



Spectrum Research & Testing Lab., Inc.
No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan

TEST REPORT

Reference No.:A04050704
Report No.:FCCA04050704
FCC ID:RCCBT
Page:1 of 56
Date: May 27, 2004

Product Name: BlueGPS
Model No.: RBT-1000, RBT-1100, RBT-1200, RBT-1300
PBT-1000, PBT-1100, PBT-1200, PBT-1300
Trade Name: RoyalTek, Route 66, Pretec
Applicant: RoyalTek Company Ltd.
1071 Chung Cheng RD., Suite 9F-1,
Tao Yuan City, Taiwan, R.O.C.
Date of Receipt: May 07, 2004
Finished date of Test: May 26, 2004
Applicable Standards: 47 CFR Part 15, Subpart C
ANSI C63.4:2003

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 : Ken Su for , Date: 05/27/2004
(Sunyou Chen)

Approved By : JH , Date: 5/27/2004
(Johnson Ho, Director)

NVLAQ[®]

Lab Code: 200099-0



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Date: May 27, 2004

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.

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.



2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BlueGPS
MODEL NO.	RBT-1000, RBT-1100, RBT-1200, RBT-1300 PBT-1000, PBT-1100, PBT-1200, PBT-1300
BRAND NAME	RoyalTek, Route 66, Pretec
POWER SUPPLY	+5 Vdc
CABLE	N/A
I/O PORT	Bluetooth
FREQUENCY BAND	2400~2483.5 MHz
CARRIER FREQUENCY	CH0: 2402MHz~CH78: 2480MHz
NUMBER OF CHANNEL	79
CHANNEL SPACING	1 MHz
RATED RF OUTPUT POWER	-6~ 0dBm
MODULATION TYPE	GFSK
BIT RATE OF TRANSMISSION	721Kbps
ANTENNA TYPE	Chip antenna (Mono Pole)

NOTE :

The EUT has eight model numbers as above on market. They are identical in all aspects except for the different customers and brand names.

“RoyalTek” and “Route 66” are for RBT-1000, RBT-1100, RBT-1200, RBT-1300.

“Pretec” is for PBT-1000, PBT-1100, PBT-1200, PBT-1300.

For more detailed features, please refer to the manufacturer’s specification or User’s Manual of EUT.



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.	Notebook	DELL	PP01L	DOC	N/A
2	Bluetooth USB Dongle	CELLINK	BTA-3000	PQY-4710874200258	N/A

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

2.3 DESCRIPTION OF TEST MODE

This EUT is a FHSS system, we use Sirfdemo330R1 to control the EUT with RS232, let EUT hopping on and transmit at every channel with highest power. Only output power use conducted method, others are using radiated method. After Sirfdemo330R1 send the command to EUT, it can be removed, and the EUT keep hopping. 79 channels are provided by EUT. The 3 channels of lowest, medium and highest 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 78, 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 DA00-705 (March 2000)

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



4 TECHNICAL CHARACTERISTICS TEST

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	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.

4.1.2 TEST EQUIPMENT

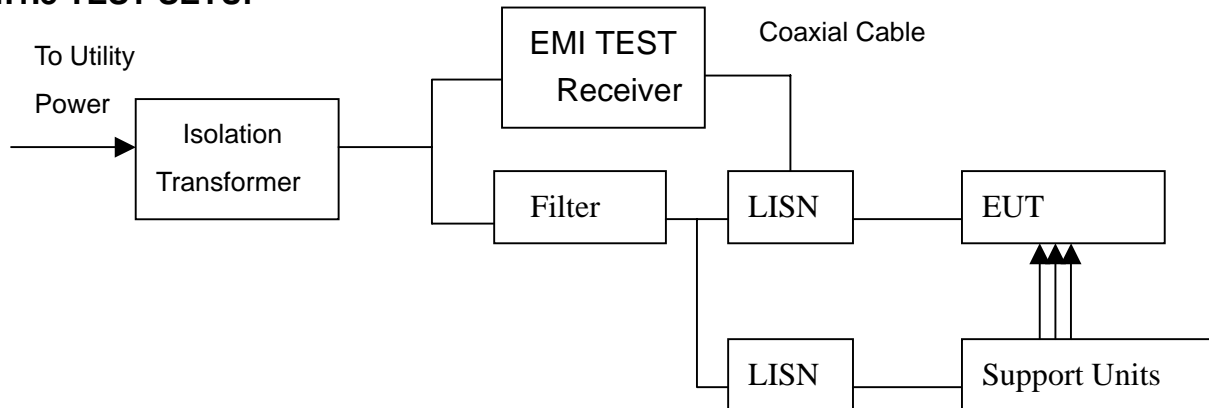
The following test equipment was used for the test:

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	AUG. 2004 ETC
LISN (for EUT)	50 μ H, 50 ohm	SOLAR ELECTRONICS	8012-50-R-24-BNC / 924839	JUN. 2004 ETC
LISN (for Peripheral)	50 μ H, 50 ohm	SOLAR ELECTRONICS	9252-50-R-24-BNC / 951318	JUN. 2004 ETC
50 ohm TERMINATOR	50 ohm	HP	11593A/ 2	JUN. 2004 ETC
COAXIAL CABLE	3m	SUNCITY	J400/ 3M	AUG. 2004 SRT
ISOLATION TRANSFORMER	N/A	APC	AFC-11015/ F102040016	N/A
FILTER	2 LINE, 30A	FIL.COIL	FC-943/ 771	N/A
GROUND PLANE	2.3M (H) x 2.4M (W)	SRT	N/A	N/A
GROUND PLANE	2.4M (H) x 2.4M (W)	SRT	N/A	N/A

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 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.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50µH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

4.1.5 EUT OPERATING CONDITION

Set the EUT under transmission condition continuously at a specific channel frequency. Under Windows XP ran "SIRFSTAR Demo 3.30" program, PC sent "H" pattern or accessed the following peripherals :

- RS232 (modem)
- Printer
- FDD
- HDD



4.1.6 TEST RESULT

Temperature:	25 °C	Humidity:	50 %RH
Ferquency Range:	0.15 – 30 MHz	Test Mode:	Adapter (Ch 0)
Receiver Detector:	Q.P. and AV.	Tested By:	Hugo Yeh
Tested Date:	May 24, 2004		

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.177	0.40	53.3	30.9	53.7	31.3	64.6	54.6	-10.9	-23.3
1.982	0.20	39.9	26.6	40.1	26.8	56.0	46.0	-15.9	-19.2
1.992	0.20	39.0	25.6	39.2	25.8	56.0	46.0	-16.8	-20.2
5.132	0.20	19.2	12.1	19.4	12.3	60.0	50.0	-40.6	-37.7
5.223	0.20	18.2	12.0	18.4	12.2	60.0	50.0	-41.6	-37.8
29.299	0.28	9.2	2.0	9.5	2.3	60.0	50.0	-50.5	-47.7

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.153	0.40	54.1	38.7	54.5	39.1	65.8	55.8	-11.3	-16.8
2.071	0.20	38.4	24.3	38.6	24.5	56.0	46.0	-17.4	-21.6
2.091	0.20	42.7	25.6	42.9	25.8	56.0	46.0	-13.1	-20.2
5.010	0.20	19.6	12.9	19.8	13.1	60.0	50.0	-40.2	-36.9
5.335	0.20	17.6	10.9	17.8	11.1	60.0	50.0	-42.2	-38.9
29.237	0.28	9.5	2.1	9.8	2.4	60.0	50.0	-50.2	-47.6

NOTE :

1. Measurement uncertainty is less than +/-1.32dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. "**": Measurement does not apply for this frequency.
5. Margin value = Emission level - Limit
6. The emission of other frequencies were very low against the limit.
7. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Temperature:	<u>25 °C</u>	Humidity:	<u>50 %RH</u>
Ferquency Range:	<u>0.15 – 30 MHz</u>	Test Mode:	<u>Adapter (Ch 39)</u>
Receiver Detector:	<u>Q.P. and AV.</u>	Tested By:	<u>Hugo Yeh</u>
Tested Date:	<u>May 24, 2004</u>		

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.
0.186	0.40	49.3	30.6	49.7	31.0	64.2	54.2	-14.5	-23.2
1.883	0.20	40.0	25.7	40.2	25.9	56.0	46.0	-15.8	-20.1
2.081	0.20	37.6	24.2	37.8	24.4	56.0	46.0	-18.2	-21.6
5.548	0.20	19.3	11.2	19.5	11.4	60.0	50.0	-40.5	-38.6
6.918	0.20	16.8	9.4	17.0	9.6	60.0	50.0	-43.0	-40.4
16.927	0.20	8.8	2.3	9.0	2.5	60.0	50.0	-51.0	-47.5

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.
0.444	0.34	43.5	28.6	43.8	28.9	57.0	47.0	-13.1	-18.1
1.497	0.20	40.9	27.2	41.1	27.4	56.0	46.0	-14.9	-18.6
2.002	0.20	37.6	23.9	37.8	24.1	56.0	46.0	-18.2	-21.9
5.010	0.20	22.7	13.1	22.9	13.3	60.0	50.0	-37.1	-36.7
5.061	0.20	21.6	12.5	21.8	12.7	60.0	50.0	-38.2	-37.4
28.704	0.27	9.6	2.1	9.9	2.3	60.0	50.0	-50.1	-47.7

NOTE :

1. Measurement uncertainty is less than +/-1.32dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. "**": Measurement does not apply for this frequency.
5. Margin value = Emission level - Limit
6. The emission of other frequencies were very low against the limit.
7. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Temperature:	25 °C	Humidity:	50 %RH
Ferquency Range:	0.15 – 30 MHz	Test Mode:	Adapter (Ch 78)
Receiver Detector:	Q.P. and AV.	Tested By:	Hugo Yeh
Tested Date:	May 24, 2004		

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.
0.177	0.40	56.7	42.2	57.1	42.6	64.6	54.6	-7.5	-12.0
2.071	0.20	43.5	22.6	43.7	22.8	56.0	46.0	-12.3	-23.3
2.081	0.20	45.9	25.3	46.1	25.5	56.0	46.0	-9.9	-20.6
5.173	0.20	22.7	12.6	22.9	12.8	60.0	50.0	-37.1	-37.3
5.193	0.20	22.1	11.5	22.3	11.7	60.0	50.0	-37.7	-38.3
29.412	0.29	11.4	3.1	11.7	3.4	60.0	50.0	-48.3	-46.6

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.
0.159	0.40	54.4	38.9	54.8	39.3	65.5	55.5	-10.7	-16.2
1.923	0.20	41.9	29.0	42.1	29.2	56.0	46.0	-13.9	-16.8
1.962	0.20	41.5	28.7	41.7	28.9	56.0	46.0	-14.3	-17.1
5.000	0.20	20.4	13.6	20.6	13.8	56.0	46.0	-35.4	-32.2
5.010	0.20	19.9	13.4	20.1	13.6	60.0	50.0	-39.9	-36.4
29.842	0.30	10.2	2.5	10.5	2.8	60.0	50.0	-49.5	-47.2

NOTE :

