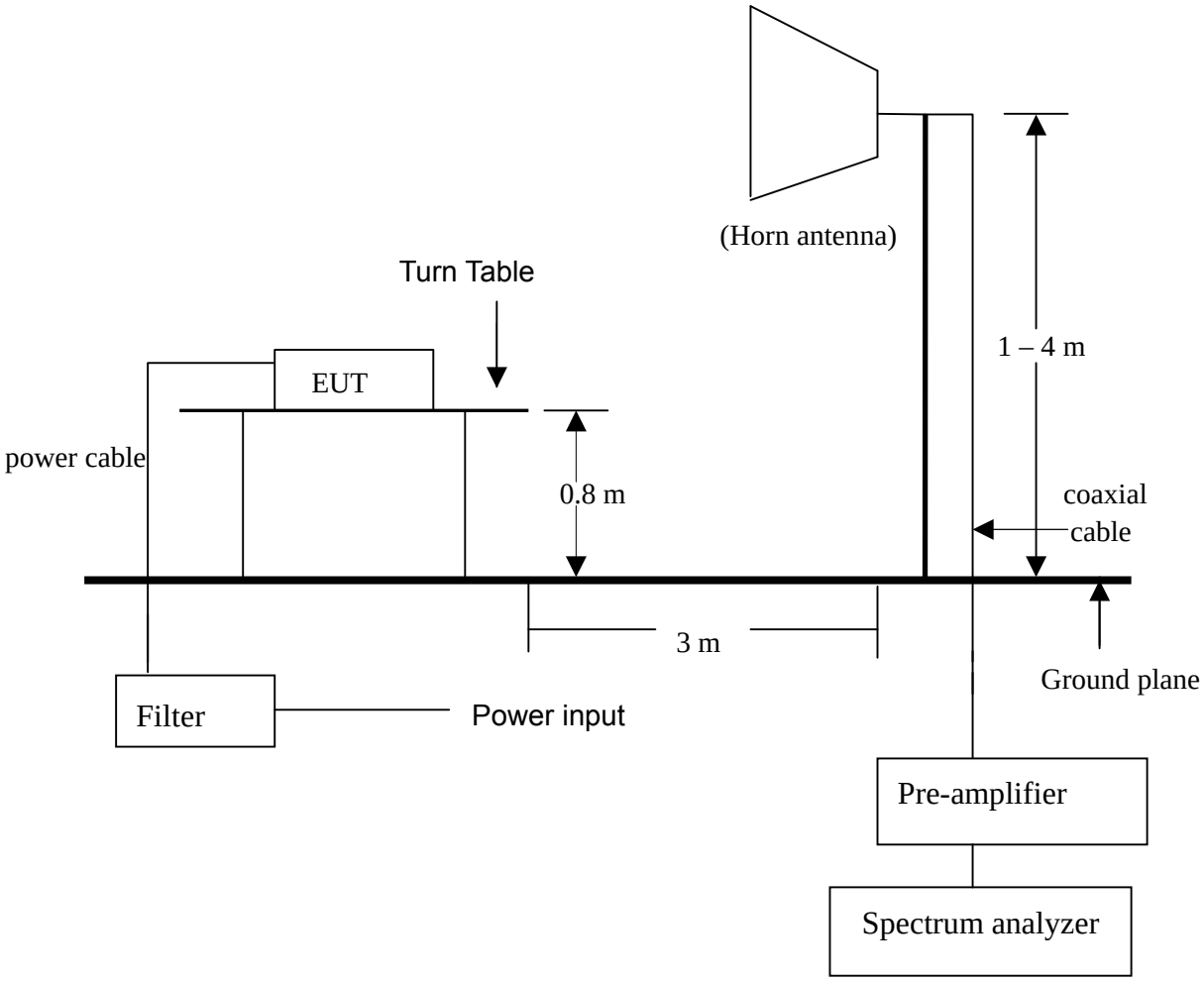
4.7.3 TEST SET-UP



NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

TEST SET- UP (1GHz - 25GHz)



NOTE :

1.The EUT system was put on a wooden table with 0.8m heights above a ground plane.

2.For the actual test configuration, please refer to the photos of testing.