1. Measurement uncertainty is less than +/-1.32dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. "**": Measurement does not apply for this frequency.
5. Margin value = Emission level - Limit
6. The emission of other frequencies were very low against the limit.
7. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Temperature:	25 °C	Humidity:	50 %RH
Ferquency Range:	0.15 – 30 MHz	Test Mode:	Charger (Ch 0)
Receiver Detector:	Q.P. and AV.	Tested By:	Hugo Yeh
Tested Date:	May 24, 2004		

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.300	0.36	28.3	10.4	28.7	10.7	60.2	50.2	-31.6	-39.5
1.230	0.20	13.0	4.0	13.2	4.2	56.0	46.0	-42.8	-41.8
1.279	0.20	8.5	0.3	8.7	0.5	56.0	46.0	-47.3	-45.5
10.126	0.20	15.2	13.6	15.4	13.8	60.0	50.0	-44.6	-36.2
10.298	0.20	15.5	14.0	15.7	14.2	60.0	50.0	-44.3	-35.8
15.338	0.20	11.7	0.6	11.9	0.8	60.0	50.0	-48.1	-49.2

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.291	0.38	32.0	30.9	32.3	31.3	60.5	50.5	-28.1	-19.2
1.457	0.20	13.9	8.8	14.1	9.0	56.0	46.0	-41.9	-37.0
3.932	0.20	8.1	1.6	8.3	1.8	56.0	46.0	-47.7	-44.2
9.811	0.20	16.4	15.0	16.6	15.2	60.0	50.0	-43.4	-34.8
10.126	0.20	19.6	17.8	19.8	18.0	60.0	50.0	-40.2	-32.0
17.860	0.20	16.5	8.2	16.7	8.4	60.0	50.0	-43.3	-41.6

NOTE :

1. Measurement uncertainty is less than +/-1.32dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. "**": Measurement does not apply for this frequency.
5. Margin value = Emission level - Limit
6. The emission of other frequencies were very low against the limit.
7. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Temperature:	25 °C	Humidity:	50 %RH
Ferquency Range:	0.15 – 30 MHz	Test Mode:	Charger (Ch 39)
Receiver Detector:	Q.P. and AV.	Tested By:	Hugo Yeh
Tested Date:	May 24, 2004		

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.294	0.38	31.9	30.5	32.3	30.9	60.4	50.4	-28.1	-19.5
1.200	0.20	12.8	2.9	13.0	3.1	56.0	46.0	-43.0	-42.9
1.210	0.20	12.4	4.3	12.6	4.5	56.0	46.0	-43.4	-41.5
10.095	0.20	13.1	11.0	13.3	11.2	60.0	50.0	-46.7	-38.8
10.420	0.20	13.6	11.3	13.8	11.5	60.0	50.0	-46.2	-38.6
23.497	0.20	-2.4	-6.9	-2.2	-6.7	60.0	50.0	-62.2	-56.7

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.297	0.38	27.4	22.2	27.7	22.6	60.3	50.3	-32.6	-27.7
4.031	0.20	8.5	1.2	8.7	1.4	56.0	46.0	-47.3	-44.6
4.081	0.20	9.3	1.9	9.5	2.1	56.0	46.0	-46.5	-43.9
10.593	0.20	19.8	18.2	20.0	18.4	60.0	50.0	-40.0	-31.6
14.328	0.20	14.1	2.8	14.3	3.0	60.0	50.0	-45.7	-47.0
17.428	0.20	19.6	8.3	19.8	8.5	60.0	50.0	-40.2	-41.5

NOTE :

1. Measurement uncertainty is less than +/-1.32dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. "**": Measurement does not apply for this frequency.
5. Margin value = Emission level - Limit
6. The emission of other frequencies were very low against the limit.
7. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Temperature:	<u>25 °C</u>	Humidity:	<u>50 %RH</u>
Ferquency Range:	<u>0.15 – 30 MHz</u>	Test Mode:	<u>Charger (Ch 78)</u>
Receiver Detector:	<u>Q.P. and AV.</u>	Tested By:	<u>Hugo Yeh</u>
Tested Date:	<u>May 24, 2004</u>		

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.
0.294	0.38	30.4	28.1	30.8	28.5	60.4	50.4	-29.6	-21.9
1.200	0.20	12.5	2.8	12.7	3.0	56.0	46.0	-43.3	-43.0
1.220	0.20	12.2	3.1	12.4	3.3	56.0	46.0	-43.6	-42.7
10.217	0.20	14.9	13.6	15.1	13.8	60.0	50.0	-44.9	-36.2
10.390	0.20	14.9	12.2	15.1	12.4	60.0	50.0	-44.9	-37.6
28.827	0.28	10.6	0.1	10.9	0.4	60.0	50.0	-49.1	-49.6

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.
0.294	0.38	29.9	28.6	30.3	28.9	60.4	50.4	-30.1	-21.5
1.418	0.20	15.1	11.8	15.3	12.0	56.0	46.0	-40.7	-34.0
1.467	0.20	11.4	0.5	11.6	0.7	56.0	46.0	-44.4	-45.3
10.126	0.20	20.5	18.8	20.7	19.0	60.0	50.0	-39.3	-31.0
10.217	0.20	20.7	19.4	20.9	19.6	60.0	50.0	-39.1	-30.4
21.499	0.20	21.5	13.5	21.7	13.7	60.0	50.0	-38.3	-36.3

NOTE :

1. Measurement uncertainty is less than +/-1.32dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. "**": Measurement does not apply for this frequency.
5. Margin value = Emission level - Limit
6. The emission of other frequencies were very low against the limit.
7. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



4.2 CHANNEL SEPARATION TEST

4.2.1 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

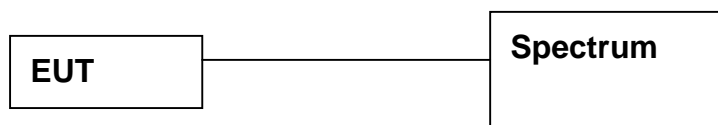
4.2.2 TEST EQUIPMENT

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-7GHz	ROHDE & SCHWARZ	FSP7/ 839511/010	MAR. 2005 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 operating in hopping mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function.

4.2.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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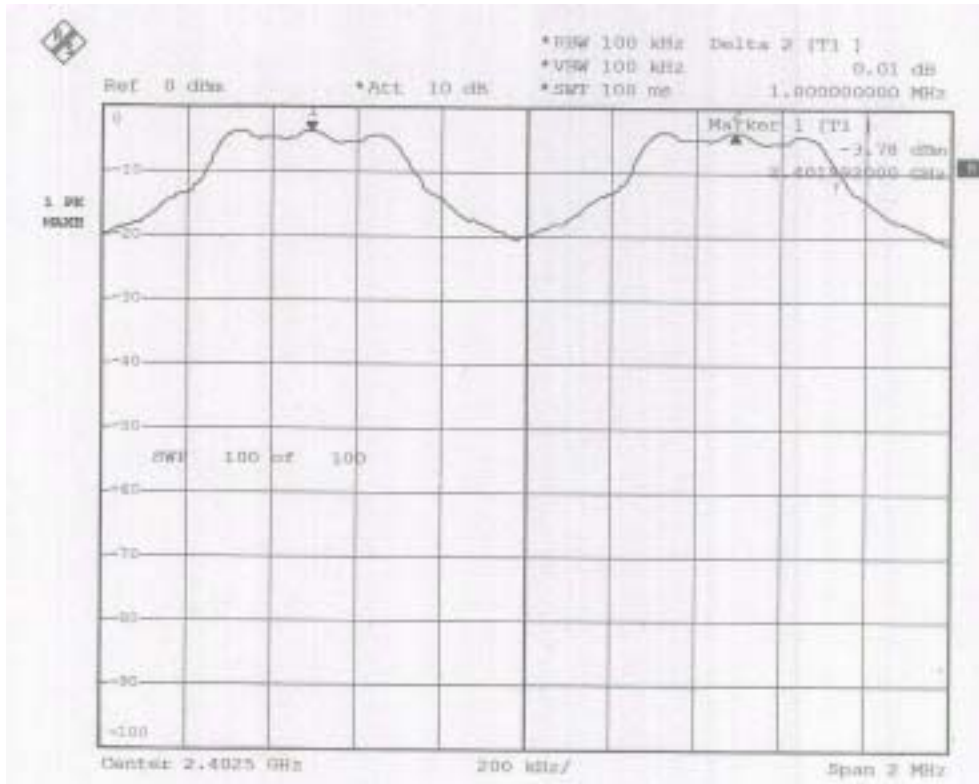
Reference No.:A04050704
 Report No.:FCCA04050704
 FCC ID:RCCBT
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4.2.6 TEST RESULT

Temperature:	<u>26°C</u>	Humidity:	<u>55%RH</u>
Spectrum Detector:	<u>PK</u>	Tested by	<u>Hugo Yeh</u>
Test Result	<u>PASS</u>	Tested Date:	<u>May 17, 2004</u>

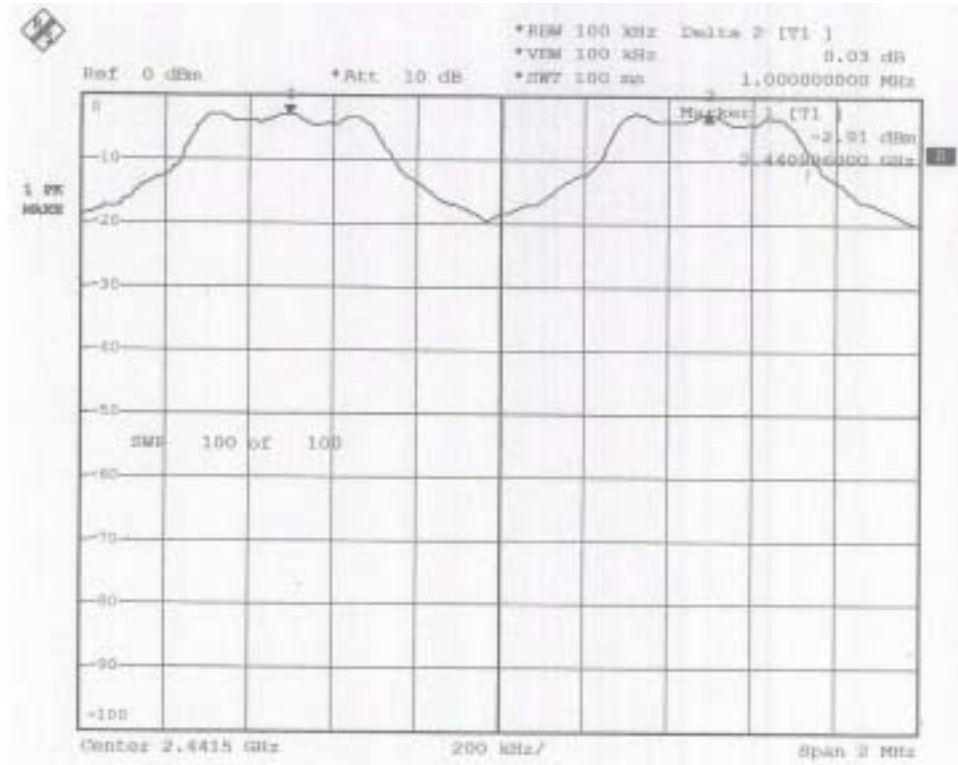
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	SEPARATION READ VALUE (kHz)	SEPARATION LIMIT (kHz)
0	2402	1000.000	>25kHz
39	2441	1000.000	>25kHz
78	2480	1000.000	>25kHz

CH0:





CH39:



CH78:





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

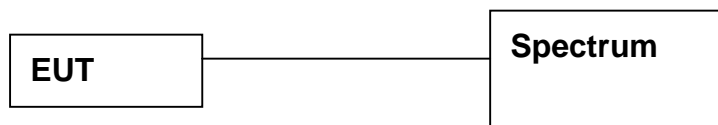
4.3.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE & SCHWARZ	FSP7/ 839511/010	MAR. 2005 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

Same as section 4.1.5 of this report.



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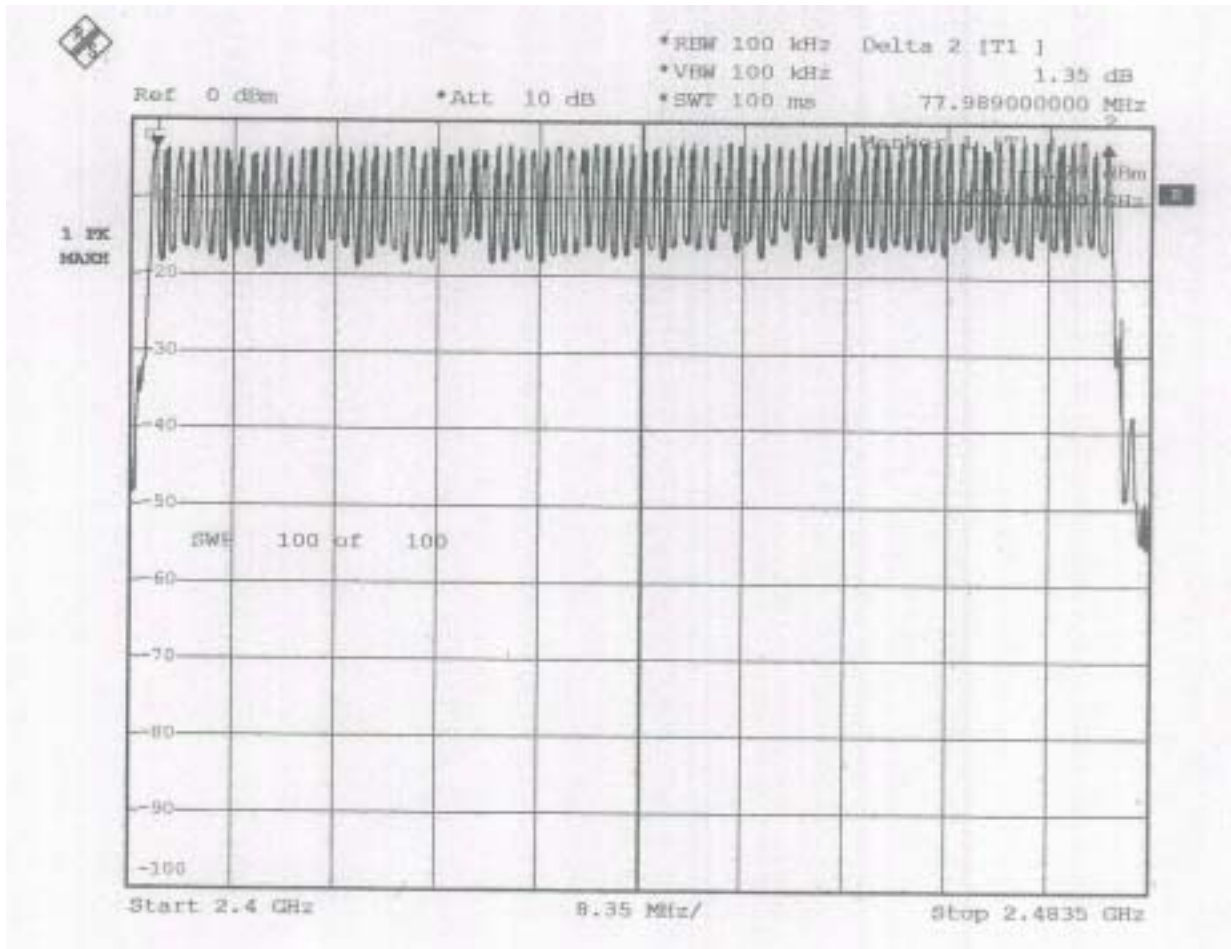
Reference No.:A04050704
 Report No.:FCCA04050704
 FCC ID:RCCBT
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 Date: May 27, 2004

4.3.6 TEST RESULT

Temperature:	<u>26°C</u>	Humidity:	<u>55%RH</u>
Spectrum Detector:	<u>PK</u>	Tested by	<u>Hugo Yeh</u>
Test Result	<u>PASS</u>	Tested Date:	<u>May 17, 2004</u>

HOPPING CHANNEL FREQUENCY RANGE	QUANTITY OF HOPPING CHANNEL READ VALUE	QUANTITY OF HOPPING CHANNEL LIMIT
2402~2480	79	75

CH0-CH78





4.4 20dB Bandwidth

4.4.1 LIMIT

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

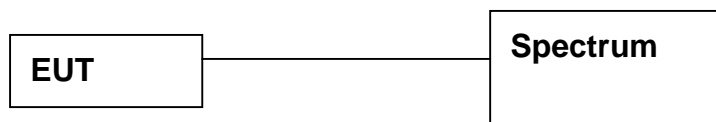
4.4.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE & SCHWARZ	FSP7/ 839511/010	MAR. 2005 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.



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4.4.6 TEST RESULT

Temperature:	<u>26°C</u>	Humidity:	<u>55%RH</u>
Spectrum Detector:	<u>PK</u>	Tested by	<u>Hugo Yeh</u>
Test Result	<u>PASS</u>	Tested Date:	<u>May 17, 2004</u>

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	20dB DOWN BW (MHz)	MINIMUM LIMIT (MHz)
0	2402	0.776	1
39	2441	0.828	1
78	2480	0.836	1

CH0:





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Ch39:



CH78:





4.5 Time of occupancy (Dwell Time)

4.5.1 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.

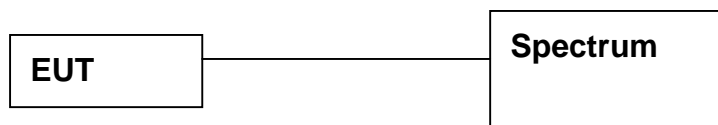
4.5.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE & SCHWARZ	FSP7/ 839511/010	MAR. 2005 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 be controlled its channel. Printed out the test result from the spectrum by hard copy function.

4.5.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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4.5.6 TEST RESULT

Temperature: 26°C Humidity: 55%RH
Spectrum Detector: PK Tested by Hugo Yeh
Test Result PASS Tested Date: May 17, 2004

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	Pulse Time (µs)	Burts (in 1 sec.)	Time of occupancy (Dwell Time) (ms)	Average time of occupancy LIMIT (ms)
0	2402.00	418	10	132.09	400
39	2441.00	418	10	132.09	400
78	2480.00	418	10	132.09	400

Note:

Dwell Time:

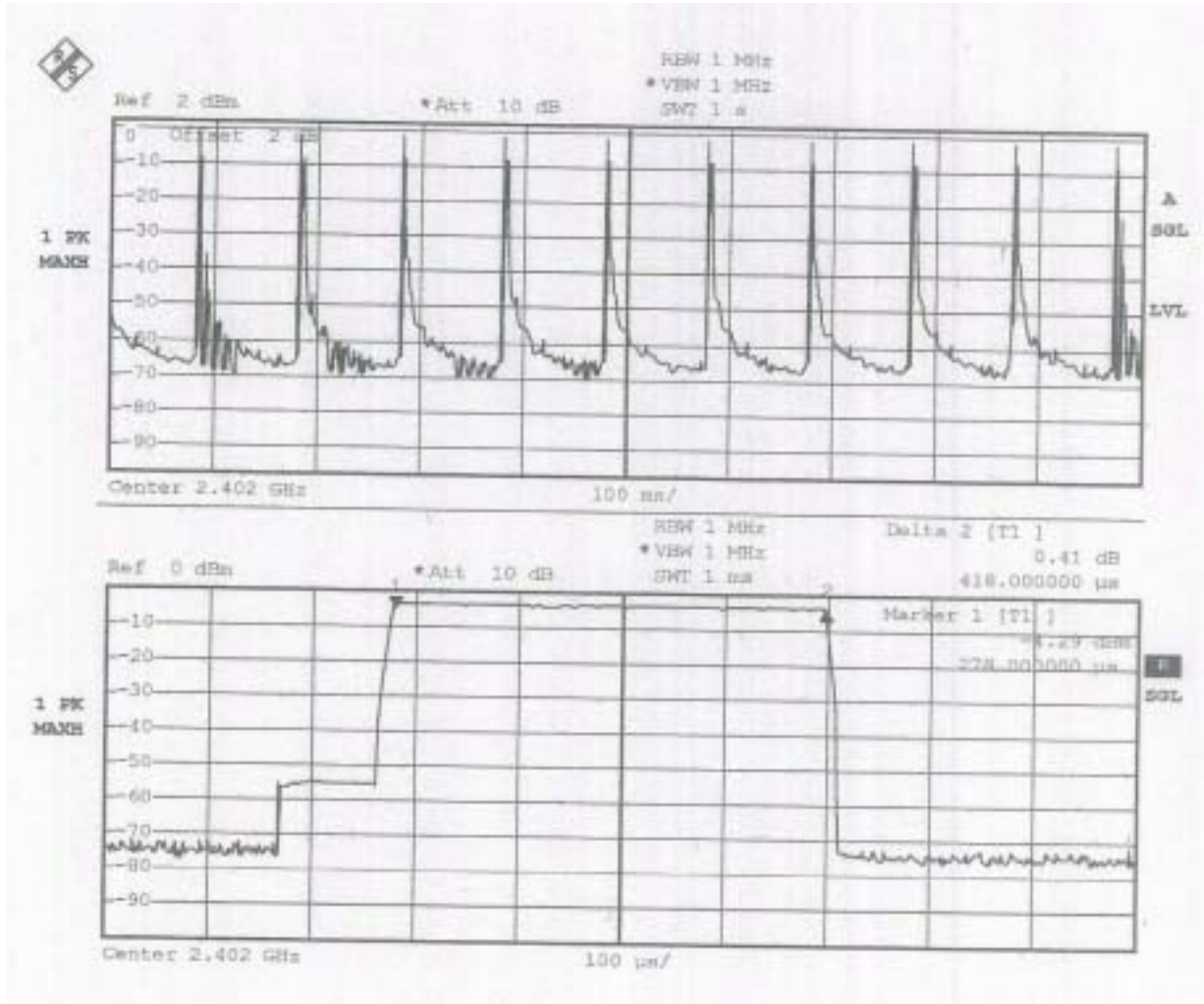
Ch0: $418 \times 10 \times 0.4 \times 79 \times 10^{-6} = 132.09 \text{ms}$