4.7.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22. The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

4.7.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

4.7.6 TEST RESULT

Temperature:	30°C	Humidity:	62 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	Charge
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
108.1160	1.59	7.44	29.9	38.9	43.5	-4.6	251	2.1
419.9880	3.06	16.45	20.1	39.6	46.0	-6.4	136	1.8
444.0220	2.97	16.77	21.5	41.2	46.0	-4.8	224	1.6
697.0120	4.05	21.14	15.2	40.4	46.0	-5.6	51	1.31
732.6150	4.13	21.26	16.1	41.5	46.0	-4.5	81	1.29
765.8813	4.51	21.33	15.7	41.5	46.0	-4.5	209	1.22

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
108.1166	1.59	7.44	25.1	34.1	43.5	-9.4	244	1
336.0080	3.02	14.86	20.1	38.0	46.0	-8.0	156	1.2
396.0120	3.13	16.12	19.8	39.0	46.0	-7.0	233	1
408.0220	3.09	16.30	20.5	39.9	46.0	-6.1	92	1.15
420.0100	3.05	16.46	19.9	39.4	46.0	-6.6	130	1
432.0210	3.01	16.62	20.4	40.0	46.0	-6.0	263	1

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

Temperature:	30°C	Humidity:	62 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	Standby
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
35.2510	0.63	11.55	16.8	29.0	40.0	-11.0	151	3
46.5640	0.97	7.22	18.5	26.7	40.0	-13.3	39	2.8
65.8981	1.09	4.95	17.6	23.6	40.0	-16.4	305	2.7
80.2256	1.26	7.60	15.3	24.2	40.0	-15.8	274	2.5
180.5510	1.47	9.30	15.9	26.7	43.5	-16.8	169	2.1
332.9100	2.95	14.77	13.5	31.2	46.0	-14.8	83	2

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
35.2511	0.63	11.55	17.9	30.1	40.0	-9.9	148	1.3
46.5650	0.97	7.22	19.2	27.4	40.0	-12.6	42	1.2
56.2270	1.00	4.62	18.5	24.1	40.0	-15.9	111	1.4
65.8990	1.09	4.95	18.3	24.3	40.0	-15.7	299	1.1
80.2251	1.26	7.60	16.4	25.3	40.0	-14.7	268	1
133.0500	1.59	10.52	14.1	26.2	43.5	-17.3	101	1.1

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

Temperature:	30°C	Humidity:	62 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	TX_2402MHz
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
160.1710	1.71	8.20	16.1	26.0	43.5	-17.5	213	2.4
240.0350	2.10	11.08	14.9	28.1	46.0	-17.9	159	1.95
264.2790	2.36	12.23	13.8	28.4	46.0	-17.6	354	1.86
277.6130	2.49	12.90	15.1	30.5	46.0	-15.5	322	1.67
335.0360	3.01	14.84	13.5	31.3	46.0	-14.7	244	1.44
764.3740	4.49	21.33	10.1	35.9	46.0	-10.1	141	1.2

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
56.2260	1.00	4.62	20.0	25.6	40.0	-14.4	57	1
335.0361	3.01	14.84	14.0	31.8	46.0	-14.2	151	1
383.1360	3.18	15.84	15.1	34.1	46.0	-11.9	209	1
778.6150	4.78	21.36	11.2	37.3	46.0	-8.7	314	1
846.0260	4.60	22.69	9.9	37.2	46.0	-8.8	16	1.2
914.0350	4.76	23.82	6.7	35.3	46.0	-10.7	201	1

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

Temperature:	30°C	Humidity:	62 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	TX_2441MHz
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
160.1715	1.71	8.20	16.0	28.2	43.5	-17.6	215	2.41
240.0353	2.10	11.08	15.0	28.5	46.0	-17.8	156	1.96
264.2797	2.36	12.23	13.9	30.4	46.0	-17.5	359	1.85
277.6133	2.49	12.90	15.0	31.4	46.0	-15.6	320	1.68
335.0368	3.01	14.84	13.6	36.0	46.0	-14.6	248	1.45
764.3744	4.49	21.33	10.2	28.2	46.0	-10.0	138	1.21

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
56.2265	1.00	4.62	20.1	25.7	40.0	-14.3	54	1
335.0361	3.01	14.84	14.1	31.9	46.0	-14.1	156	1.02
383.1369	3.18	15.84	15.0	34.0	46.0	-12.0	213	1
778.6152	4.78	21.36	11.1	37.2	46.0	-8.8	310	1.01
846.0261	4.60	22.69	10.0	37.3	46.0	-8.7	20	1.21
914.0353	4.76	23.82	6.8	35.4	46.0	-10.6	204	1