Ch39: $418 \times 10 \times 0.4 \times 79 \times 10^{-6} = 132.09 \text{ms}$

Ch78: $418 \times 10 \times 0.4 \times 79 \times 10^{-6} = 132.09 \text{ms}$

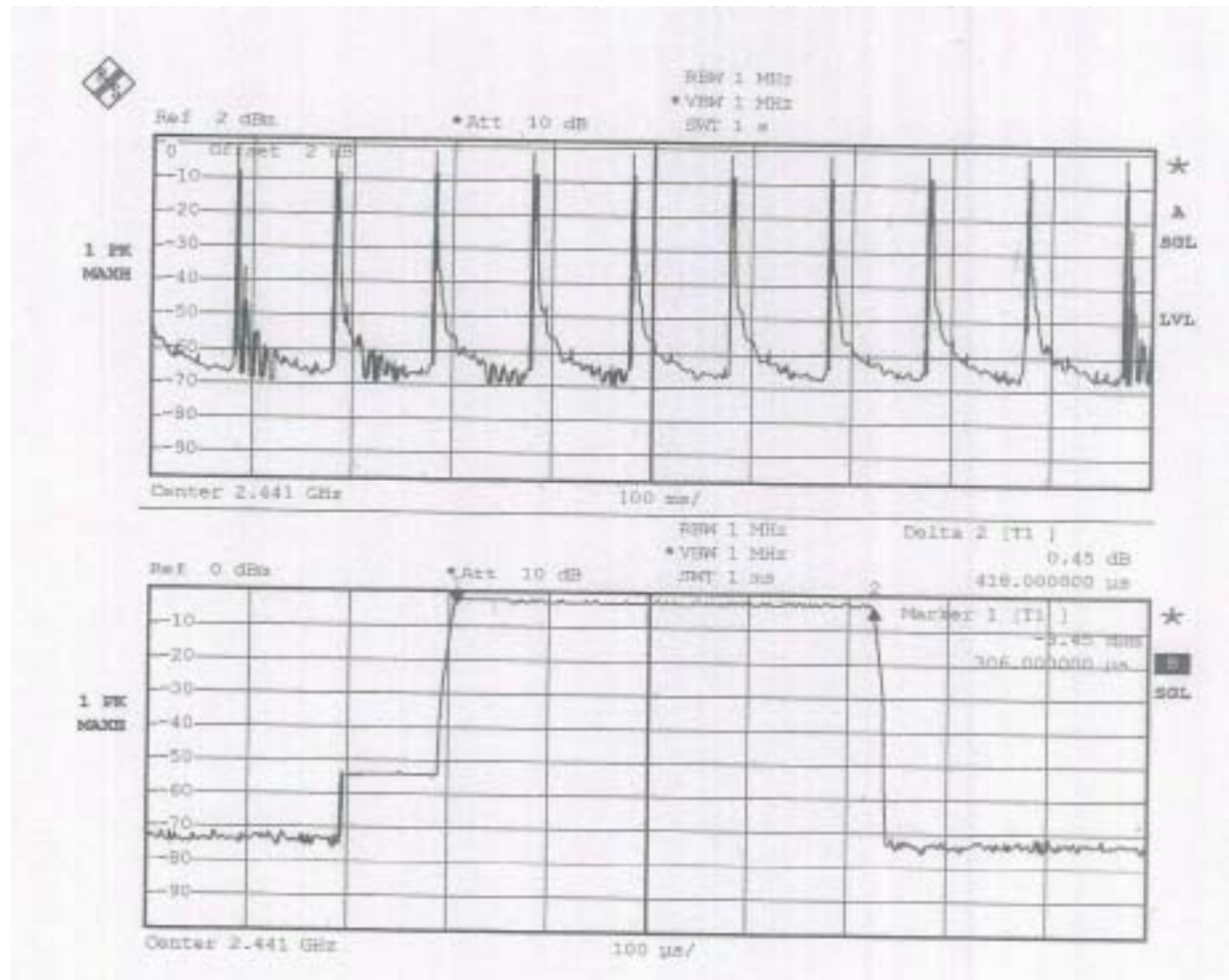


CH0:



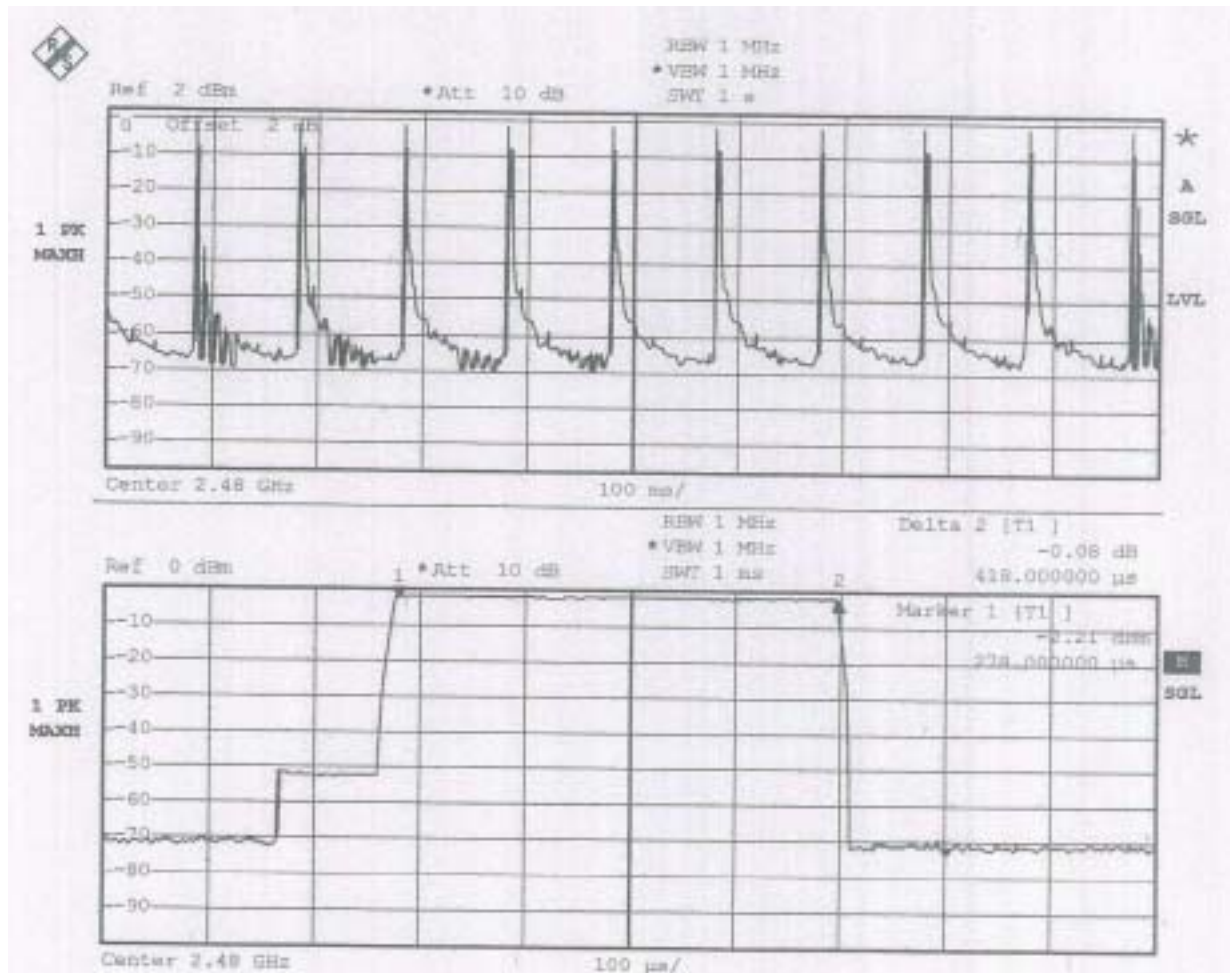


Ch39:





CH78:





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4.6 PEAK POWER TEST

4.6.1 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	NA
2400-2483.5	NA	NA	0.125(21dBm)	1(30dBm)	NA
5725-5850	NA	NA	NA	NA	1(30dBm)

4.6.2 TEST EQUIPMENT

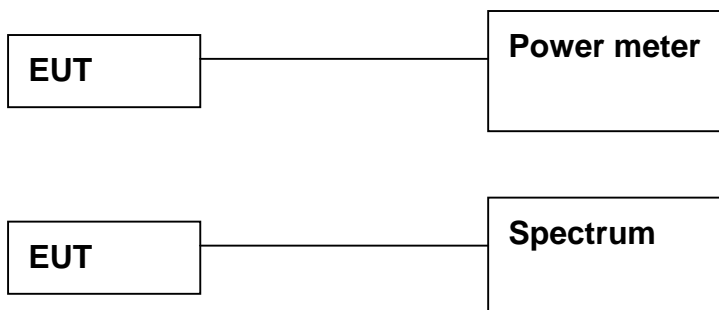
The following test equipment was used during the test :

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE & SCHWARZ	FSP7/ 839511/010	MAR. 2005 ETC
POWER METER	N/A	BOONTON	4232A/ 29001	MAY 2005 ETC
POWER SENSOR	DC-18GHz 0.3 μ W-100mW 50 Ω	BOONTON	51011-EMC/ 31184	JUN. 2004 ETC

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



4.6.3 TEST SET-UP



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

4.6.4 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.

4.6.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

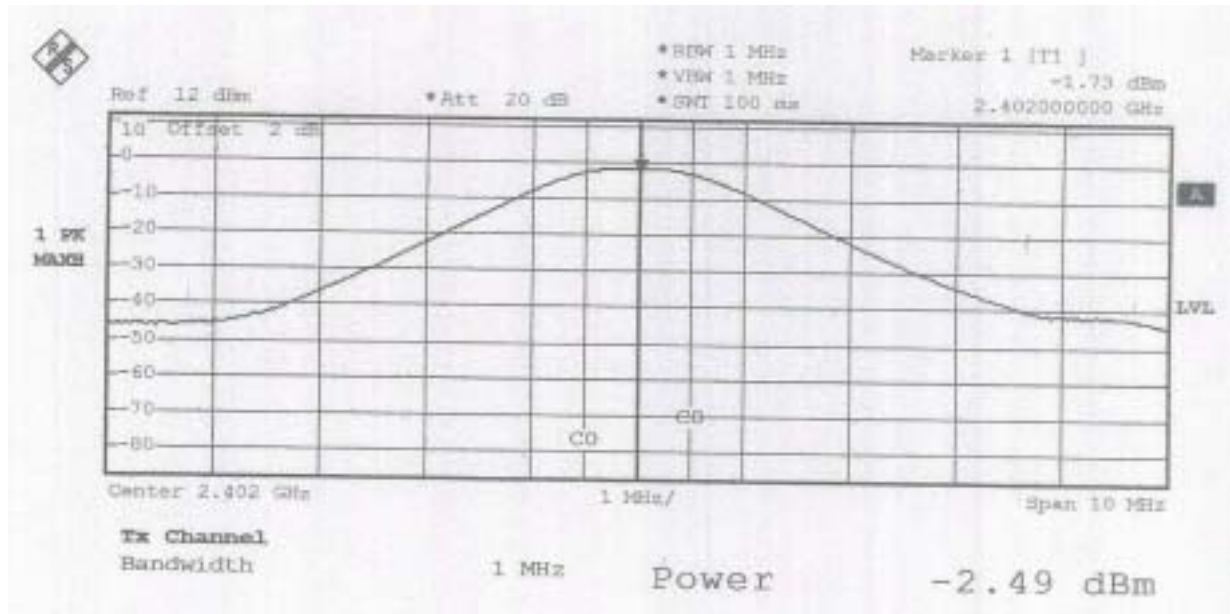
4.6.6 TEST RESULT

Temperature:	<u>26°C</u>	Humidity:	<u>55%RH</u>
Spectrum Detector:	<u>PK</u>	Tested by	<u>Hugo Yeh</u>
Test Result	<u>PASS</u>	Tested Date:	<u>May 17, 2004</u>

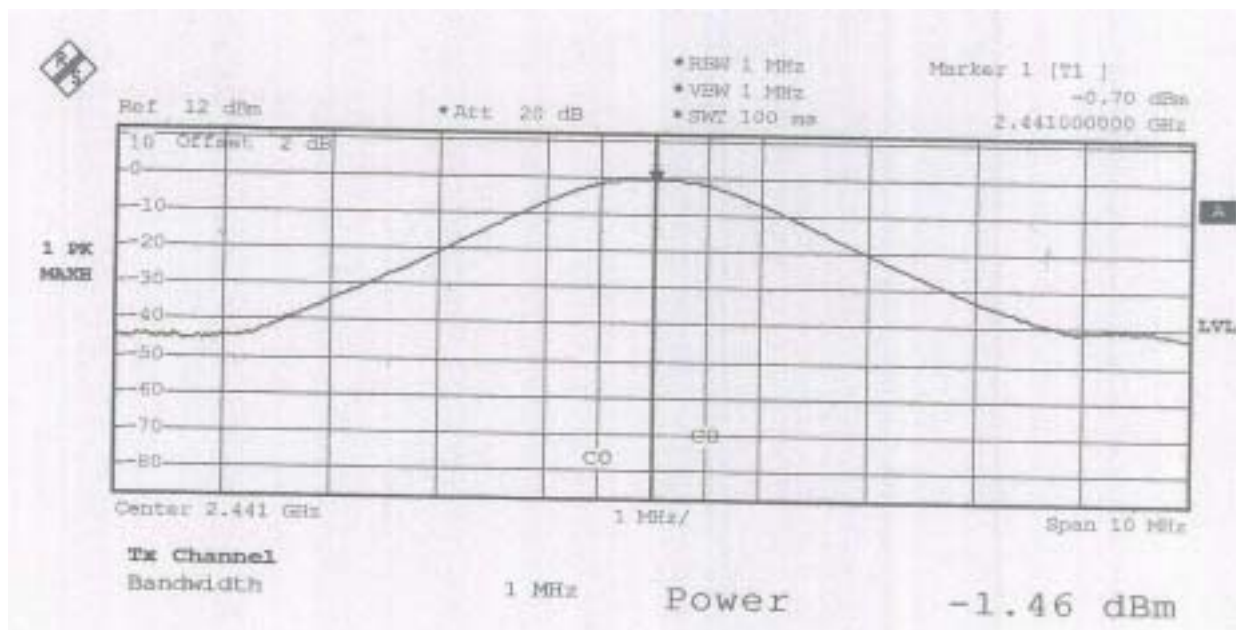
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)
0	2402.0000	-2.49	30
39	2441.0000	-1.46	30
78	2480.0000	-0.70	30



CH0:



CH39:



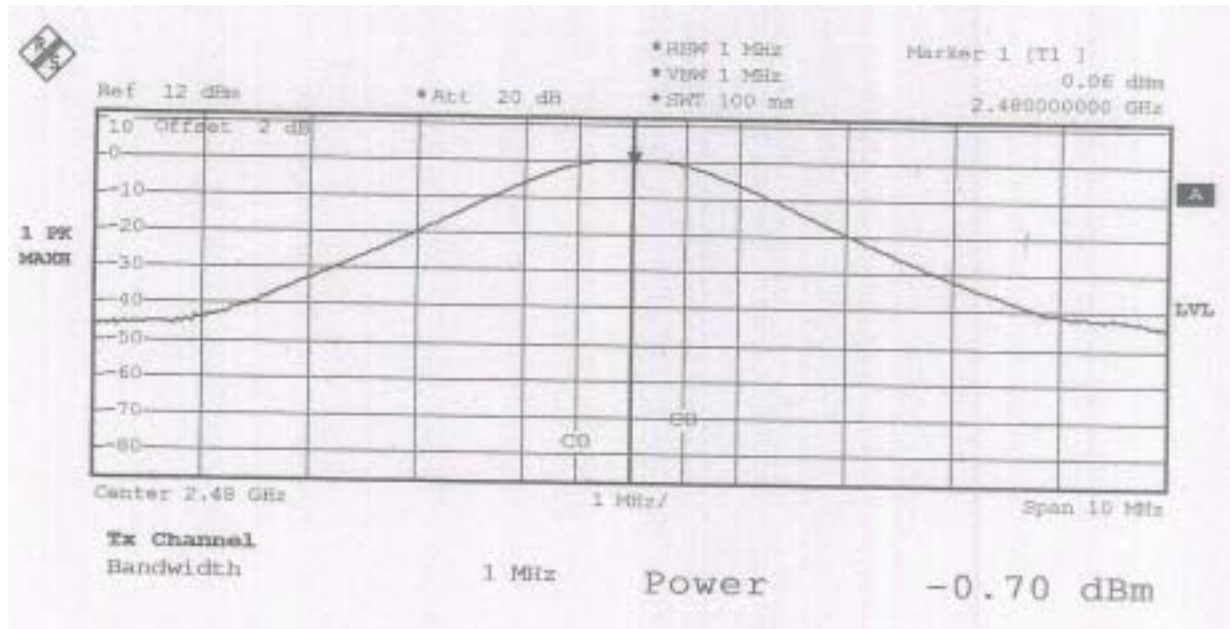


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4.7 BAND EDGE TEST

4.7.1 LIMIT

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



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4.7.2 TEST EQUIPMENT

The following test equipment was used during the test :

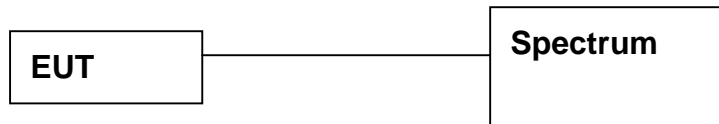
EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE & SCHWARZ	FSP7/ 839511/010	MAR. 2005 ETC
EMI TEST RECEIVER	9 kHz TO 2750 MHz	ROHDE & SCHWARZ	ESCS30/ 830245/012	AUG. 2004 ETC
SPECTRUM	9KHz-26.5GHz	HP	8953E/ 3710A03220	MAY. 2004 ETC
PRE-AMPLIFIER	1GHz-26.5GHz Gain:30dB	HP	8449B/ 3008A01019	DEC. 2004 ETC
BI-LOG ANTENNA	25 MHz TO 2 GHz	EMCO	3142/ 9701-1124	APR. 2005 ETC
HORN ANTENNA	1GHz to 18GHz	EMCO	3115/ 9602-4681	NOV. 2004 ETC
OATS	3 - 10 M measurement	SRT	SRT-1	APR. 2005 SRT

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



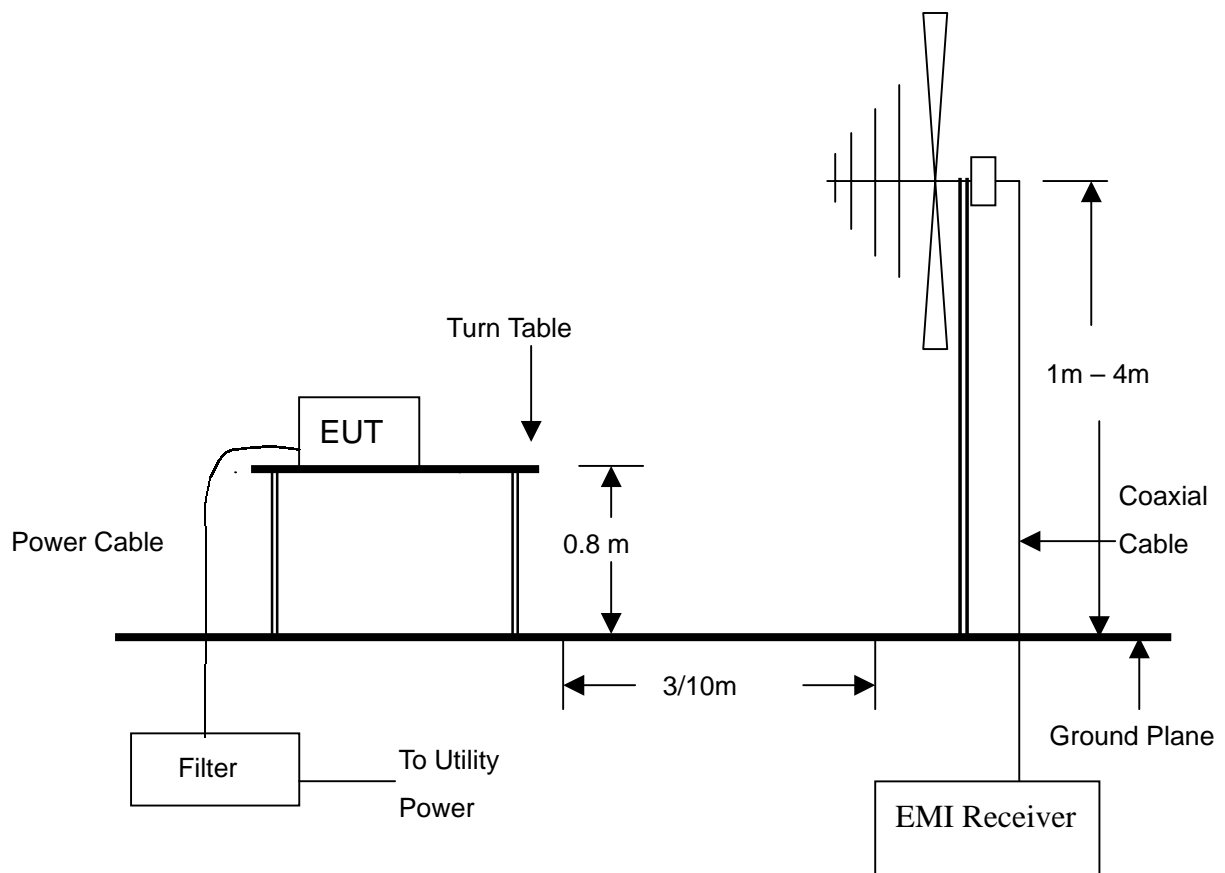
4.7.3 TEST SET-UP

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.



4.7.4 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.

4.7.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

4.7.6 TEST RESULT

Temperature:	<u>26°C</u>	Humidity:	<u>55%RH</u>
Spectrum Detector:	<u>PK & AV</u>	Tested by	<u>Hugo Yeh</u>
Test Result	<u>PASS</u>	Tested Date:	<u>May 17, 2004</u>

1. Conducted test

Frequency (MHz)	PEAK POWER OUTPUT (dBm)	Emission read Value(dBm)	Result of Band edge (dBc)	Band edge LIMIT (dBc)
<2400	-1.92	-43.88	41.96	>20dBc
>2483.5	-0.12	-46.69	46.57	>20dBc

2. Radiated emission test

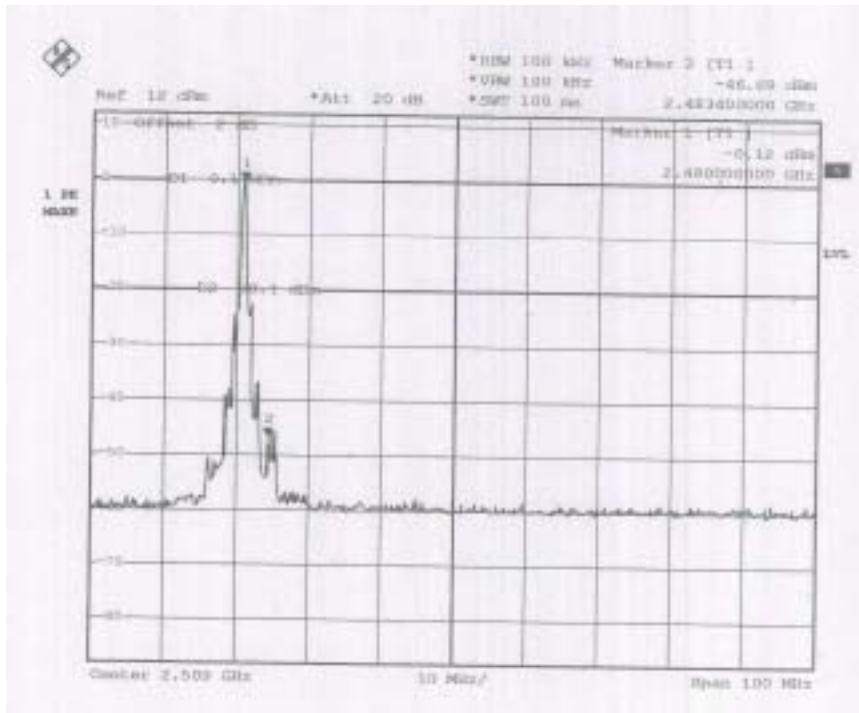
Frequency (MHz)	Antenna polarization (H/V)	PEAK POWER OUTPUT (dBuV/m)	Emission read Value(dBuV/m)	Band edge LIMIT (dBuV/m)
<2400	V	50.4	30.6	54
>2483.5	H	45.8	25.9	54



<2400MHz:



>2483.5MHz





4.8 SPURIOUS RADIATED EMISSION TEST

4.8.1 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 (dB μ V/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)	FIELD 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	68



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4.8.2 TEST EQUIPMENT

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

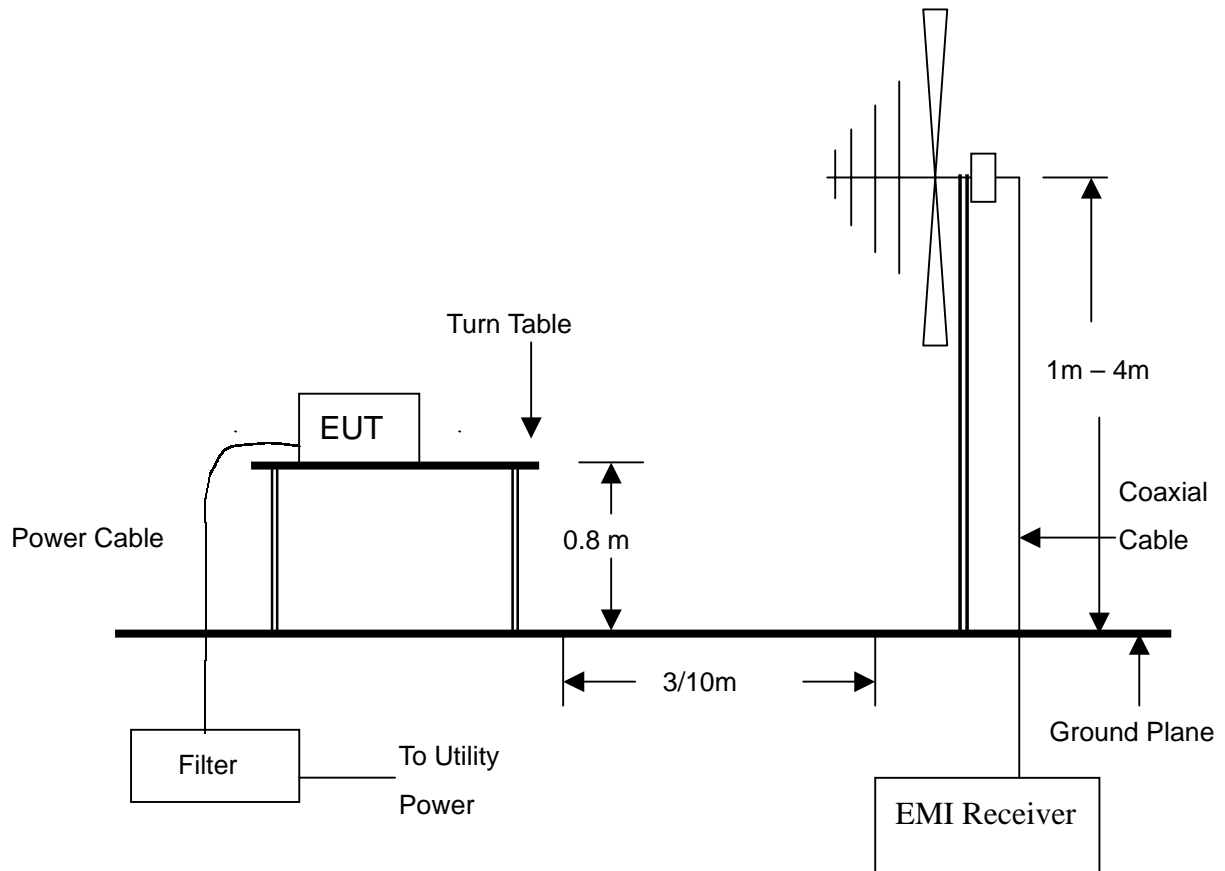
EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9 kHz TO 2750 MHz	ROHDE & SCHWARZ	ESCS30/ 830245/012	AUG. 2004 ETC
SPECTRUM	9KHz-26.5GHz	HP	8953E/ 3710A03220	MAY. 2004 ETC
PRE-AMPLIFIER	1GHz-26.5GHz Gain:30dB	HP	8449B/ 3008A01019	DEC. 2004 ETC
BI-LOG ANTENNA	25 MHz TO 2 GHz	EMCO	3142/ 9701-1124	APR. 2005 ETC
HORN ANTENNA	1GHz to 18GHz	EMCO	3115/ 9602-4681	NOV. 2004 ETC
OATS	3 - 10 M measurement	SRT	SRT-1	APR. 2005 SRT
HORN ANTENNA	15GHz TO 40GHz	EMCO	3116/ 2567	JUL. 2004 ETC

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.



4.8.3 TEST SET-UP



NOTE :

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



**Spectrum Research &
Testing Lab., Inc.**
No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan

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4.8.4 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.

4.8.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



4.8.6 TEST RESULT

Temperature:	26°C	Humidity:	55%RH
Frequency Range:	30 – 1000 MHz	Test mode:	Adapter
Receiver Detector:	Q.P.	Measured Distance:	3m
Tested by:	Hugo Yeh		

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
69.4500	0.90	5.97	21.5	28.4	46.0	-17.6	128.2	1.45
200.7300	1.51	9.80	24.7	36.0	46.0	-10.0	36.7	1.69
276.3400	1.84	13.74	22.9	38.4	46.0	-7.6	164.3	1.00
400.2230	2.29	15.80	22.5	40.6	46.0	-5.4	155.8	1.42
625.9300	3.00	20.90	17.3	41.2	46.0	-4.8	146.6	1.00
800.7400	3.39	22.90	15.1	41.9	46.0	-4.6	152.3	1.17

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
67.7800	0.89	6.11	21.7	28.7	40.0	-11.3	130.1	1.00
202.5000	1.52	9.88	23.8	35.2	43.5	-8.3	77.4	1.00
356.9000	2.14	15.89	22.4	40.4	46.0	-5.6	239.1	1.02
450.9800	2.51	16.70	18.4	37.6	46.0	-8.4	134.6	1.00
633.7600	3.04	20.96	17.2	41.2	46.0	-4.8	51.4	1.21
874.3900	3.67	23.69	12.8	40.2	46.0	-5.8	60.2	1.26

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



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TEST REPORT

Reference No.:A04050704
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Temperature: 26°C Humidity: 55%RH
Frequency Range: 30 – 1000 MHz Test mode: Charger
Receiver Detector: Q.P. Measured Distance: 3m
Tested by: Hugo Yeh

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
45.7500	0.72	10.55	19.8	31.1	46.0	-14.9	128.2	1.00
204.3220	1.54	9.96	22.4	33.9	46.0	-12.1	36.7	1.00
276.3400	1.84	13.74	21.5	37.1	46.0	-8.9	164.3	1.00
400.2230	2.29	15.80	22.9	41.0	46.0	-5.0	155.8	1.42
625.9300	3.00	20.90	17.2	41.1	46.0	-4.9	146.6	1.00
800.7400	3.39	22.90	14.9	41.2	46.0	-4.8	152.3	1.17

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
76.4300	0.99	6.08	20.2	27.3	40.0	-12.7	130.1	1.00
202.5000	1.52	9.88	21.2	32.6	43.5	-10.9	77.4	1.00
356.9000	2.14	15.89	21.6	39.6	46.0	-6.4	239.1	1.02
450.9800	2.51	16.70	18.4	37.6	46.0	-8.4	134.6	1.00
633.7600	3.04	20.96	16.5	40.5	46.0	-5.5	51.4	1.21
874.3900	3.67	23.69	13.3	40.7	46.0	-5.3	60.2	1.26

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



Temperature: 26°C Humidity: 55%RH
 Frequency Range: 1 – 25 GHz Test mode: Adapter(Ch 0)
 Receiver Detector: PK. or AV. Measured Distance: 3m
 Tested by: Hugo Yeh

Antenna Polarization : Horizontal

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2402.00(F)	-32.16	28.00	87.0	45.8	82.8	41.7	N/A	N/A	N/A	N/A	268.1	1.082
2386.34	-32.21	27.97	50.2	33.8	46.0	29.5	74.0	54.0	-28.0	-24.5	254.6	1.175
2400.00	-32.16	28.00	68.0	38.5	63.8	34.3	74.0	54.0	-10.2	-19.7	273.4	1.114
2415.00	-32.18	28.03	48.2	30.1	44.1	25.9	74.0	54.0	-29.9	-28.1	197.4	1.073
4804.00	-30.47	33.64	42.3	*	45.5	*	74.0	54.0	-28.5	*	340.0	1.091
7206.00	-28.90	36.26	42.3	*	49.7	*	74.0	54.0	-24.3	*	216.2	1.919
9608.00	-28.55	37.84	43.7	*	53.0	*	74.0	54.0	-21.0	*	273.4	1.921

Antenna Polarization : Vertical

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2402.00(F)	-32.16	28.54	90.2	50.4	86.1	46.3	N/A	N/A	N/A	N/A	328.1	1.000
2384.54	-32.22	28.48	60.3	34.3	56.6	30.6	74.0	54.0	-17.4	-23.4	333	1.157
2400.00	-32.16	28.00	71.4	40.5	67.3	36.3	74.0	54.0	-6.7	-17.7	354.8	1.112
2415.00	-32.18	28.03	53.2	29.6	49.1	25.5	74.0	54.0	-24.9	-28.5	284.7	1.117
4804.00	-30.47	33.64	41.2	*	44.4	*	74.0	54.0	-29.6	*	232.1	1.658
7206.00	-28.90	36.26	42.6	*	50.0	*	74.0	54.0	-24.0	*	122.1	2.432
9608.00	-28.55	37.84	41.8	*	51.1	*	74.0	54.0	-22.9	*	263.7	2.042

- NOTE :**
1. Measurement uncertainty is less than +/-2dB
 2. "*": Measurement does not apply for this frequency.
 3. Emission Level = Reading Value + Ant. Factor + Cable Loss
 4. The field strength of other emission frequencies were very low against the limit.
 - 5.(F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.
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Temperature:	<u>26°C</u>	Humidity:	<u>55%RH</u>
Ferquency Range:	<u>1 – 25 GHz</u>	Test mode:	<u>Adapter(Ch 39)</u>
Receiver Detector:	<u>PK. or AV.</u>	Measured Distance:	<u>3m</u>
Tested by:	<u>Hugo Yeh</u>		

Antenna Polarization : Horizontal

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2441.00(F)	-32.23	28.08	91.4	48.5	87.2	44.3	N/A	N/A	N/A	N/A	286.5	1.372
2400.00	-32.16	28.00	52.3	23.6	48.1	19.4	74.0	54.0	-25.9	-34.6	312.8	1.160
2428.50	-32.20	28.06	53.6	30.7	49.4	26.6	74.0	54.0	-24.6	-27.4	302.5	1.417
2447.60	-32.24	28.09	57.4	32.8	53.2	28.6	74.0	54.0	-20.8	-25.4	273.9	1.377
4882.00	-30.26	33.71	41.3	*	44.7	*	74.0	54.0	-29.3	*	37.90	1.208
7323.00	-29.04	36.36	42.5	*	49.8	*	74.0	54.0	-24.2	*	320.8	1.929
9764.00	-28.50	37.91	41.7	*	51.1	*	74.0	54.0	-22.9	*	262.5	1.936

Antenna Polarization : Vertical

Freq/MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2441.00(F)	-32.23	28.08	93.2	50.2	89.1	46.1	N/A	N/A	N/A	N/A	293.1	1.051
2400.00	-32.16	28.54	56.3	32.7	52.7	29.1	74.0	54.0	-21.3	-24.9	311.8	1.062
2428.50	-32.20	28.77	55.8	31.4	52.4	27.9	74.0	54.0	-21.6	-26.1	348.2	1.212
2447.60	-32.24	28.09	61.8	36.5	57.7	32.4	74.0	54.0	-16.3	-21.6	299.7	1.287
4882.00	-30.26	33.71	40.1	*	43.5	*	74.0	54.0	-30.5	*	112.6	1.208
7323.00	-29.04	36.36	42.5	*	49.8	*	74.0	54.0	-24.2	*	277.4	1.568
9764.00	-28.50	37.91	42.2	*	51.6	*	74.0	54.0	-22.4	*	277.4	1.568

- NOTE :**
1. Measurement uncertainty is less than +/-2dB
 2. "*": Measurement does not apply for this frequency.
 3. Emission Level = Reading Value + Ant. Factor + Cable Loss
 4. The field strength of other emission frequencies were very low against the limit.
 - 5.(F):The field strength of fundamental frequency.



Temperature: 26°C Humidity: 55%RH
 Frequency Range: 1 – 25 GHz Test mode: Adapter(Ch 78)
 Receiver Detector: PK. or AV. Measured Distance: 3m
 Tested by: Hugo Yeh

Antenna Polarization : Horizontal

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2480.00(F)	-32.19	28.16	93.3	48.4	89.2	44.4	N/A	N/A	N/A	N/A	258	1.085
2483.50	-32.19	28.17	61.4	35.7	57.4	31.7	74.0	54.0	-16.6	-22.3	131.7	2.164
2487.78	-32.18	28.17	59.3	33.9	55.3	29.9	74.0	54.0	-18.7	-24.1	130.1	2.162
2515.57	-32.06	28.28	60.3	35.4	56.6	31.6	74.0	54.0	-17.4	-22.4	130.1	2.200
4960.00	-30.26	33.77	42.5	*	46.0	*	74.0	54.0	-28.0	*	269.7	2.047
7440.00	-28.95	36.45	41.6	*	49.1	*	74.0	54.0	-24.9	*	134.2	1.894
9920.00	-28.65	37.97	40.9	*	50.2	*	74.0	54.0	-23.8	*	12.3	1.107

Antenna Polarization : Vertical

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2480.00(F)	-32.19	28.73	89.5	48.4	86.0	45.0	N/A	N/A	N/A	N/A	2.7	1.000
2483.50	-32.19	28.17	55.3	33.7	51.3	29.7	74.0	54.0	-22.7	-24.3	132.4	1.000
2496.23	-32.17	28.19	54.3	34.3	50.3	30.3	74.0	54.0	-23.7	-23.7	243.4	1.000
2513.44	-32.07	28.27	41.1	36.3	37.3	32.5	74.0	54.0	-36.7	-21.5	264.8	1.814
4960.00	-30.26	33.77	39.3	*	42.8	*	74.0	54.0	-31.2	*	269.7	1.460
7440.00	-28.95	36.45	43.5	*	51.0	*	74.0	54.0	-23.0	*	188.8	1.000
9920.00	-28.65	37.97	41.8	*	51.1	*	74.0	54.0	-22.9	*	131.7	2.634

- NOTE :**
1. Measurement uncertainty is less than +/-2dB
 2. "*": Measurement does not apply for this frequency.
 3. Emission Level = Reading Value + Ant. Factor + Cable Loss
 4. The field strength of other emission frequencies were very low against the limit.
 - 5.(F):The field strength of fundamental frequency.



TEST REPORT

Temperature: 26°C Humidity: 55%RH
 Frequency Range: 1 – 25 GHz Test mode: Charger(Ch 0)
 Receiver Detector: PK. or AV. Measured Distance: 3m
 Tested by: Hugo Yeh

Antenna Polarization : Horizontal

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2402.00(F)	-32.16	28.00	87.0	45.8	82.8	41.7	N/A	N/A	N/A	N/A	268.1	1.082
2386.34	-32.21	27.97	48.6	33.8	44.3	29.5	74.0	54.0	-29.7	-24.5	254.6	1.175
2400.00	-32.16	28.00	66.9	38.5	62.7	34.3	74.0	54.0	-11.3	-19.7	273.4	1.114
2415.00	-32.18	28.03	48.2	30.1	44.1	25.9	74.0	54.0	-29.9	-28.1	197.4	1.073
4804.00	-30.47	33.64	41.8	*	44.9	*	74.0	54.0	-29.1	*	340.0	1.091
7206.00	-28.90	36.26	42.3	*	49.7	*	74.0	54.0	-24.3	*	216.2	1.919
9608.00	-28.55	37.84	43.7	*	53.0	*	74.0	54.0	-21.0	*	273.4	1.921

Antenna Polarization : Vertical

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2402.00(F)	-32.16	28.00	89.4	48.3	85.2	44.1	N/A	N/A	N/A	N/A	328.1	1.000
2392.54	-32.19	28.49	56.8	33.6	53.1	29.9	74.0	54.0	-20.9	-24.1	333.0	1.157
2400.00	-32.16	28.00	68.2	39.1	64.1	35.0	74.0	54.0	-9.9	-19.0	354.8	1.112
2415.00	-32.18	28.03	52.7	29.6	48.5	25.5	74.0	54.0	-25.5	-28.5	284.7	1.117
4804.00	-30.47	33.64	40.7	*	43.8	*	74.0	54.0	-30.2	*	232.1	1.658
7206.00	-28.90	36.26	42.6	*	50.0	*	74.0	54.0	-24.0	*	122.1	2.432
9608.00	-28.55	37.84	41.8	*	51.1	*	74.0	54.0	-22.9	*	263.7	2.042

- NOTE :**
1. Measurement uncertainty is less than +/-2dB
 2. "*": Measurement does not apply for this frequency.
 3. Emission Level = Reading Value + Ant. Factor + Cable Loss
 4. The field strength of other emission frequencies were very low against the limit.
 - 5.(F):The field strength of fundamental frequency.



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TEST REPORT

Reference No.:A04050704
Report No.:FCCA04050704
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Date: May 27, 2004

Temperature: 26°C Humidity: 55%RH
 Frequency Range: 1 – 25 GHz Test mode: Charger(Ch 39)
 Receiver Detector: PK. or AV. Measured Distance: 3m
 Tested by: Hugo Yeh

Antenna Polarization : Horizontal

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2441.00(F)	-32.23	28.08	87.5	46.8	83.3	42.7	N/A	N/A	N/A	N/A	286.5	1.372
2400.00	-32.16	28.00	50.2	23.6	46.0	19.4	74.0	54.0	-28.0	-34.6	312.8	1.160
2428.50	-32.20	28.06	51.3	30.7	47.2	26.6	74.0	54.0	-26.8	-27.4	302.5	1.417
2447.60	-32.24	28.09	55.2	32.8	51.1	28.6	74.0	54.0	-22.9	-25.4	273.9	1.377
4882.00	-30.26	33.71	41.3	*	44.7	*	74.0	54.0	-29.3	*	37.9	1.208
7323.00	-29.04	36.36	42.5	*	49.8	*	74.0	54.0	-24.2	*	320.8	1.929
9764.00	-28.50	37.91	41.7	*	51.1	*	74.0	54.0	-22.9	*	262.5	1.936

Antenna Polarization : Vertical

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2441.00(F)	-32.23	28.08	88.5	48.8	84.3	44.6	N/A	N/A	N/A	N/A	293.1	1.051
2400.00	-32.16	28.54	53.7	32.7	50.1	29.1	74.0	54.0	-24.0	-24.9	311.8	1.062
2435.77	-32.22	28.77	54.7	31.4	51.2	27.9	74.0	54.0	-22.8	-26.1	348.2	1.212
2447.60	-32.24	28.09	58.7	36.5	54.5	32.4	74.0	54.0	-19.5	-21.6	299.7	1.287
4882.00	-30.26	33.71	40.1	*	43.5	*	74.0	54.0	-30.5	*	112.6	1.208
7323.00	-29.04	36.36	42.5	*	49.8	*	74.0	54.0	-24.2	*	277.4	1.568
9764.00	-28.50	37.91	42.2	*	51.6	*	74.0	54.0	-22.4	*	277.4	1.568

- NOTE :**
1. Measurement uncertainty is less than +/-2dB
 2. "*": Measurement does not apply for this frequency.
 3. Emission Level = Reading Value + Ant. Factor + Cable Loss
 4. The field strength of other emission frequencies were very low against the limit.
 - 5.(F):The field strength of fundamental frequency.



TEST REPORT

Temperature: 26°C Humidity: 55%RH
 Frequency Range: 1 – 25 GHz Test mode: Charger(Ch 78)
 Receiver Detector: PK. or AV. Measured Distance: 3m
 Tested by: Hugo Yeh

Antenna Polarization : Horizontal

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2480.00(F)	-32.19	28.16	88.6	48.4	84.5	44.4	N/A	N/A	N/A	N/A	258.0	1.085
2483.50	-32.19	28.17	60.4	35.7	56.4	31.7	74.0	54.0	-17.6	-22.3	131.7	2.164
2487.78	-32.18	28.17	58.8	33.9	54.8	29.9	74.0	54.0	-19.2	-24.1	130.1	2.162
2515.57	-32.06	28.28	60.3	35.4	56.6	31.6	74.0	54.0	-17.4	-22.4	130.1	2.200
4960.00	-30.26	33.77	42.5	*	46.0	*	74.0	54.0	-28.0	*	269.7	2.047
7440.00	-28.95	36.45	41.6	*	49.1	*	74.0	54.0	-24.9	*	134.2	1.894
9920.00	-28.65	37.97	40.9	*	50.2	*	74.0	54.0	-23.8	*	12.30	1.107

Antenna Polarization : Vertical

Freq./MHz	Cable Loss (dB)	Ant. Fact. (dB)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Margin (dBuV/m)		AZ (o)	EL (m)
			PK	AV	PK	AV	PK	AV	PK	AV		
2480.00(F)	-32.19	28.73	87.5	48.5	84.0	45.0	N/A	N/A	N/A	N/A	2.700	1.000
2483.50	-32.19	28.17	53.8	33.7	49.8	29.7	74.0	54.0	-24.2	-24.3	132.4	1.000
2493.50	-32.17	28.19	53.0	34.3	49.0	30.3	74.0	54.0	-25.0	-23.7	243.4	1.000
2513.44	-32.07	28.27	40.3	36.3	36.5	32.5	74.0	54.0	-37.5	-21.5	264.8	1.814
4960.00	-30.26	33.77	39.3	*	42.8	*	74.0	54.0	-31.2	*	269.7	1.460
7440.00	-28.95	36.45	43.5	*	51.0	*	74.0	54.0	-23.0	*	188.8	1.000
9920.00	-28.65	37.97	41.8	*	51.1	*	74.0	54.0	-22.9	*	131.7	2.634

- NOTE :**
1. Measurement uncertainty is less than +/-2dB
 2. "*": Measurement does not apply for this frequency.
 3. Emission Level = Reading Value + Ant. Factor + Cable Loss
 4. The field strength of other emission frequencies were very low against the limit.
 - 5.(F):The field strength of fundamental frequency.



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5. Antenna application

5.1 Antenna requirement

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

FCC part15C section15.247 requirement:

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

5.2 Result

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



6. PHOTOS OF TESTING

- Conducted test (Adapter)





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- Conducted test (Charger)



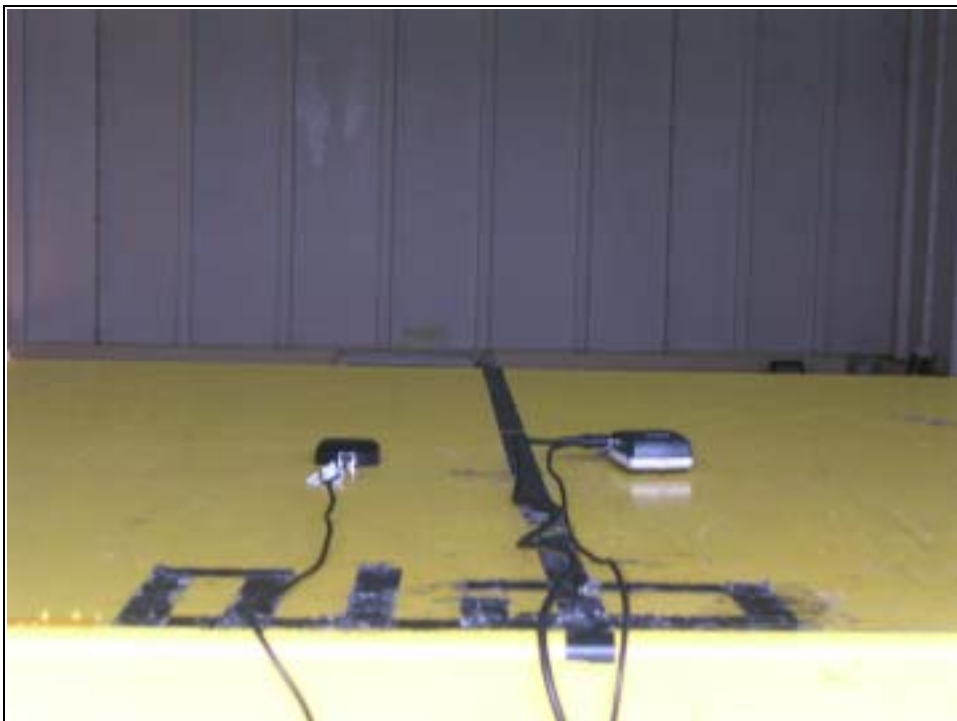
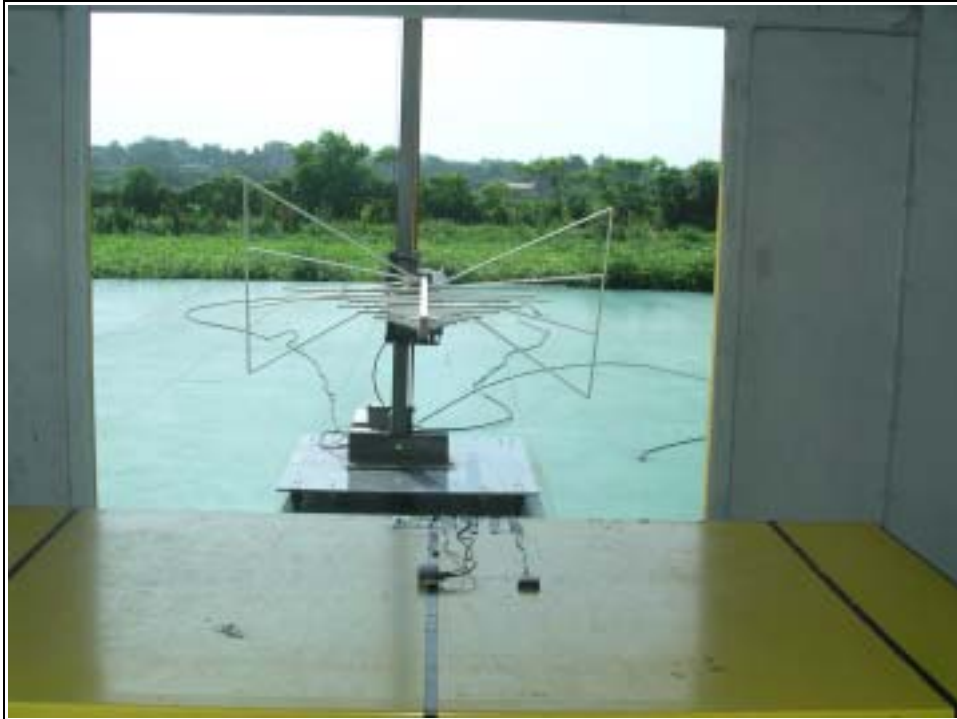


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- Radiated test (Adapter): Below 1GHz





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TEST REPORT

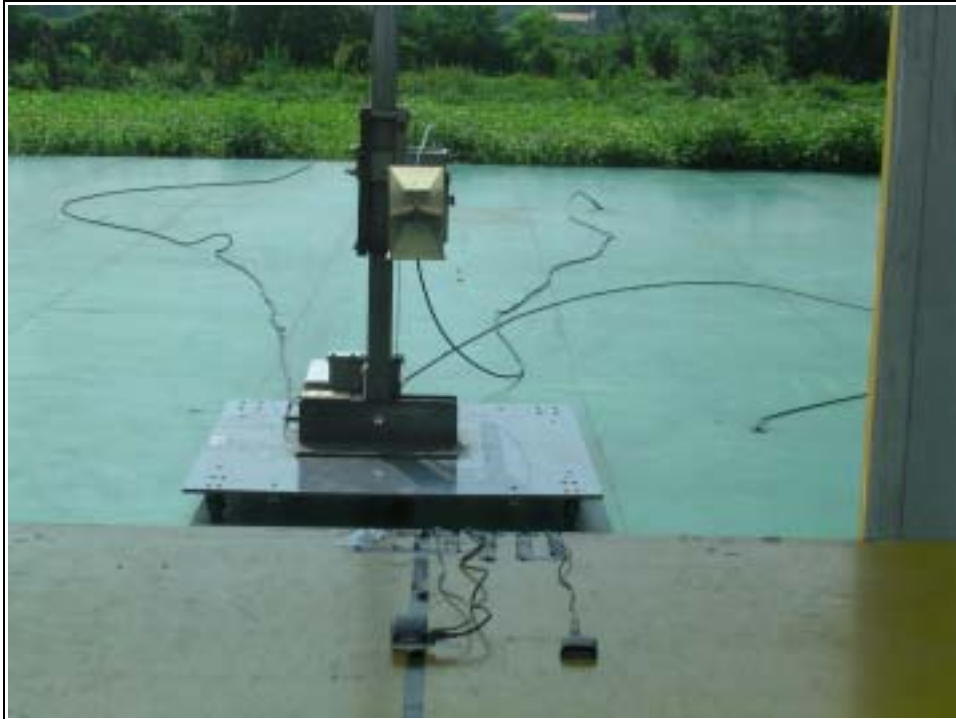
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- Radiated test (Charger) : Below 1GHz





- Radiated test (Adapter) : Above 1GHz





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- Radiated test (Charger) : Above 1GHz





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7. TERMS OF ABRIVATION

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