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

Temperature:	30°C	Humidity:	62 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	TX_2480MHz
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
160.1713	1.71	8.20	16.2	26.1	43.5	-17.4	211	2.39
240.0352	2.10	11.08	14.8	28.0	46.0	-18.0	161	1.94
264.2794	2.36	12.23	13.9	28.5	46.0	-17.5	352	1.85
277.6138	2.49	12.90	15.0	30.4	46.0	-15.6	325	1.66
335.0365	3.01	14.84	13.6	31.4	46.0	-14.6	241	1.45
764.3741	4.49	21.33	10.2	36.0	46.0	-10.0	146	1.19

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
56.2269	1.00	4.62	19.9	25.5	40.0	-14.5	52	1.01
335.0368	3.01	14.84	14.1	31.9	46.0	-14.1	156	1
383.1362	3.18	15.84	15.2	34.2	46.0	-11.8	205	1
778.6151	4.78	21.36	11.1	37.2	46.0	-8.8	313	1
846.0268	4.60	22.69	9.8	37.1	46.0	-8.9	19	1.19
914.0358	4.76	23.82	6.6	35.2	46.0	-10.8	198	1

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

Temperature:	30 °C	Humidity:	62 %RH
Frequency Range:	1 – 25 GHz	Measured Distance:	3m
Receiver Detector:	PK. or AV.	Tested Mode:	TX-2402MHz
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2402.06	-32.16	28.54	92.5	90.2	88.9	86.6	114.0	94.0	-25.1	-7.4	102	1.90
4804.12	-30.47	33.64	53.1	44.9	56.3	48.1	74.0	54.0	-17.7	-5.9	151	1.82
7206.18	-28.90	36.26	48.5	39.7	55.9	47.1	74.0	54.0	-18.1	-6.9	37	1.77
1328.45	-33.23	24.92	45.2	*	36.9	*	74.0	54.0	-37.1	*	251	1.53
1823.51	-33.05	26.53	56.7	46.5	50.2	40.0	74.0	54.0	-23.8	-14.0	241	1.31
1910.22	-32.61	26.86	55.9	45.1	50.1	39.3	74.0	54.0	-23.9	-14.7	18	1.28

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2402.06	-32.16	28.00	94.9	92.8	90.7	88.6	114.0	94.0	-23.3	-5.4	99	1.88
4804.12	-30.47	33.64	54.1	44.6	57.3	47.8	74.0	54.0	-16.7	-6.2	310	1.63
7206.18	-28.90	36.26	46.2	37.9	53.6	45.3	74.0	54.0	-20.4	-8.7	155	1.57
1333.15	-33.13	24.93	48.5	39.5	40.3	31.3	74.0	54.0	-33.7	-22.7	28	1.71
1460.56	-29.94	25.21	47.9	*	43.2	*	74.0	54.0	-30.8	*	252	1.49
1823.56	-33.05	26.53	52.5	42.4	46.0	35.9	74.0	54.0	-28.0	-18.1	55	1.30

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

Temperature:	30 °C	Humidity:	62 %RH
Frequency Range:	1 – 25 GHz	Measured Distance:	3m
Receiver Detector:	PK. or AV.	Tested Mode:	TX-2441MHz
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2441.05	-32.23	28.62	93.3	91.5	89.7	87.9	114.0	94.0	-24.3	-6.1	104	1.91
4882.10	-30.26	33.71	53.2	45.0	56.6	48.4	74.0	54.0	-17.4	-5.6	150	1.81
7323.15	-29.04	36.36	48.4	39.8	55.7	47.1	74.0	54.0	-18.3	-6.9	36	1.78
1328.45	-33.23	24.92	45.3	40.2	37.0	31.9	74.0	54.0	-37.0	-22.1	253	1.52
1823.51	-33.05	26.53	56.6	46.4	50.1	39.9	74.0	54.0	-23.9	-14.1	243	1.32
1910.22	-32.61	26.86	55.8	45.2	50.0	39.4	74.0	54.0	-24.0	-14.6	14	1.27

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2441.05	-32.23	28.08	95.8	93.9	91.7	89.8	114.0	94.0	-22.3	-4.2	100	1.87
4882.10	-30.26	33.71	54.2	44.7	57.6	48.1	74.0	54.0	-16.4	-5.9	313	1.64
7323.15	-29.04	36.36	46.1	39.9	53.4	47.2	74.0	54.0	-20.6	-6.8	154	1.58
1333.15	-33.13	24.93	48.4	39.6	40.2	31.4	74.0	54.0	-33.8	-22.6	26	1.72
1460.56	-29.94	25.21	47.8	*	43.1	*	74.0	54.0	-30.9	*	253	1.50
1823.56	-33.05	26.53	52.6	42.3	46.1	35.8	74.0	54.0	-27.9	-18.2	45	1.31

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

Temperature:	30 °C	Humidity:	62 %RH
Frequency Range:	1 – 25 GHz	Measured Distance:	3m
Receiver Detector:	PK. or AV.	Tested Mode:	TX-2480MHz
Tested By:	Shunm Wang	Tested Date:	Jun. 25, 2008

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2480.06	-32.19	28.73	95.1	93.8	91.6	90.3	114.0	94.0	-22.4	-3.7	100	1.89
4960.12	-30.26	33.77	53.2	45.0	56.7	48.5	74.0	54.0	-17.3	-5.5	155	1.84
7440.18	-28.95	36.45	48.6	39.9	56.1	47.4	74.0	54.0	-17.9	-6.6	33	1.75
1328.45	-33.23	24.92	45.3	*	37.0	*	74.0	54.0	-37.0	*	248	1.52
1823.51	-33.05	26.53	56.8	46.4	50.3	39.9	74.0	54.0	-23.7	-14.1	244	1.33
1910.22	-32.61	26.86	56.0	45.3	50.2	39.5	74.0	54.0	-23.8	-14.5	23	1.27

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2480.06	-32.19	28.16	96.8	94.1	92.8	90.1	114.0	94.0	-21.2	-3.9	101	1.89
4960.12	-30.26	33.77	54.0	44.7	57.5	48.2	74.0	54.0	-16.5	-5.8	305	1.64
7440.18	-28.95	36.45	46.3	40.2	53.8	47.7	74.0	54.0	-20.2	-6.3	158	1.55
1333.15	-33.13	24.93	48.7	39.7	40.5	31.5	74.0	54.0	-33.5	-22.5	21	1.72
1460.56	-29.94	25.21	48.0	*	43.3	*	74.0	54.0	-30.7	*	254	1.50
1823.56	-33.05	26.53	52.6	42.6	46.1	36.1	74.0	54.0	-27.9	-17.9	56	1.32

NOTE :

1. Measurement uncertainty is +/-2dB.
2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

5. CONDUCTED EMISSION TEST FOR POWER PORT

5.1 LIMIT

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE :

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.2 TEST EQUIPMENT

The following test equipment was used for the test:

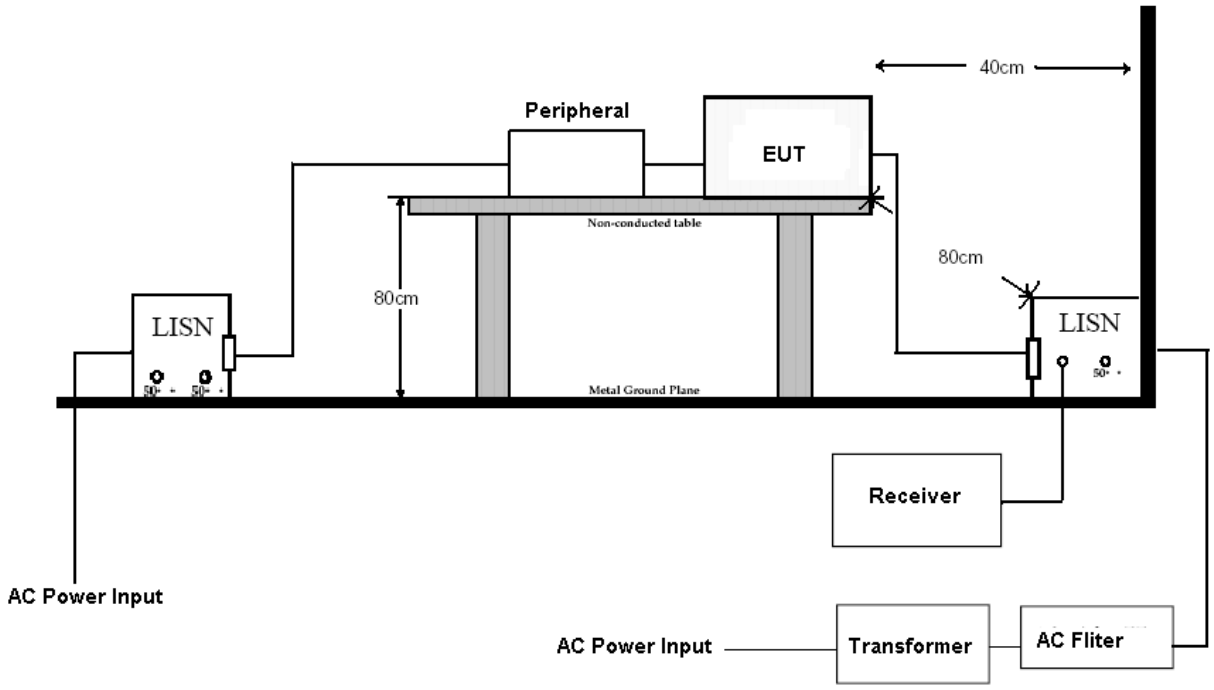
EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9 kHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30 / 826003/008	SEP. 2008 ETC
LISN	50 μH, 50 ohm	FCC	FCC-LISN-50-25-2 / 01017	OCT. 2008 ETC
LISN	50μH, 50 ohm	FCC	9252-50-R24-BNC / 951315	JUN. 2008 ETC
50 OHM TERMINATOR	50 ohm	HP	11593A / #2	OCT. 2008 ETC
COAXIAL CABLE	5M	TIMES	EQM-0159 / #5-5m	AUG. 2008 SRT
FILTER	2 LINE, 30A	FIL.COIL	FC-943 / 771	NCR
GROUND PLANE	2.3M (H) x 2.4M (W)	SRT	N/A	NCR
GROUND PLANE	2.4M (H) x 2.4M (W)	SRT	N/A	NCR

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

5.3 TEST PROCEDURE

According to FCC Part15, Subpart C

5.4 TEST SETUP



NOTE:

1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.
3. The serial no. of the LISN connected to EUT is 01017.
4. The serial no. of the LISN connected to support units is 01018.

5.5 TEST RESULT

Temperature:	23 °C	Humidity:	61 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	Charge
Receiver Detector:	Q.P. and AV.	Modulation Type:	N/A
Tested By:	Shunm Wang	Tested Channel:	N/A
		Tested Date:	Jun. 14, 2008

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.180	0.30	41.14	28.16	41.44	28.46	64.47	54.47	-23.03	-26.01
0.183	0.30	39.90	27.59	40.20	27.89	64.33	54.33	-24.13	-26.44
0.572	0.24	23.40	22.07	23.64	22.31	56.00	46.00	-32.36	-23.69
2.962	0.18	15.26	13.41	15.44	13.59	56.00	46.00	-40.56	-32.41
14.318	0.25	23.82	23.22	24.07	23.47	60.00	50.00	-35.93	-26.53
23.671	0.39	27.40	20.03	27.79	20.42	60.00	50.00	-32.21	-29.58

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.180	0.30	41.74	29.42	42.04	29.72	64.47	54.47	-22.43	-24.75
0.183	0.30	40.50	28.64	40.80	28.94	64.33	54.33	-23.53	-25.39
0.572	0.24	18.94	17.15	19.18	17.39	56.00	46.00	-36.82	-28.61
14.135	0.25	15.00	8.94	15.25	9.19	60.00	50.00	-44.75	-40.81
14.318	0.25	23.88	23.32	24.13	23.57	60.00	50.00	-35.87	-26.43
23.600	0.29	28.76	19.22	29.05	19.51	60.00	50.00	-30.95	-30.49

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

6. Antenna application

6.1 Antenna requirement

The EUT's antenna is met the requirement of FCC part15C section15.203 and 15.204.

6.2 Result

The EUT's antenna used a PCB Printing Antenna on PCB. The antenna's gain is 2 dBi and meets the requirement.

7. TERMS OF ABBREVIATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction