(Revised Version)

TEST REPORT FOR CERTIFICATION

On Behalf of

GPS Instant Fix Technology Co., Ltd.

GPS Instant FIX

Model No.: GPS-BT74R

FCC ID: TQAGPS-BT74R

Prepared for: GPS Instant Fix Technology Co., Ltd.

1F., No. 126, Sec. 2, Fongnian Rd., Beitou District, Taipei City 112,

Taiwan, R.O.C.

Prepared by: Audix Corporation

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Date of Test : Sep. 26 ~ Oct. 06, 2005

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TABLE OF CONTENTS

<u>De</u>	scrip	otion	Page
TE	ST R	REPORT FOR CERTIFICATION	4
1.		NERAL INFORMATION	
1.		Description of Device (EUT)	
		Tested Supporting System Details	
		Description of Test Facility	
		Measurement Uncertainty	
2.		WERLINE CONDUCTED EMISSION MEASUREMENT	
	2.1.	Test Equipment	9
		Block Diagram of Test Setup	
	2.3.	Powerline Conducted Emission Limits (§15.207 Class B)	9
	2.4.		
		Test Procedure.	
		Powerline Conducted Emission Measurement Results	
3.	RA	DIATED EMISSION MEASUREMENT	13
	3.1.	Test Equipment	13
	3.2.	Block Diagram of Test Setup	13
		Radiated Emission Limits (§15.209 Class B)	
		Operating Condition of EUT	
		Test Procedure	
	3.6.	Radiated Emission Measurement Results	16
4.	20d	B BANDWIDTH MEASUREMENT	66
	4.1.	Test Equipment	66
	4.2.	Block Diagram of Test Setup	66
	4.3.	Specification Limits (§15.247(a)(1))	
	4.4.	1 000 1 100 0 001	
	4.5.	Test Results	67
5.	CA	RRIER FREQUENCY SEPARATION MEASUREMENT	70
	5.1.	Test Equipment	70
	5.2.		
	5.3.	1	
		Test Procedure	
		Test Results	
6.	TIN	ME OF OCCUPANCY MEASUREMENT	
	6.1.	Test Equipment	
	6.2.		
	6.3.	Specification Limits (§15.247(a)(1)(iii))	72
		Test Procedure	
		Test Results	
7.		MBER OF HOPPING CHANNELS MEASUREMENT	
	7.1.	Test Equipment	
	7.2.	\mathcal{E}	
	7.3.	Specification Limits (§15.247(a)(1)(iii))	78
	7.4.		
		Test Results	
8.		XIMUM PEAK OUTPUT POWER MEASUREMENT	
	8.1.	Test Equipment	
	8.2.		
	8.3.		
		Test Procedure	
	8.5.	Test Results	80

9.	POWER SPECTRAL DENSITY MEASUREMENT	81
	9.1. Test Equipment	81
	9.2. Block Diagram of Test Setup	
	9.3. Specification Limits (§15.247(d))	
	9.4. Test Procedure	
	9.5. Test Results	
10.	EMISSION LIMITATIONS MEASUREMENT	84
	10.1. Test Equipment	84
	10.2. Block Diagram of Test Setup	
	10.3. Specification Limits (§15.247(c))	
	10.4. Test Procedure	
	10.5. Test Results	85
11.	BAND EDGES MEASUREMENT	88
	11.1. Test Equipment	88
	11.2. Block Diagram of Test Setup	
	11.3. Specification Limits (§15.247(c))	
	11.4. Test Procedure	
	11.5. Test Results	88
12.	DEVIATION TO TEST SPECIFICATIONS	90
13.	PHOTOGRAPHS	91
	13.1. Photos of Conducted Emission Measurement	91
	13.2. Photos of Radiated Emission Measurement at Semi-Anechoic Chamber	
	13.3. Photos of Carrier Frequency Separation Measurement	
	13.4. Photos of 20dB Bandwidth Measurement	
	13.5. Photos of Time of Occupancy Measurement	95
	13.6. Photos of Number of Hoping Channels Measurement	
	13.7. Photos of Maximum Peak Output Power Measurement	
	13.8. Photos of Power Spectral Density Measurement	
	13.9. Photos of Emission Limitations & Band Edges Measurement	

TEST REPORT FOR CERTIFICATION

ApplicantGPS Instant Fix Technology Co., Ltd.ManufacturerGPS Instant Fix Technology Co., Ltd.

EUT Description : GPS Instant FIX FCC ID : TQAGPS-BT74R

(1) Model Number : GPS-BT74R

(2) Serial Number : N/A(3) Power Supply : DC 3.7V

(4) Test Voltage : AC 120V/60Hz Via AC Adapter

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, SEP. 2005 AND FCC / ANSI C63.4-2003 (with FCC CFR 47 Part 15C, §15.205, §15.207, §15.209 and §15.247)

The device described above was tested by Audix Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits both radiated and conducted emissions.

The measurement results are contained in this test report and Audix Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits and requirement.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Corporation.

Date of Test: Sep. 26 ~ Oct. 06, 2005

Prepared by: Kot No Nov 08, >0>5

(Kitty Ni/Administrator)

Test Engineer: Elw Ching Nov. 08. 5005

(Ben Cheng/Section Manager)

Approve & Authorized Signer: Wen Zang Nov. 10 65

Allen Wang/Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : GPS Instant FIX (with bluetooth function)

Model Number : GPS-BT74R

FCC ID : TQAGPS-BT74R

Applicant : GPS Instant Fix Technology Co., Ltd.

1F., No. 126, Sec. 2, Fongnian Rd., Beitou District, Taipei City 112, Taiwan, R.O.C.

Manufacturer : GPS Instant Fix Technology Co., Ltd.

1F., No. 126, Sec. 2, Fongnian Rd., Beitou District, Taipei City 112, Taiwan, R.O.C.

Radio Technology : Bluetooth: FHSS Modulation

Fundamental Range : 2400MHz ~ 2483.5MHz

Channel Number : Bluetooth: 79

Tested Channel : Bluetooth: 0, 39, 78

Antenna Gain : Bluetooth: 2.5dBi

GPS Receiver Antenna : M/N ANT-380, FCC by DoC

Cable: Non-Shielded, Undetachable, 3.0m

GSP Receiver Frequency : L1, 1575.42MHz

Battery Pack : Whole Power, M/N WP-L111, DC 3.7V

AC Adapter : DVE, M/N DSA-0051-05CFEU

I/P: 100-240Vac, 50/60Hz, 0.2A

O/P: +5.3Vdc, 0.5A

O/P Cable: Shielded, Undetachable, 1.8m

Date of Receipt of Sample : Sep. 19, 2005

Date of Test : Sep. 26 ~ Oct. 06, 2005

Remark:

Antenna requirement: The EUT's transmitter antenna is a multilayer ceramic antenna, which is design on circuit board, complied with §15.203 and inform to user that any change and modify is prohibited.

1.2. Tested Supporting System Details

[FOR CONDUCTED EMISSION MEASUREMENT]

1.2.1. PARTNER NOTEBOOK PC

Model Number : PP2130

Serial Number : 5Y32KSQZ40ME

BSMI ID : 3912A556 FCC ID : By DoC

Brand : Compaq Computer Corporation

Manufacturer : LG Electronics Ltd.
AC Adapter : Compaq, M/N PPP009L

(LITE-ON, M/N PA-1650-02C) Shielded, Undetachable, 1.8m,

Bonded a ferrite core

Power Cord : Non-Shielded, Detachable, 1.8m

1.2.2. BLUETOOTH USB ADAPTER

Model Number : UBTCR3C1E-N

Serial Number : N/A Manufacturer : N/A

[FOR RADIATED EMISSION MEASUREMENT]

1.2.3. PARTNER PC SYSTEM

Model Number : D220 MT
Serial Number : SGH40709F2
FCC ID : By DoC
BSMI ID : R33001
Brand : HP

RS-232 Cable : Shielded, Detachable, 1.8m Power Cord : Non-Shielded, Detachable, 1.8m

1.2.4. 15" LCD MONITOR

Model Number : D5063

Serial Number : CN206A7026 FCC ID : ARSLM562H

BSMI ID : R33037

Manufacturer : Top Victory Electronics (Fujian) Co., Ltd.

Data Cable (D-Sub) : Shielded, Detachable, 1.8m

Bonded two ferrite cores

AC Adapter : Delta, M/N ADP-40TB

BSMI ID 3892D142

Cord: Shielded, Undetachable, 1.8m

Bonded a ferrite core

Power Cord : Non-Shielded, Detachable, 1.8m

1.2.5. PS2 KEYBOARD

 Model Number
 : 335192-AB1

 Serial Number
 : M0401000824

 FCC ID
 : GYUR84SK

 BSMI ID
 : T3A002

 Brand
 : HP

brand · HP

Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.6. PS2 MOUSE

Model Number : M-S69

Serial Number : F6AB70S5BOY1NWZ

FCC ID : JNZ211443
BSMI ID : R41126
Manufacturer : HP

Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.7. DEBUG BOARD

Model Number : N/A
Serial Number : N/A
Manufacturer : N/A

USB Data Cable : Shielded, Detachable, 1.0m

1.3. Description of Test Facility

Name of Firm : Audix Corporation

Technical Division EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien 24443, Taiwan, R.O.C.

Test Facility : No. 2 Shielding Room

No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,

Taipei Hsien, Taiwan, R.O.C.

Semi-Anechoic Chamber

No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,

Taipei Hsien, Taiwan, R.O.C.

May 16, 2003 Re-File on

Federal Communication Commission

Registration Number: 90993

NVLAP Lab. Code : 200077-0

(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No. : DAT-P-145/03-01

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test	30MHz~300MHz	±2.91dB
(Distance: 3m)	300MHz~1000MHz	±2.94dB

Test Item	Uncertainty
Carrier Frequency Separation Measurement	2.8×10^{-10}
20dB Bandwidth Measurement	0.02%
Time of Occupancy Measurement	0.33dB
Number of Hopping Channels Measurement	95%
Maximum Peak Output Power Measurement	0.52dB
Power spectral density	0.52dB/Hz
Emission Limitations Measurement	0.13dB
Band Edges Measurement	0℃

Remark : Uncertainty = $ku_c(y)$

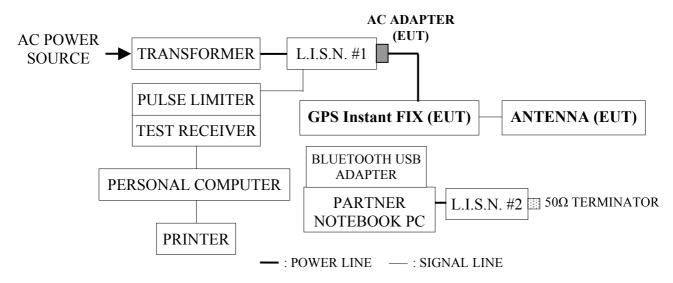
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment are used during the powerline conducted emission measurement: (No. 2 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESCS30	100265	Oct. 05, 04'	Oct. 04, 05'
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-855-9	Apr. 20, 05'	Apr. 19, 06'
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-881-13	Apr. 20, 05'	Apr. 19, 06'
4.	Pulse Limiter	R & S	ESH3Z2	001	Apr. 09, 05'	Apr. 08, 06'

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limits (§15.207 Class B)

Frequency	Maximum RF Line Voltage (dBμV)		
	Quasi-Peak Level	Average Level	
150kHz ~ 500kHz	$66 \sim 56 \text{ dB}\mu\text{V}^*$	$56 \sim 46 \ dB\mu V^*$	
$500kHz \sim 5MHz$	56 dBμV	46 dBμV	
5MHz ~ 30MHz	60 dBμV	50 dBμV	

Remark: 1. * Decreases with the logarithm of the frequency.

2. If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT and simulator as shown on 2.2.
- 2.4.2. Turned on the power of all equipment.
- 2.4.3. The Partner Notebook PC run the test software "Nemerix Control Tool Lite V0.92" to receiving and transmitting satellite signal through the EUT (GPS Instant FIX) and GPS antenna during all testing.

2.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and its AC Adapter connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2) This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to FCC ANSI C63.4-2003 on conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was pre-scanned with a peak detector.

All the final readings of measurement were with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Powerline Conducted Emission Measurement Results

PASSED.

All the emissions not reported below are too low against the prescribed limits.

EUT was measured during this section testing and all the test results are attached in next pages.

EUT: GPS Instant FIX M/N: GPS-BT74R

Test Date: Sep. 26, 2005 Temperature: 24°C Humidity: 47%

Reference Test Data No.: Neutral - # 2; Line - # 1





Site : No.2 Shielded room Data : 2 Condition : KNW-407 Phase : NEUTRAL

Limit : FCC 15B-B

Env. / Ins. : 24*C,47% / ESCS 30 Engineer: Cater Chou

EUT : GPS INSTANT FIX M/N:GPS-BT74R

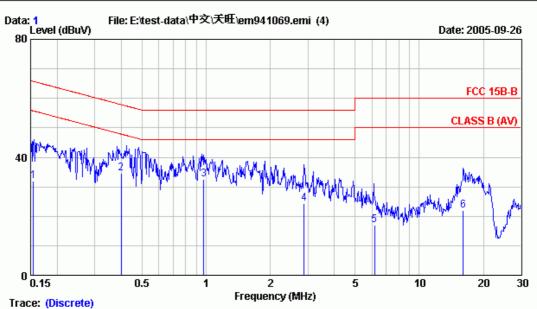
Power Rating : 120Vac/60Hz Test Mode : Operating

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading	Emission Level (dB V)	Limits (dB μ V)	Margin (dB)	Remark	
1	0.157	0.28	0.24	42.57	43.09	65.60	22.50	QР	
2	0.519	0.10	0.34	30.64	31.08	56.00	24.92	QР	
3	0.994	0.10	0.40	31.39	31.89	56.00	24.11	QР	
4	1.712	0.10	0.40	26.52	27.02	56.00	28.98	QР	
5	2.994	0.10	0.40	23.62	24.12	56.00	31.88	QР	
6	21.177	0.33	0.70	22.15	23.18	60.00	36.82	QР	

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.

2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





Site : No.2 Shielded room Data : 1 Condition : KNW-407 Phase : LINE

Limit : FCC 15B-B

Env. / Ins. : 24*C,47% / ESCS 30 Engineer: Cater Chou

EUT : GPS INSTANT FIX M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : Operating

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading	Emission Level (dB V)	Limits (dB μ V)	Margin (dB)	Remark	
1	0.155	0.29	0.24	31.55	32.08	65.74	33.66	QР	
2	0.399	0.10	0.32	34.04	34.46	57.88	23.42	QР	
3	0.975	0.10	0.40	31.99	32.49	56.00	23.51	QР	
4	2.877	0.10	0.40	23.71	24.21	56.00	31.79	QР	
5	6.179	0.15	0.54	16.18	16.87	60.00	43.13	QР	
6	16.058	0.22	0.70	21.03	21.95	60.00	38.05	QP	

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.

2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment are used during the radiated emission measurement:

3.1.1. 30MHz~1000MHz Frequency

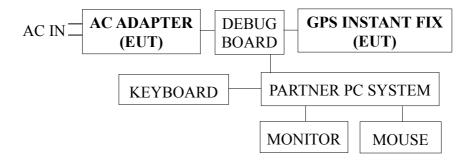
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06
2.	Test Receiver	Schaffner	SCR 3502	008	Mar. 04, 05'	Mar. 03, 06'
3.	Amplifier	HP	8447D	2944A06305	Mar. 10, 05'	Mar. 09, 06'
-	Double Cone Broadband Antenna	Schwarzbeck	VHA9103/ BBA9106	A3L	Feb. 18, 05'	Feb. 17, 06'
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Dec. 14, 04'	Dec. 13, 05

3.1.2. Above 1GHz frequency

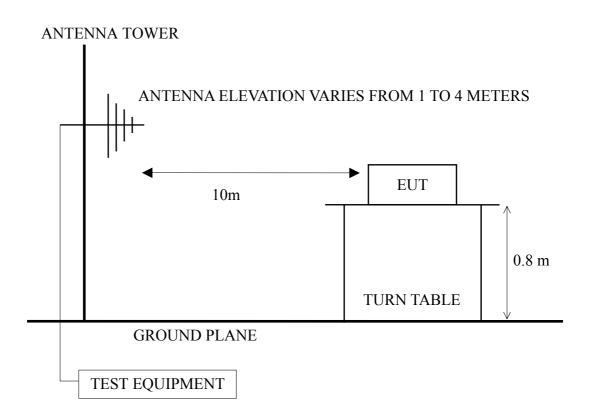
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06'
2.	Amplifier	HP	8449B	3008A01284	Jul. 05, 05'	Jul. 04, 06'
	(1GHz~26.5GHz)					
3.	Horn Antenna	EMCO	3115	9112-3775	May 04, 05'	May 03, 06'
	(1GHz~18GHz)					
4.	Horn Antenna	EMCO	3116	2653	Oct. 27, 04'	Oct. 26, 05'
	(18GHz~40GHz)					
5.	High Pass Filter	HP	84300-80038	005	Jan. 13, 05'	Jan. 12, 06'

3.2. Block Diagram of Test Setup

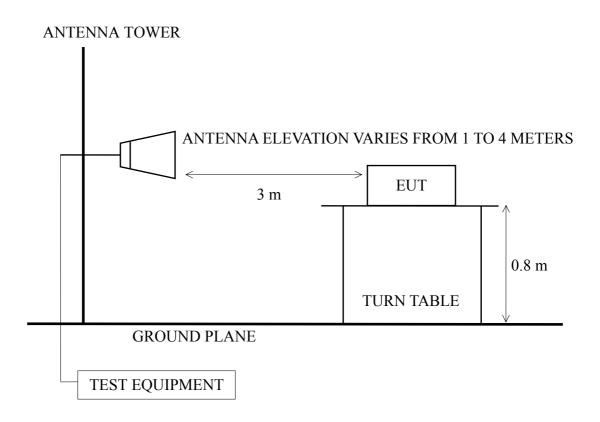
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30 ~ 1000MHz



3.2.3. Semi-Anechoic Chamber Setup Diagram (3m) for above 1GHz



3.3. Radiated Emission Limits (§15.209 Class B)

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMITS		
MHz	Meters	$\mu V/m$	$dB\mu V/m$	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
Above 960	3	500	54.0	
Above 1000 *(5)	2	74.0 dBµV/m (Peak)		
Above 1000	3	54.0 dBµV/m (Average)		

Remark:

- (1) Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$)
- (2) The tighter limit applies at the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
- (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

The configuration of EUT and its simulators were the same as those used in conducted measurement. Please refer to 2.4.

3.5. Test Procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which were mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003 on radiated measurement.

The bandwidth of the R&S Test Receiver SCR 3502 was set at 120kHz. The frequency range from 30MHz to 1000MHz was pre-scanned with a Peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The resolution bandwidth of spectrum analyzer 8593EM was set at 1MHz. The frequency range from 1GHz to 25GHz was checked and all final readings of measurement were with Peak and Average detector.

3.6. Radiated Emission Measurement Results

PASSED.

(All emissions not reported below are too low against the prescribed limits.)

For 30MHz~1000MHz frequency range:

EUT with following test modes were measured within semi-anechoic chamber and all the test results are listed in section 3.6.1.

Test Date : Oct. 04, 2005 Temperature : 23°C Humidity : 59%

The details of test modes and reference test data are as follows:

			Reference Test Data No.				
No.	Operation Mode	-	Hor	izontal	Vertical		
			30-300MHz	300-1000MHz	30-300MHz	300-1000MHz	
1.		CH 0-2402MHz	# 2	# 3	# 1	# 4	
2.	Transmitting	CH 39-2441MHz	# 4	# 2	# 3	# 1	
3.		CH 78-2480MHz	# 3	# 1	# 4	# 2	
4.	Receiving	CH 39-2441MHz	# 3	# 1	# 4	# 2	

For 1GHz~25GHz frequency range:

EUT with following test modes were measured within semi-anechoic chamber and all the test results are listed in section 3.6.2.

Remark 1:

For $2679 MHz \sim 18000 MHz$, Measurement was up to 10^{th} harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Remark 2:

For $18 \text{GHz} \sim 25 \text{GHz}$, The EUT was measured with the spectrum analyzer from 18 GHz to 25 GHz, and found the noise from EUT was lower than ambient, therefore there is no data was attached. Please refer to section 12.2.2. for the photos of testing setup.

Test Date: Oct. 04, 2005 Temperature: 23°C Humidity: 59%

The details of test modes and reference test data are as follows:

No	Operation Mode	Tested Channel	Reference Test Data No.						
100.	Operation wrote	Tested Chamilei	Hor	izontal			V	ertical	
			1000-2	2678MHz			1000-	2678MHz	
			Peak # 10	Average	# 11	Peak	# 5	Average	# 12
1.		CH 0-2402MHz	2679-5	5500MHz			2679-	5500MHz	
1.		C11 0-2+021v1112		# 6				# 7	
			5500-1	8000MHz			5500-	18000MHz	
				# 9				# 8	
			1000-2	2678MHz			1000-	2678MHz	
	Transmitting		Peak # 5	Average	# 11	Peak	# 6	Average	# 12
2.		CH 39-2441MHz	2679-5	5500MHz			2679-	5500MHz	
2.		CII 39-244 IIVIIIZ	# 7					# 8	
			5500-1	8000MHz			5500-	18000MHz	
			#	[‡] 10				# 9	
			1000-2	2678MHz			1000-	2678MHz	
			Peak # 6	Average	# 12	Peak	# 5	Average	# 11
3.		CH 78-2480MHz	2679-5500MHz			2679-5500MHz			
٦.		C11 /0-2400W111Z	# 7			# 8			
			5500-1	5500-18000MHz			5500-18000MHz		
			#	± 10				# 9	
			1000-2	2678MHz			1000-	2678MHz	
			Peak # 6	Average	# 12	Peak	# 5	Average	# 11
4	Receiving	СН 30 24/1МН2	2679-5	500MHz		2679-5500MHz			
-	Receiving	CH 39-2441MHz	#	# 10				# 9	
			5500-1	8000MHz		5500-18000MHz			
				# 7				# 8	

For Restricted Bands measurement:

EUT with following test mode measured during restricted bands testing and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

Test Date: Oct. 04, 2005 Temperature: 23°C Humidity: 59%

The details of test modes and reference test data are as follows:

No	Operation Mode	Tested Channel		Reference Test Data No.							
NO.	Operation wrode	Tested Chamilei	Horizontal				Vertical				
1		CH 0 2402MH-		2310-2450MHz				2310-2450MHz			
1.	Transmitting	CH 0-2402MHz	Peak	# 5	Average	# 8	Peak	# 6	Average	#7	
2	Transmitting			2450-2	570MHz			2450-	2570MHz		
Δ.		CH 78-2480MHz	Peak	# 1	Average	# 4	Peak	# 2	Average	# 3	

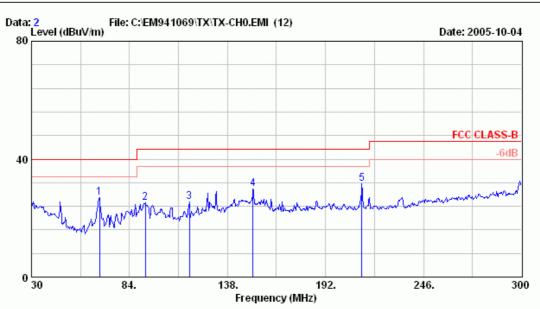
3.6.1. 30 - 1000MHz Frequency Range Radiated Emission Measurement Results



EMC Laboratory

No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443 Tel:+886-2-26092133 Fax:+886-2-26099303

Email:ttemc@ttemc.com.tw



Site : A/C Chamber Date : 2

Condition : 3m BBA9106(A3L) Polarity: HORIZONTAL

Limit : FCC CLASS-B

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

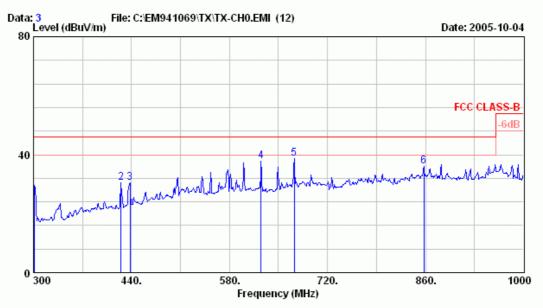
EUT : GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)

Ant. Cable Emission Freq. Factor Loss Reading Level Lim (MHz) (dB/m) (dB) (dBµV) (dBµV/m) (dBµ'	_
1 67.530 11.83 1.70 13.33 26.86 40.0	00 13.14 QP
2 92.640 16.16 2.00 7.00 25.16 43.	50 18.34
3 116.940 18.83 2.30 4.34 25.47 43.	50 18.03
4 152.040 20.67 2.60 6.57 29.84 43.	50 13.66
5 211.980 21.75 3.13 6.82 31.70 43.	50 11.80

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber Date : 3 Condition : 3m UHALP9108-A(0138) Polarity: HORIZONTAL Limit : FCC CLASS-B

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

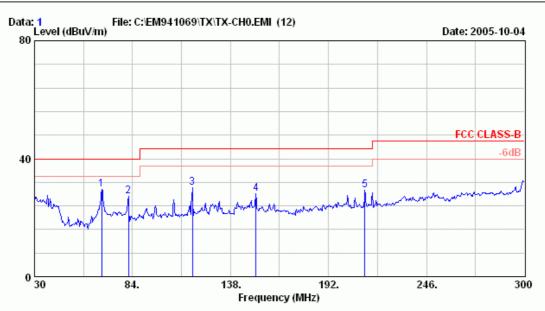
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	300.700	14.52	3.90	11.18	29.60	46.00	16.40	QP
2	425.300	17.16	5.10	8.35	30.61	46.00	15.39	
3	437.900	17.50	5.30	7.76	30.56	46.00	15.44	
4	624.800	21.30	6.20	10.19	37.69	46.00	8.31	
5	672.400	22.85	6.40	9.57	38.82	46.00	7.18	
6	857.900	25.95	7.20	2.85	36.00	46.00	10.00	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





: A/C Chamber : 1 Site Date Condition : 3m BBA9106(A3L)
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23*C/59% Polarity: VERTICAL

Engineer: henning

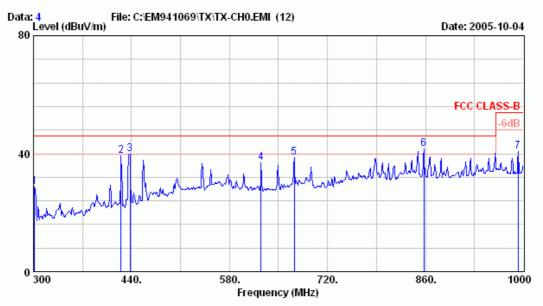
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	66.990	12.43	1.70	15.43	29.56	40.00	10.44	QP
2	81.840	14.35	1.90	10.95	27.20	40.00	12.80	
3	116.940	17.52	2.30	10.24	30.06	43.50	13.44	
4	152.040	21.54	2.60	4.06	28.20	43.50	15.30	
5	211.980	22.20	3.13	4.09	29.43	43.50	14.07	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m UHALP9108-A(0138)
Limit : FCC CLASS-B Date: 4 Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

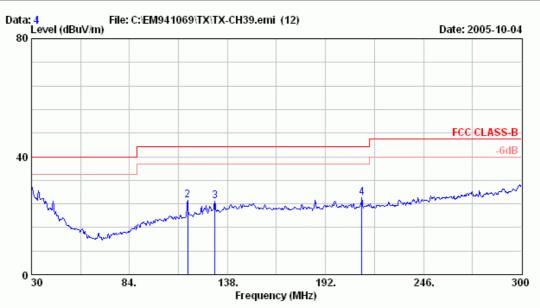
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	9.99	28.72	46.00	17.28	QP
2	425.300	17.22	5.10	16.89	39.21	46.00	6.79	
3	437.900	17.32	5.30	17.37	40.00	46.00	6.00	
4	624.800	21.14	6.20	9.72	37.07	46.00	8.93	
5	672.400	23.07	6.40	9.35	38.82	46.00	7.18	
6	857.900	25.75	7.20	8.73	41.68	46.00	4.32	
7	992.300	26.06	7.73	6.83	40.62	54.00	13.38	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m BBA9106(A3L)
Limit : FCC CLASS-B Date : 4

Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

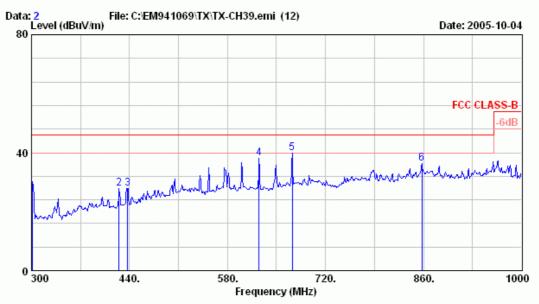
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1 2	30.000 116.130	24.86 18.76	1.10	4.06 4.21	30.02 25.27	40.00 43.50	9.98 18.23	QP
3	130.980 211.980	19.79 21.75	2.40	2.62	24.81	43.50 43.50	18.69 17.38	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m UHALP9108-A(0138)
Limit : FCC CLASS-B Date : 2

Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

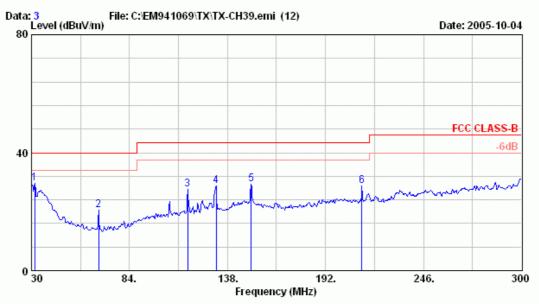
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	300.700	14.52	3.90	11.73	30.15	46.00	15.85	QP
2	425.300	17.16	5.10	5.56	27.82	46.00	18.18	
3	437.200	17.47	5.30	5.07	27.84	46.00	18.16	
4	624.800	21.30	6.20	10.47	37.97	46.00	8.03	
5	672.400	22.85	6.40	10.66	39.91	46.00	6.09	
6	857.900	25.95	7.20	3.24	36.39	46.00	9.61	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m BBA9106(A3L)
Limit : FCC CLASS-B Date: 3

Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

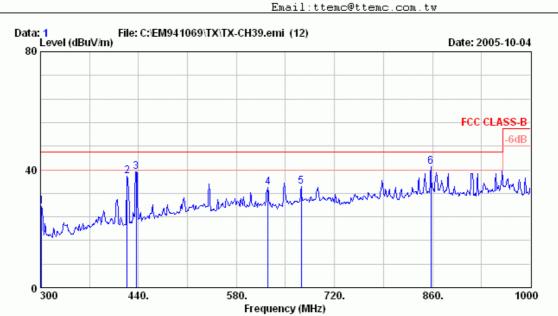
Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	31.890	22.15	1.10	6.23	29.48	40.00	10.52	QP
2	66.990	12.43	1.70	6.24	20.37	40.00	19.63	
3	116.130	17.58	2.30	7.76	27.64	43.50	15.86	
4	131.790	18.94	2.40	7.34	28.68	43.50	14.82	
5	150.960	21.78	2.60	4.81	29.19	43.50	14.31	
6	211.980	22.20	3.13	3.29	28.63	43.50	14.87	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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: A/C Chamber : 1 Site Date

Condition : 3m UHALP9108-A(0138) Polarity: VERTICAL Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23*C/59% Engineer: henning

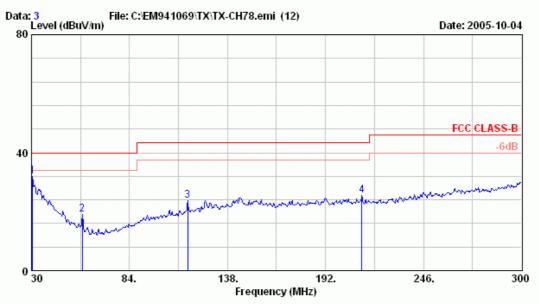
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	8.75	27.49	46.00	18.51	QP
2	423.900	17.21	5.10	15.39	37.70	46.00	8.30	
3	436.500	17.28	5.30	16.61	39.19	46.00	6.81	
4	624.800	21.14	6.20	6.59	33.93	46.00	12.07	
5	672.400	23.07	6.40	4.94	34.41	46.00	11.59	
6	857.900	25.75	7.20	8.03	40.97	46.00	5.03	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m BBA9106(A3L)
Limit : FCC CLASS-B Date : 3

Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

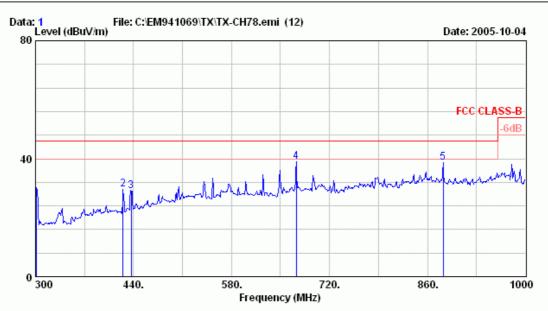
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

	Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.540	24.76	1.10	5.94	31.81	40.00	8.19	QP
2	58.080	13.25	1.60	4.17	19.02	40.00	20.98	
3	116.130	18.76	2.30	2.56	23.62	43.50	19.88	
4	211.980	21.75	3.13	0.57	25.45	43.50	18.05	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





: A/C Chamber Site Date : 1

Condition : 3m UHALP9108-A(0138) Polarity: HORIZONTAL Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23*C/59% Engineer: henning

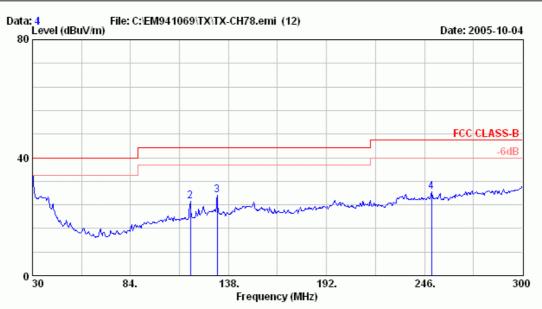
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	300.700	14.52	3.90	11.64	30.06	46.00	15.94	QP
2	425.300	17.16	5.10	7.35	29.61	46.00	16.39	
3	436.500	17.43	5.30	6.40	29.13	46.00	16.87	
4	672.400	22.85	6.40	9.85	39.10	46.00	6.90	
5	882.400	25.28	7.30	6.08	38.66	46.00	7.34	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m BBA9106(A3L)
Limit : FCC CLASS-B Date : 4

Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

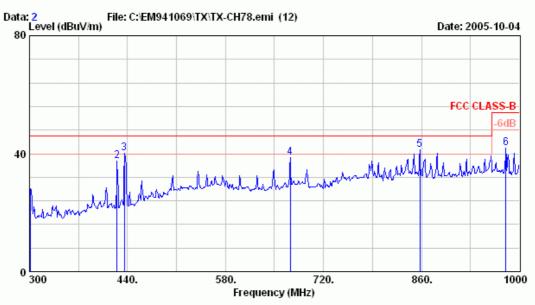
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

	Freq. (MHz)			Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.000	23.60	1.10	10.21	34.91	40.00	5.09	QP
2	116.940	17.52	2.30	5.47	25.29	43.50	18.21	
3	131.790	18.94	2.40	5.90	27.24	43.50	16.26	
4	249.780	25.00	3.50	-0.11	28.39	46.00	17.61	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber Date : 2 Condition : 3m UHALP9108-A(0138) Polarity: VERTICAL Limit : FCC CLASS-B

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

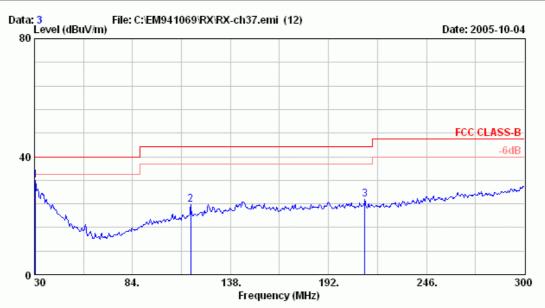
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	300.700	14.75	3.90	9.46	28.11	46.00	17.89	QP
2	425.300	17.22	5.10	15.05	37.37	46.00	8.63	
3	435.800	17.25	5.30	17.45	40.00	46.00	6.00	
4	672.400	23.07	6.40	9.10	38.57	46.00	7.43	
5	857.900	25.75	7.20	8.29	41.24	46.00	4.76	
6	980.400	26.26	7.70	7.93	41.89	54.00	12.11	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber Condition : 3m BBA9106(A3L) Date : 3

Polarity: HORIZONTAL

Limit : FCC CLASS-B

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

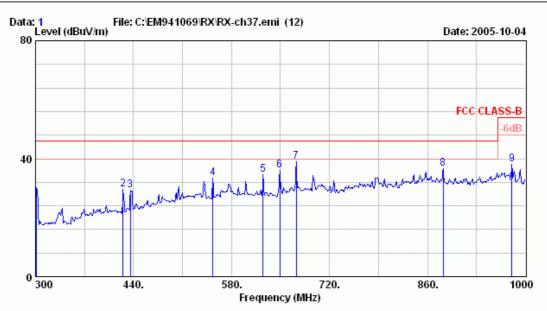
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

		Ant.	Cable		Emission				
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)		
1	30.540	24.76	1.10	5.94	31.81	40.00	8.19		
2	116.130	18.76	2.30	2.56	23.62	43.50	19.88		
3	211.980	21.75	3.13	0.57	25.45	43.50	18.05		

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





: A/C Chamber Site Date : 1

Condition : 3m UHALP9108-A(0138) Polarity: HORIZONTAL Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23*C/59% Engineer: henning

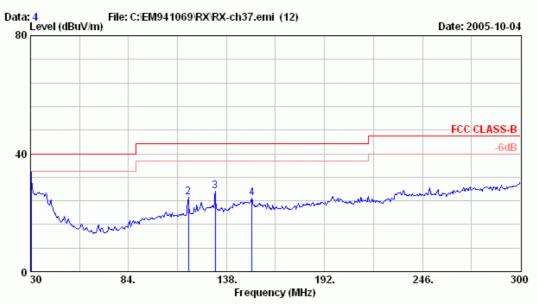
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

_		Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin F	emark
	1	300.700	14.52	3.90	11.64	30.06	46.00	15.94	
	2	425.300	17.16	5.10	7.35	29.61	46.00	16.39	
	3	435.800	17.41	5.30	6.55	29.26	46.00	16.74	
	4	553.400	19.34	6.80	7.39	33.54	46.00	12.46	
	5	624.800	21.30	6.20	7.14	34.64	46.00	11.36	
	6	649.300	21.42	6.30	8.28	36.00	46.00	10.00	
	7	672.400	22.85	6.40	9.85	39.10	46.00	6.90	
	8	882.400	25.28	7.30	4.08	36.66	46.00	9.34	
	9	980.400	25.74	7.70	4.67	38.11	54.00	15.89	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m BBA9106(A3L)
Limit : FCC CLASS-B Date : 4

Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

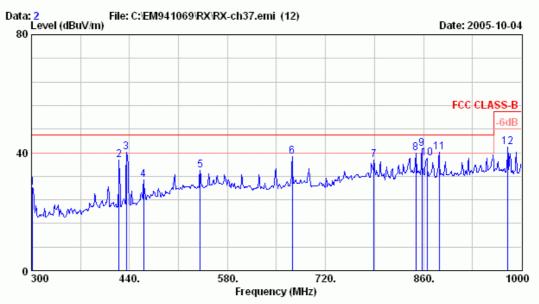
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

	Freq. (MHz)			Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.270	23.39	1.10	8.34	32.83	40.00	7.17	
2	116.940	17.52	2.30	5.47	25.29	43.50	18.21	
3	131.790	18.94	2.40	5.90	27.24	43.50	16.26	
4	152.040	21.54	2.60	0.90	25.04	43.50	18.46	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site : A/C Chamber
Condition : 3m UHALP9108-A(0138)
Limit : FCC CLASS-B Date : 2

Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

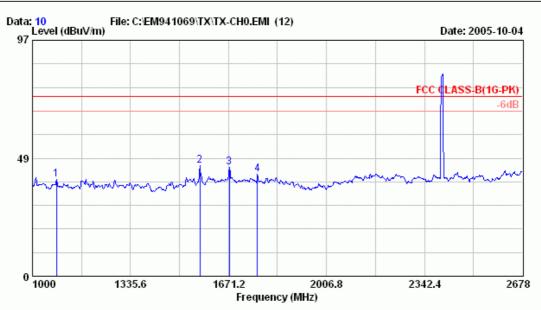
		Ant.	Cable		Emission		
	Freq.	Factor	Loss	Reading	Level	Limits	Margin Remark
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)
1	301.400	14.83	3.90	9.51	28.24	46.00	17.76
2	425.300	17.22	5.10	15.05	37.37	46.00	8.63
3	435.800	17.25	5.30	17.45	40.00	46.00	6.00
4	460.300	18.73	5.70	6.46	30.89	46.00	15.11
5	540.800	20.43	7.01	6.59	34.02	46.00	11.98
6	672.400	23.07	6.40	9.10	38.57	46.00	7.43
7	789.300	25.46	6.90	5.02	37.38	46.00	8.62
8	848.800	26.48	7.10	6.20	39.78	46.00	6.22
9	857.900	25.75	7.20	8.29	41.24	46.00	4.76
10	864.900	25.38	7.20	5.49	38.07	46.00	7.93
11	882.400	25.42	7.30	7.30	40.01	46.00	5.99
12	980.400	26.26	7.70	7.93	41.89	54.00	12.11

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

3.6.2. 1GHz-25GHz Frequency Range Radiated Emission Measurement Results



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: A/C Chamber Date : 10 Site

Condition : 3m 3115 Polarity: HORIZONTAL

Limit : FCC CLASS-B(1G-PK)
Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz : TX (CHO) Test Mode

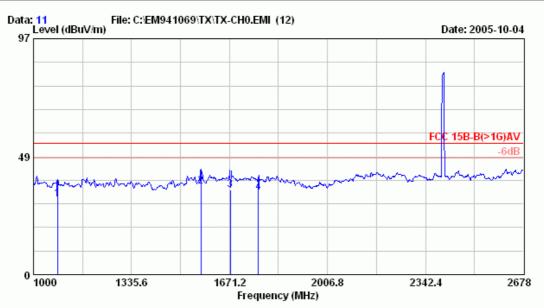
Freq. (MHz)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)		Remark
1 1082.222 2 1573.876 3 1674.556 4 1770.202	 	10.32 13.60 11.81 7.89	39.91 45.35 44.77 41.75	74.00 74.00 74.00 74.00	34.09 28.65 29.23 32.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Email:ttemc@ttemc.com.tw



Site : A/C Chamber Condition : 3m 3115 Limit : FCC 15B-B(>1G)AV Date : 11

Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)

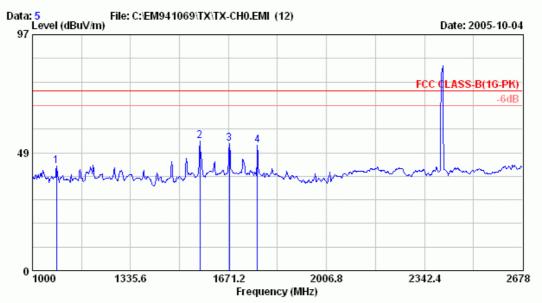
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1 1082.222	25.24	4.35	1.32	30.91	54.00	23.09	Average
2 1573.876	25.81	5.94	4.60	36.35	54.00	17.65	
3 1674.556	26.31	6.65	1.81	34.77	54.00	19.23	
4 1770.202	26.79	7.07	-0.11	33.75	54.00	20.25	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Email:ttemc@ttemc.com.tw



Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-PK) Date : 5

Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

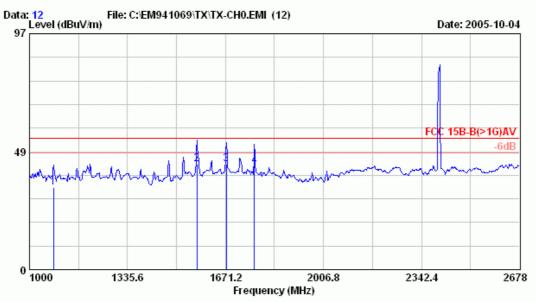
Power Rating : 120Vac/60Hz Test Mode : TX (CHO)

	Freq. (MHz)			Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1082.222	25.24	4.35	13.24	42.83	74.00	31.17	Peak
2	1573.876	25.81	5.94	21.57	53.32	74.00	20.68	
3	1674.556	26.31	6.65	19.40	52.36	74.00	21.64	
4	1770.202	26.79	7.07	17.72	51.58	74.00	22.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber Condition : 3m 3115 Limit : FCC 15B-B(>1G)AV Date : 12 Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)

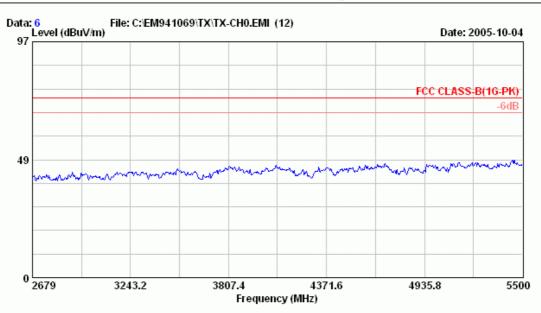
	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1 2		25.81		11.57	33.83 43.32	54.00 54.00	20.17	Average
3 4	1674.556 1770.202	26.31 26.79	6.65 7.07	10.40 8.72	43.36 42.58	54.00 54.00	10.64 11.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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: A/C Chamber Date : 6

Condition : 3m 3115 Polarity: HORIZONTAL

Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

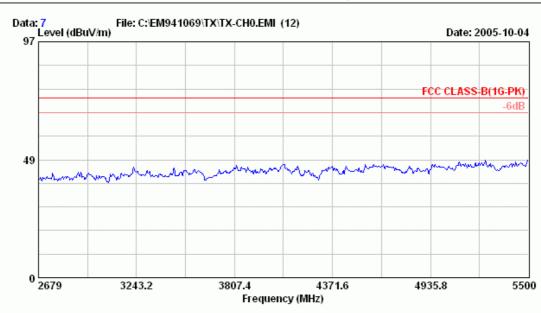
Power Rating: 120Vac/60Hz Test Mode : TX (CHO)



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Email:ttemc@ttemc.com.tw



: A/C Chamber Date : 7 Site

Condition : 3m 3115 Polarity: VERTICAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

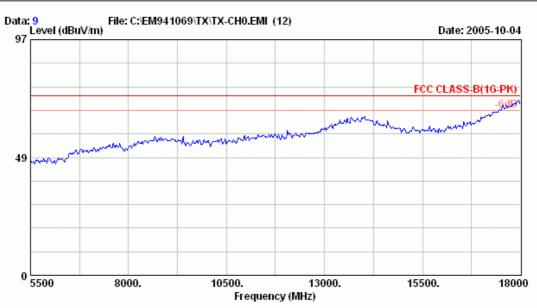
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)



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Site : A/C Chamber Date : 9

Condition : 3m 3115 Polarity: HORIZONTAL

Limit : FCC CLASS-B(1G-PK)
Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

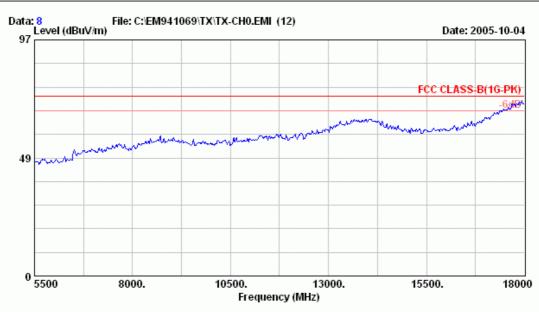
Power Rating : 120Vac/60Hz Test Mode : TX (CHO)



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Site : A/C Chamber Date : 8

Condition : 3m 3115 Polarity: VERTICAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

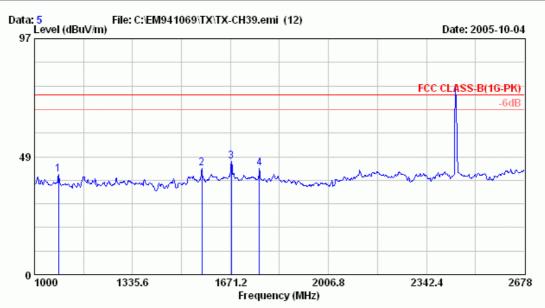
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CHO)



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Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-PK) Date : 5

Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

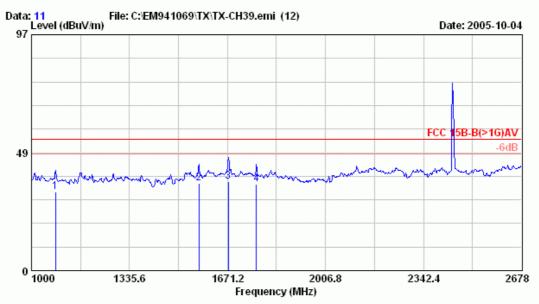
Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

	Freq.		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1 2 3	1082.222 1573.876 1674.556	 5.94	11.61 12.02 13.75	41.20 43.77 46.71	74.00 74.00 74.00	32.80 30.23 27.29	Peak
-	1770.202	 7.07	9.75	43.61	74.00	30.39	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber Condition : 3m 3115 Limit : FCC 15B-B(>1G)AV : 11 Date

Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

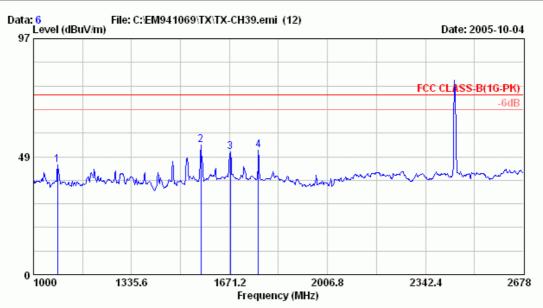
	Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1082.222	25.24	4.35	2.61	32.20	54.00	21.80	Average
2	1573.876	25.81	5.94	4.02	35.77	54.00	18.23	
3	1674.556	26.31	6.65	3.75	36.71	54.00	17.29	
4	1770.202	26.79	7.07	1.75	35.61	54.00	18.39	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-PK) Date : 6

Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

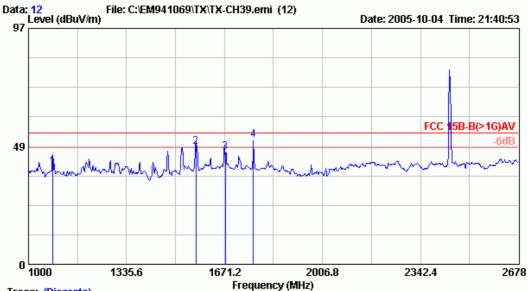
Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

	Freq. (MHz)			Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1082.222	25.24	4.35	15.39	44.98	74.00	29.02	Peak
2	1573.876	25.81	5.94	21.54	53.29	74.00	20.71	
3	1674.556	26.31	6.65	17.42	50.38	74.00	23.62	
4	1770.202	26.79	7.07	17.41	51.27	74.00	22.73	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Trace: (Discrete)

Site no. : A/C Chamber Data no. : 12

Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL

Limit : FCC 15B-B(>1G)AV

Env. / Ins. : 8593EM 23*C/59% Engineer : henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH39)

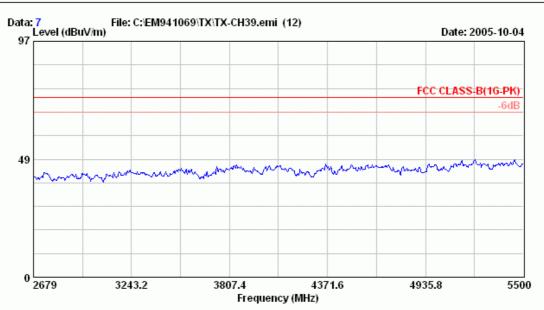
		Ant.	Cable		Emissio	n		
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBμV/m)	(dBμV/m)	(dB)	
			4 05		40.04			
Т	1082.222	25.24	4.35	10.64	40.24	54.00	13.76	Average
2	1573.876	25.81	5.94	16.53	48.27	54.00	5.73	
3	1674.556	26.31	6.65	13.32	46.28	54.00	7.72	
4	1770.202	26.79	7.07	17.41	51.27	54.00	2.73	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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: A/C Chamber Date : 7 Site

Condition : 3m 3115 Polarity: HORIZONTAL

: FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

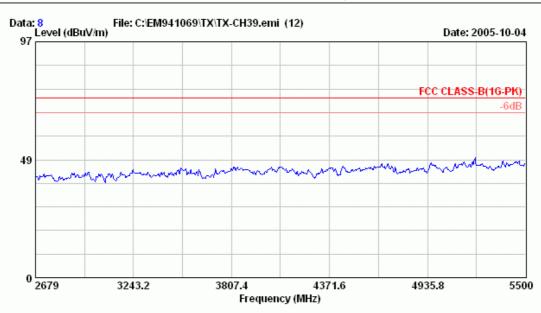
Power Rating: 120Vac/60Hz : TX (CH39) Test Mode



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: A/C Chamber Date : 8 Site

Condition : 3m 3115 Polarity: VERTICAL

Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

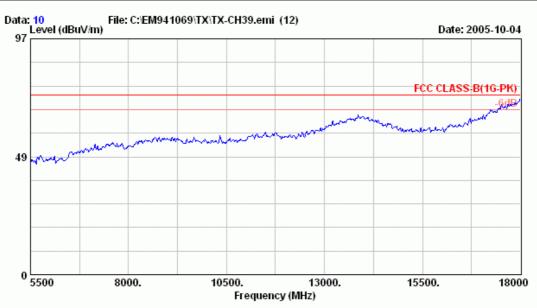
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz : TX (CH39) Test Mode



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: A/C Chamber Date Site : 10

Condition : 3m 3115 Polarity: HORIZONTAL

Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

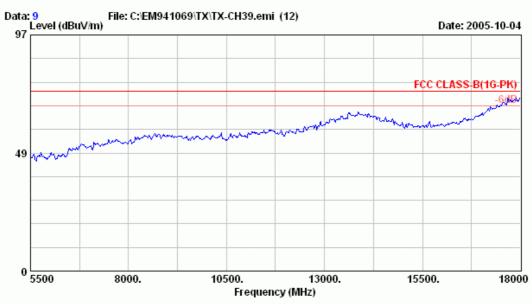
Power Rating : 120Vac/60Hz Test Mode : TX (CH39)



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: A/C Chamber

Condition : 3m 3115 Limit : FCC CLASS-B(1G-PK) Polarity: VERTICAL

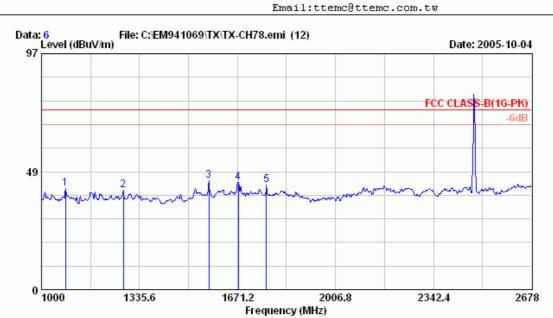
Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH39)



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Date : 6

Polarity: HORIZONTAL

Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

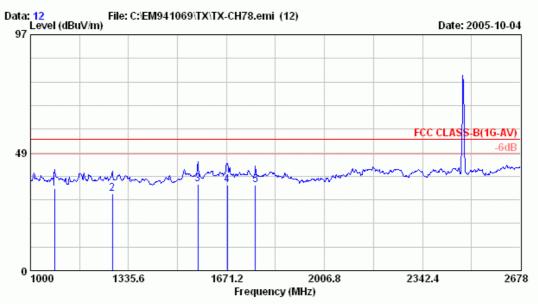
	Freq. (MHz)	Factor	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1082.222	25.24	4.35	12.03	41.62	74.00	32.38	Peak
2	1280.226	25.32	4.77	10.64	40.72	74.00	33.28	
3	1573.876	25.81	5.94	12.91	44.66	74.00	29.34	
4	1674.556	26.31	6.65	11.23	44.19	74.00	29.81	
5	1770.202	26.79	7.07	9.22	43.08	74.00	30.92	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Date : 12

Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-AV) Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

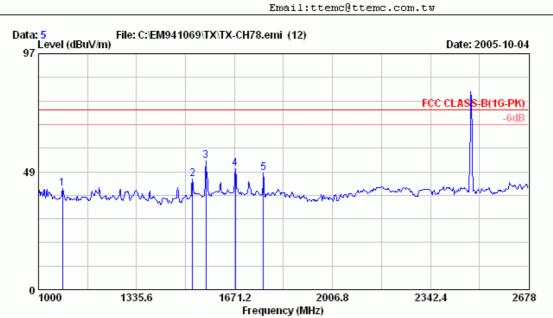
Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

_		Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
	1	1082.222	25.24	4.35	4.03	33.62	54.00	20.38	Average
	2	1280.226	25.32	4.77	1.64	31.72	54.00	22.28	
	3	1573.876	25.81	5.94	3.91	35.66	54.00	18.34	
	4	1674.556	26.31	6.65	2.23	35.19	54.00	18.81	
	5	1770.202	26.79	7.07	1.22	35.08	54.00	18.92	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-PK) Date : 5

Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

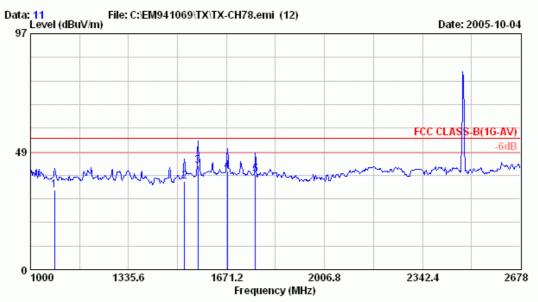
_		Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
	1	1082.222	25.24	4.35	12.01	41.60	74.00	32.40	Peak
	2	1526.892	25.54	5.61	14.18	45.34	74.00	28.66	
	3	1573.876	25.81	5.94	21.03	52.78	74.00	21.22	
	4	1674.556	26.31	6.65	16.65	49.61	74.00	24.39	
	5	1770.202	26.79	7.07	14.12	47.98	74.00	26.02	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-AV) Date : 11 Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)

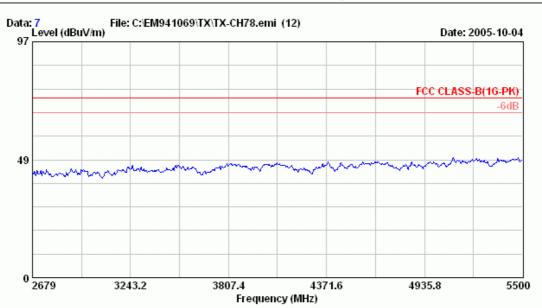
_		Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
	1	1082.222	25.24	4.35	3.01	32.60	54.00	21.40	Average
	2	1526.892	25.54	5.61	5.18	36.34	54.00	17.66	
	3	1573.876	25.81	5.94	11.03	42.78	54.00	11.22	
	4	1674.556	26.31	6.65	7.65	40.61	54.00	13.39	
	5	1770.202	26.79	7.07	5.12	38.98	54.00	15.02	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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: A/C Chamber Date: 7

Condition : 3m 3115 Polarity: HORIZONTAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

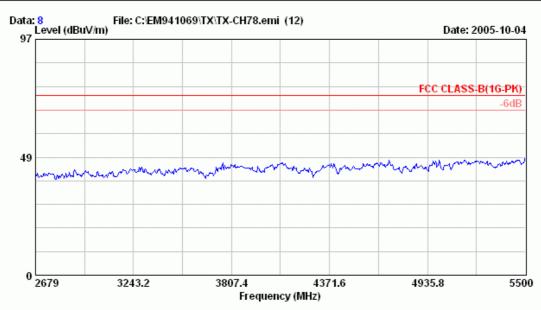
Power Rating: 120Vac/60Hz Test Mode : TX (CH78)



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Site : A/C Chamber Date : 8

Condition : 3m 3115 Polarity: VERTICAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

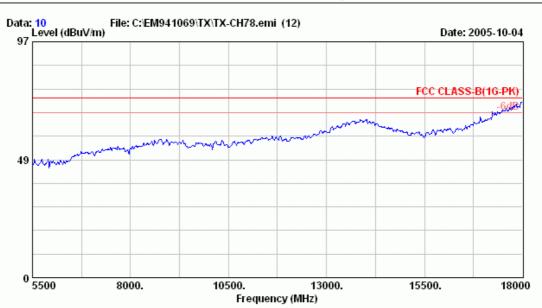
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)



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: A/C Chamber Date : 10

Condition : 3m 3115 Polarity: HORIZONTAL

Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

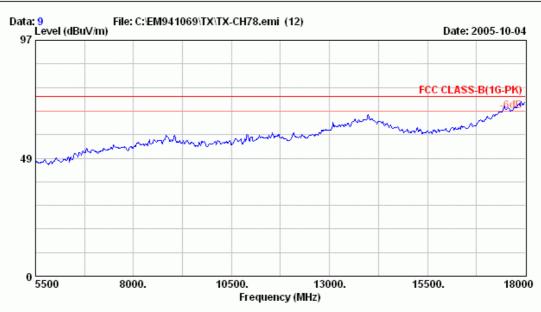
Power Rating: 120Vac/60Hz Test Mode : TX (CH78)



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Site : A/C Chamber Date : 9

Condition : 3m 3115 Polarity: VERTICAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

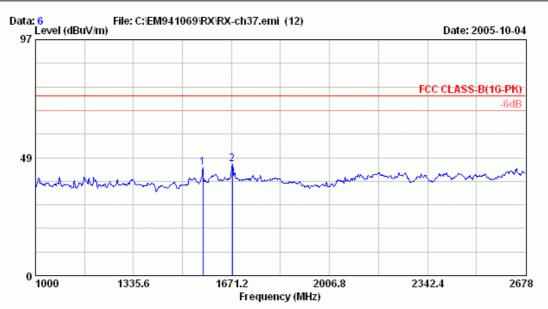
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : TX (CH78)



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Date : 6

Polarity: HORIZONTAL

Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

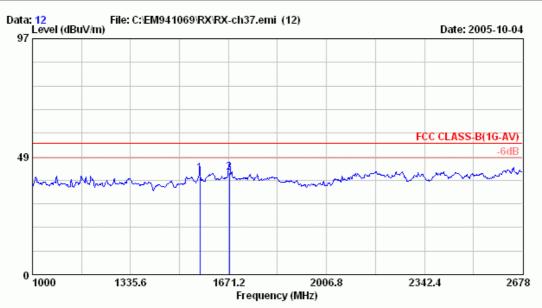
			Ant.	Cable		Emission			
		Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	$({\tt dB}\mu {\tt V/m})$	(dB)	
_									
	1	1573.876	25.81	5.94	12.77	44.52	74.00	29.48	
	2	1674.556	26.31	6.65	12.90	45.86	74.00	28.14	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-AV) Date : 12

Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

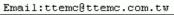
Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

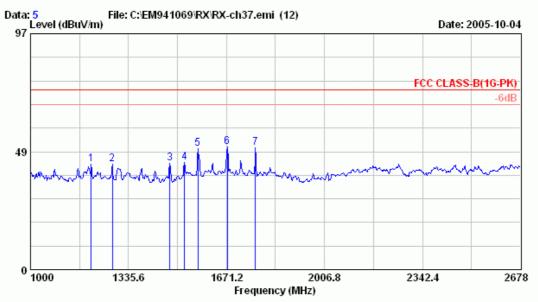
		Ant.	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)	
1	1573.876	25.81	5.94	9.90	41.65	54.00	12.35	
2	1674.556	26.31	6.65	9.07	42.03	54.00	11.97	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-PK) Date : 5 Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

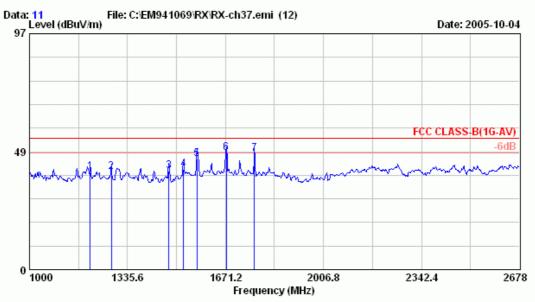
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin Remark (dB)
1	1208.072	25.29	4.60	13.35	43.24	74.00	30.76
2	1280.226	25.32	4.77	13.12	43.20	74.00	30.80
3	1476.552	25.39	5.36	13.01	43.75	74.00	30.25
4	1526.892	25.54	5.61	13.07	44.23	74.00	29.77
5	1573.876	25.81	5.94	18.09	49.84	74.00	24.16
6	1674.556	26.31	6.65	17.47	50.43	74.00	23.57
7	1770.202	26.79	7.07	16.34	50.20	74.00	23.80

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Site : A/C Chamber
Condition : 3m 3115
Limit : FCC CLASS-B(1G-AV) Date : 11 Polarity: VERTICAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

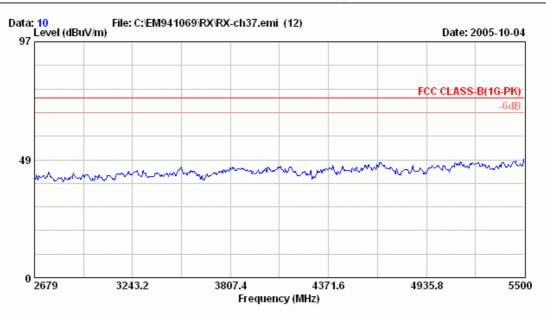
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin Remark (dB)
1	1208.072	25.29	4.60	10.40	40.29	54.00	13.71
2	1280.226	25.32	4.77	9.95	40.04	54.00	13.96
3	1476.552	25.39	5.36	9.75	40.50	54.00	13.50
4	1526.892	25.54	5.61	10.07	41.23	54.00	12.77
5	1573.876	25.81	5.94	13.64	45.39	54.00	8.61
6	1674.556	26.31	6.65	15.15	48.11	54.00	5.89
7	1770.202	26.79	7.07	13.77	47.63	54.00	6.37

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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: A/C Chamber Date : 10

Condition : 3m 3115 Polarity: HORIZONTAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

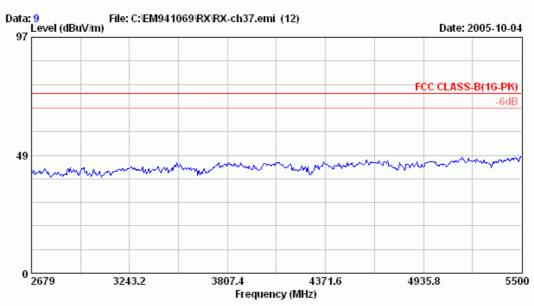
Power Rating: 120Vac/60Hz Test Mode : RX (CH39)



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Email:ttemc@ttemc.com.tw



Site : A/C Chamber Date : 9 Condition : 3m 3115 Polarity: VERTICAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

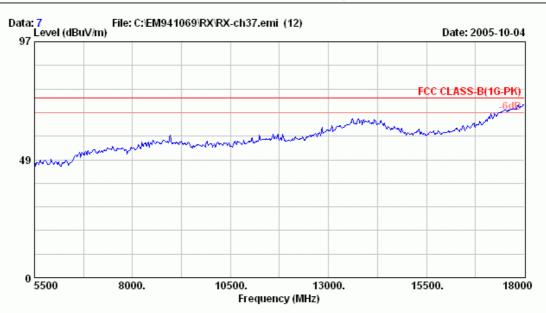
: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)



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Email:ttemc@ttemc.com.tw



: A/C Chamber Date: 7

Condition : 3m 3115 Polarity: HORIZONTAL

Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

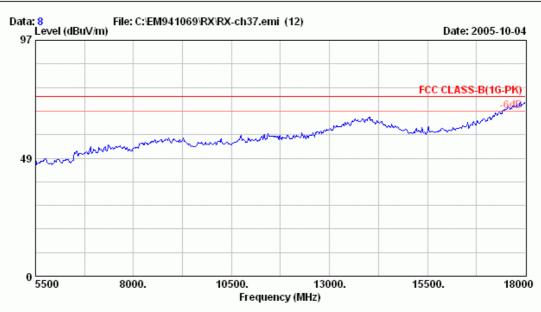
Power Rating: 120Vac/60Hz Test Mode : RX (CH39)



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Site : A/C Chamber Date : 8

Condition : 3m 3115 Polarity: VERTICAL

: FCC CLASS-B(1G-PK) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz Test Mode : RX (CH39)

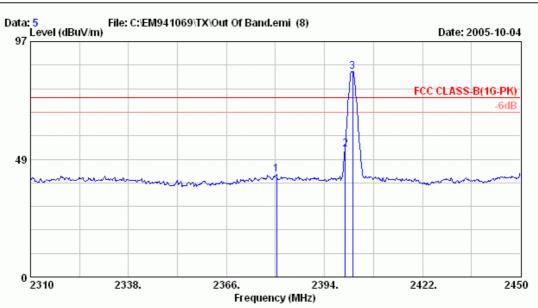
3.6.3. Restricted Bands Measurement Results



EMC Laboratory

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Date

: 5

Site : A/C Chamber

: 3m 3115 Polarity: HORIZONTAL Condition

Limit : FCC CLASS-B(1G-PK)
Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating: 120Vac/60Hz

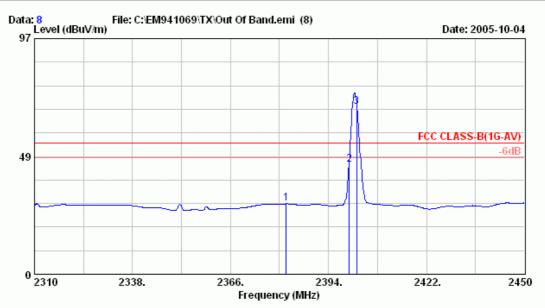
Test Mode : Out Of Band---2402MHz

_		Freq.	Factor	_	Emission Level (dBµV/m)	_	Remark	_
	2	2380.280 2399.880 2401.980	28.62	 7.44 17.50 49.67	42.34 52.47 84.64	 31.66 21.53 -10.64	Peak	*
				 		 		_

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).



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Site : A/C Chamber Condition : 3m 3115 Date : 8

Polarity: HORIZONTAL

Limit : FCC CLASS-B(1G-AV)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz

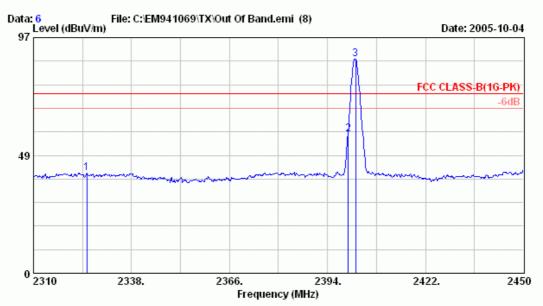
Test Mode : Out Of Band---2402MHz

	Freq. (MHz)			Reading (dBµV)	Emission Level (dBµV/m)		Margin (dB)	Remark	
_	2381.960 2399.880	28.58 28.62	6.33 6.35	-5.95 9.98	28.96 44.95	54.00 54.00	25.04 9.05	Average	
3	2401.980	28.62	6.36	34.02	69.00	54.00	-15.00		*

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).



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: A/C Chamber Date : 6

Condition : 3m 3115 Polarity: VERTICAL

Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz

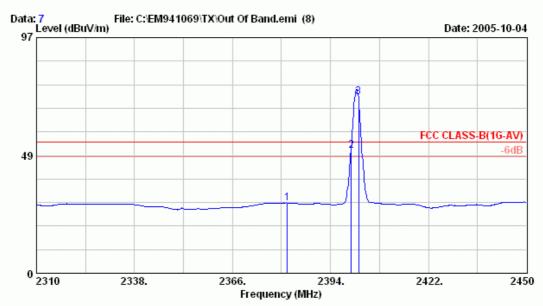
Test Mode : Out Of Band---2402MHz

		Freq.	Factor		_	Emission Level (dBµV/m)		_	Remark	
Ī	1	2325.260	28.48	6.26	6.62	41.36	74.00	32.64	Peak	
	2	2399.880	28.62	6.35	22.26	57.23	74.00	16.77		
	3	2401.980	28.62	6.36	53.02	87.99	74.00	-13.99		*

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).



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: A/C Chamber Date: 7

Condition : 3m 3115 Polarity: VERTICAL

Limit : FCC CLASS-B(1G-AV)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz

Test Mode : Out Of Band---2402MHz

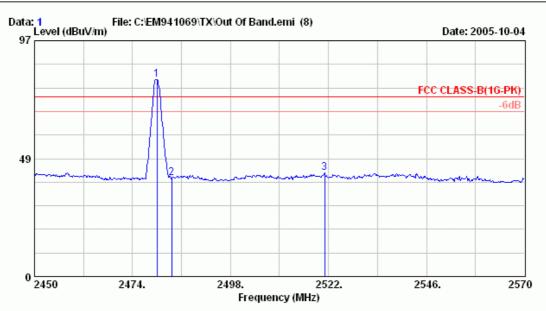
	Freq.			Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
2 2		28.58 28.62 28.62	6.35	-5.98 15.55 37.62	28.93 50.52 72.59	54.00 54.00 54.00	25.07 3.48 -18.59	Average	*

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).



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Email:ttemc@ttemc.com.tw



: A/C Chamber Date Site : 1

: 3m 3115 : FCC CLASS-B(1G-PK) Condition Polarity: HORIZONTAL

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating: 120Vac/60Hz

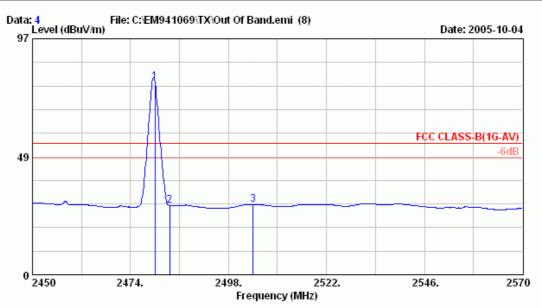
Test Mode : Out Of Band---2480MHz

	Freq.			Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
2		28.76 28.77 28.90	6.44 6.45 6.50	45.65 5.18 7.11	80.86 40.41 42.50	74.00 74.00 74.00	-6.86 33.59 31.50	Peak	- *

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).



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: A/C Chamber : 3m 3115 Site Date : 4

Condition Polarity: HORIZONTAL

: FCC CLASS-B(1G-AV) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz

Test Mode : Out Of Band---2480MHz

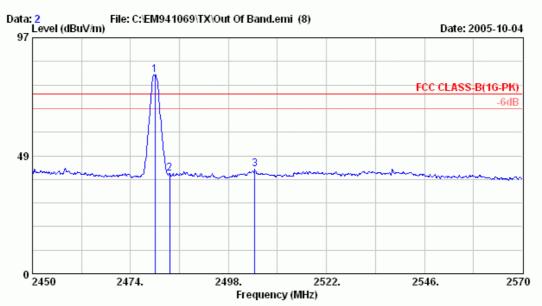
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)		_
1	2480.000	28.76	6.44	44.13	79.33	54.00	-25.33	Average	*
2	2483.600	28.77	6.45	-6.84	28.39	54.00	25.61		
3	2504.000	28.83	6.47	-6.45	28.85	54.00	25.15		
									-

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).



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Site : A/C Chamber Date : 2

Condition : 3m 3115 Polarity: VERTICAL

Limit : FCC CLASS-B(1G-PK)

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

EUT : GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz

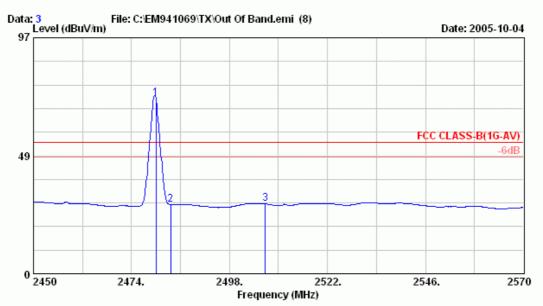
Test Mode : Out Of Band---2480MHz

		Ant.	Cable		Emission				
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)		
									_
1	2480.000	28.76	6.44	46.60	81.80	74.00	-7.80	Peak	*
2	2483.600	28.77	6.45	5.86	41.08	74.00	32.92		
3	2504.480	28.83	6.47	7.70	43.00	74.00	31.00		
									_

- The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).



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: A/C Chamber : 3m 3115 Site Date : 3

Condition Polarity: VERTICAL

: FCC CLASS-B(1G-AV) Limit

Env. / Ins. : 8593EM 23*C/59% Engineer: henning

: GPS Instant Fix M/N:GPS-BT74R

Power Rating : 120Vac/60Hz

Test Mode : Out Of Band---2480MHz

			Ant.	Cable		Emission				
		Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
		(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	$(dB\mu V/m)$	(dB)		
	1	2480.000	28.76	6.44	36.82	72.02	54.00	-18.02	Average	*
	2	2483.600	28.77	6.45	-6.87	28.35	54.00	25.65		
	3	2506.760	28.83	6.48	-6.39	28.93	54.00	25.07		
_										

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. "*" means that the fundamental frequency shall be ignored. According to FCC 15.209(d).

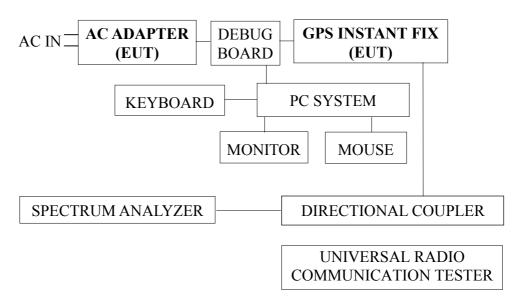
4. 20dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment were used during the bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US43300366	Aug. 23, 05'	Aug. 22. 06'
2.	Directional Coupler	A/R	DC7144	304087	Dec. 01, 04'	Nov. 30. 05'
3.	Communication Tester	R & S	CMU200	102280	Nov. 23, 04'	Nov. 22, 05'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(1))

Frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

4.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

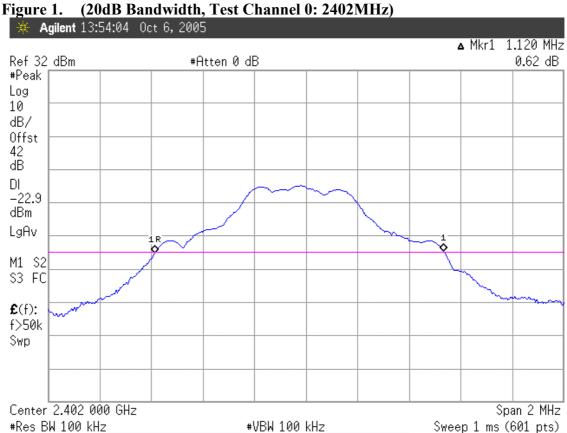
4.5. Test Results

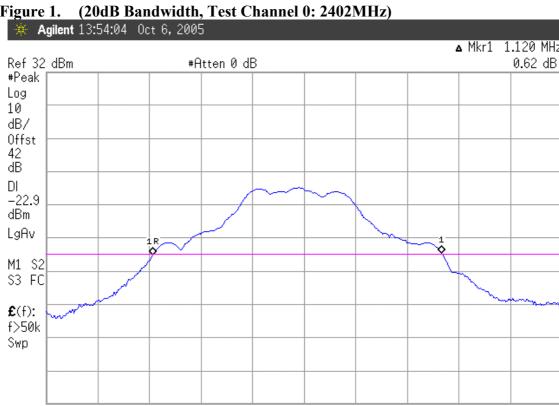
PASSED.

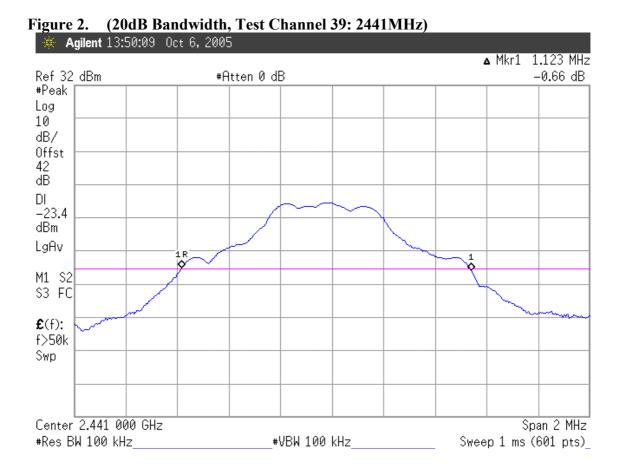
The testing data was attached in the next pages.

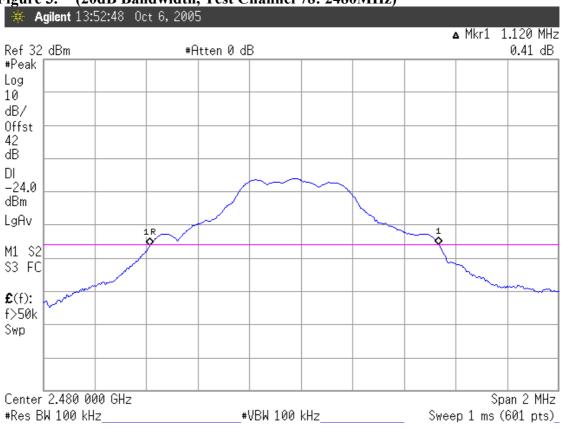
(Test Date: Oct. 06, 2005, Temperature: 23°C, Humidity: 55%)

Channel	Frequency	20dB Bandwidth	2/3 of the 20dB Bandwidth	Refer to Figure
0	2402MHz	1.120MHz	746.6kHz	Figure 1.
39	2441MHz	1.123MHz	748.6kHz	Figure 2.
78	2480MHz	1.120MHz	746.6kHz	Figure 3.









5. CARRIER FREQUENCY SEPARATION MEASUREMENT

5.1. Test Equipment

The following test equipment were used during the carrier frequency measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US43300366	Aug. 23, 05'	Aug. 22. 06'
2.	Directional Coupler	A/R	DC7144	304087	Dec. 01, 04'	Nov. 30. 05'
3.	Communication	R & S	CMU200	102280	Nov. 23, 04'	Nov. 22, 05'
	Tester					

5.2. Block Diagram of Test Setup

The same as section.4.2.

5.3. Specification Limits (§15.247(a)(1))

Frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

5.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the center frequency (2441MHz) was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The video bandwidth not to be smaller than resolution bandwidth, the peak was mark on adjacent bandwidth, the between of peak is carrier frequency separation.

5.5. Test Results

PASSED.

The testing data was attached in the next pages.

(Test Date: Oct. 05, 2005, Temperature: 23°C, Humidity: 55%)

- 1. 2441MHz adjacent channel of right carrier frequency separation: 995kHz (Refer to Figure 4.)
- 2. 2441MHz adjacent channel of left carrier frequency separation: 1.000MHz (Refer to Figure 5.)

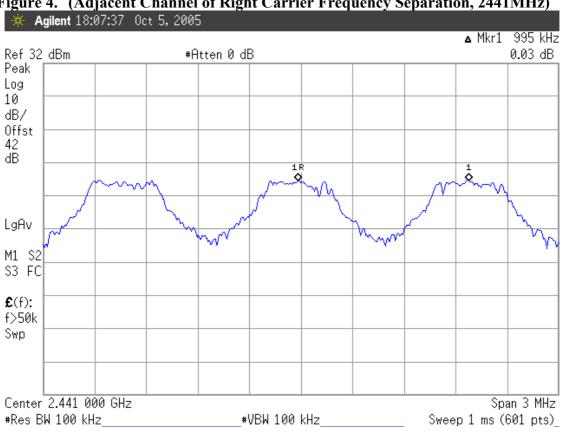
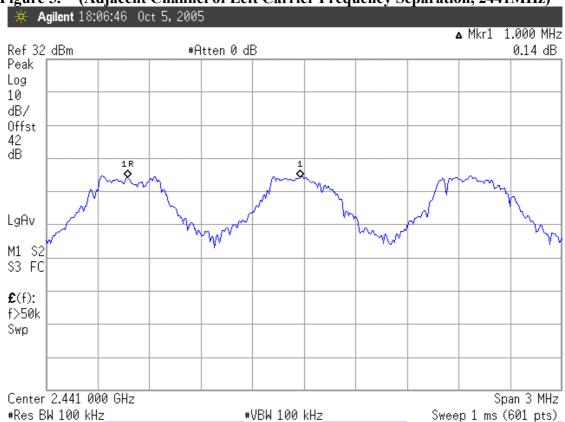


Figure 4. (Adjacent Channel of Right Carrier Frequency Separation, 2441MHz)





6. TIME OF OCCUPANCY MEASUREMENT

6.1. Test Equipment

The following test equipment were used during the time of occupancy measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US43300366	Aug. 23, 05'	Aug. 22. 06'
2.	Directional Coupler	A/R	DC7144	304087	Dec. 01, 04'	Nov. 30. 05'
3.	Communication Tester	R & S	CMU200	102280	Nov. 23, 04'	Nov. 22, 05'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems in the 2400-2483.5MHz shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by number of hopping channels employed.

6.4. Test Procedure

A The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 1MHz RBW and 1MHz VBW. VBW≥RBW; Span=zero span.

Centered on a hopping channel sweep=as necessary to capture the entire dwell time per hopping channel; Detector function=peak; Trace=view

B The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. VBW≥RBW; Span=zero span.

Centered on a hopping channel sweep=as necessary to capture the entire dwell time per hopping channel; Detector function=peak; Trace= view

6.5. Test Results

PASSED.

The testing data was attached in the next pages.

(Test Date: Oct. 06, 2005, Temperature: 23°C, Humidity: 55%)

Duty cycle: 79 channels*0.4 seconds = 31.6 seconds

DH1: The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels.

A. DH1 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 time per second and so for 31.6 seconds you have 320 time of appearance.

Each Tx-time per appearance is 366.7us.

10.13 time* 31.6 seconds* 0.3667 ms = 117.38 ms (<400 ms)

(Refer to Figure 6)

B. There are 50 channels in 5 second. Time period of each channel is 0.3667ms. So the average time of occupancy within 31.6 (0.4 seconds*79 number of hopping channels) is:

50 channel*31.6 seconds* 0.3667ms = 115.88ms (<400ms)

(Refer to Figure 7)

DH3: The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels.

A DH3 packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 time per second and so for 31.6 seconds you have 161 time of appearance.

Each Tx-time per appearance is 1.625ms.

5.1 time* 31.6 seconds* 1.625 ms = 261.885 ms (<400 ms)

(Refer to Figure 8)

B. There are 25 channels in 5 second. Time period of each channel is 0.3667ms. So the average time of occupancy within 31.6 (0.4 seconds*79 number of hopping channels) is:

25 channel*31.6 seconds* 1.625ms = 256.75ms (<400ms)

(Refer to Figure 9)

- DH5: The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels.
 - A DH5 packet need 5 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.7 hops per second with 79 channels. So you have each channel 3.37 time per second and so for 31.6 seconds you have 106 time of appearance.

Each Tx-time per appearance is 2.875ms.

3.37 time* 31.6 seconds* 2.875 ms = 301.16 ms (<400 ms)

(Refer to Figure 10)

B. There are 17 channels is 5 second. Time period of each channel is 0.3667ms. So the average time of occupancy within 31.6 (0.4 seconds*79 number of hopping channels) is:

17 channel* 31.6 seconds* 2.875 ms = 308.89 ms (<400 ms)

(Refer to Figure 11)



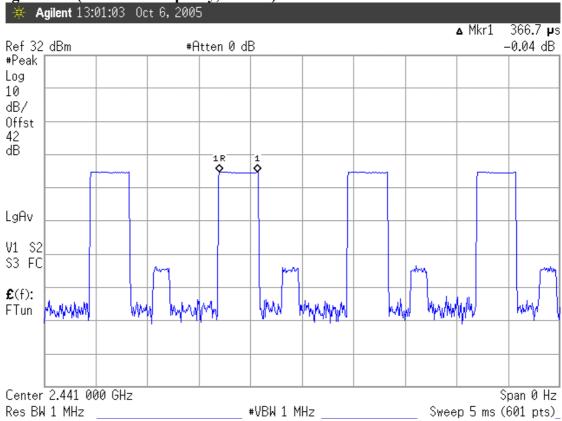
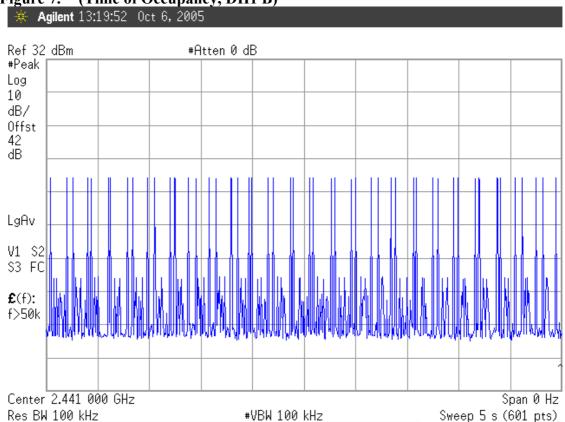


Figure 7. (Time of Occupancy, DH1 B)





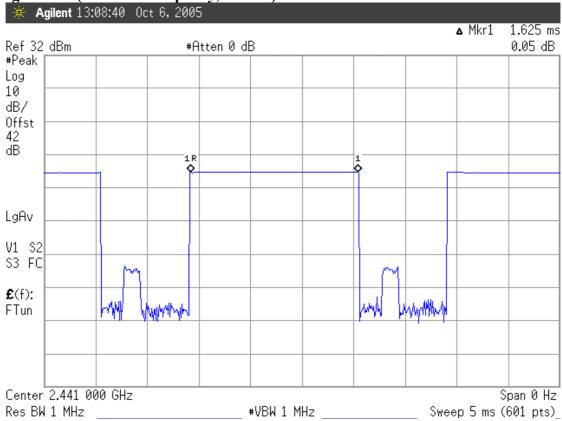
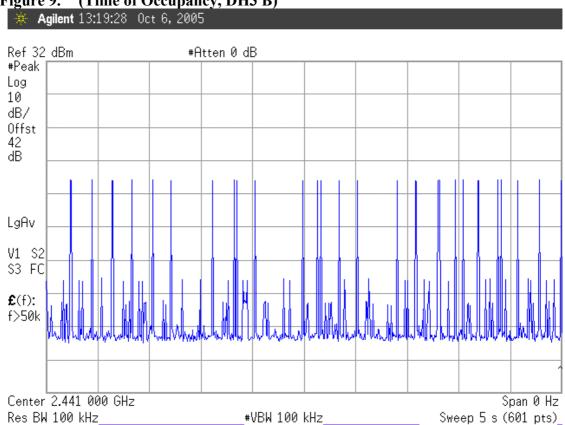


Figure 9. (Time of Occupancy, DH3 B)





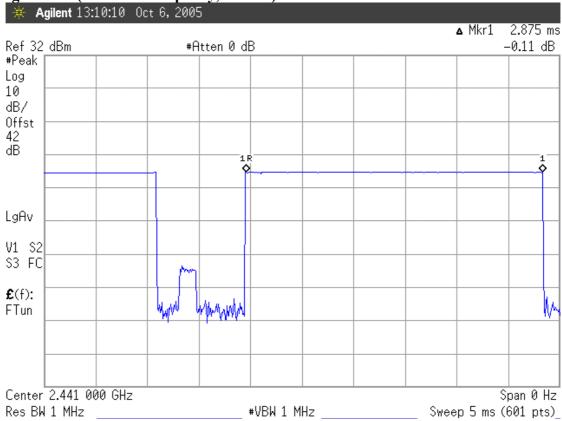
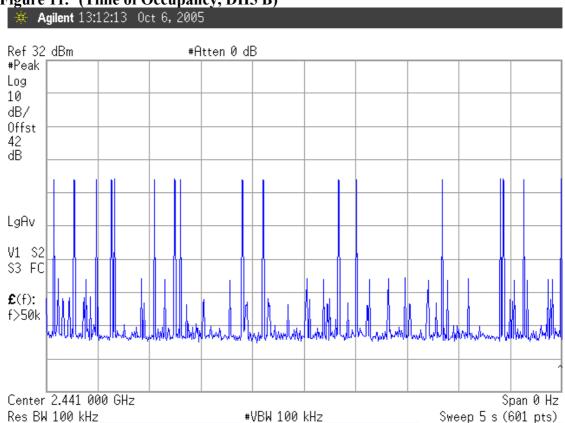


Figure 11. (Time of Occupancy, DH5 B)



7. NUMBER OF HOPPING CHANNELS MEASUREMENT

7.1. Test Equipment

The following test equipment were used during the number of hopping channels measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US43300366	Aug. 23, 05'	Aug. 22. 06'
2.	Directional Coupler	A/R	DC7144	304087	Dec. 01, 04'	Nov. 30. 05'
3.	Communication	R & S	CMU200	102280	Nov. 23, 04'	Nov. 22, 05'
	Tester					

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems which use fewer than 75 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels.

7.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. Sweep=Auto; Detector function=peak; Trace=Max hold

7.5. Test Results

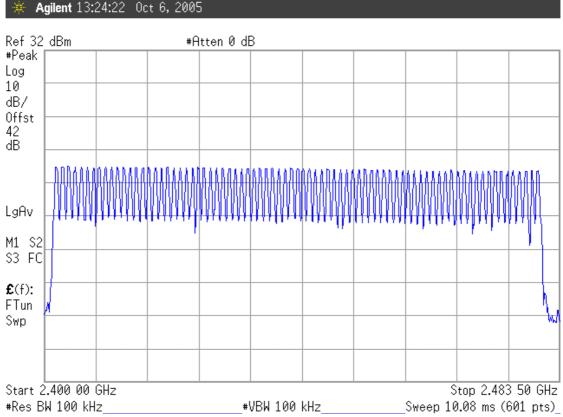
PASSED.

The testing data was attached in the next page.

(Test Date: Oct. 06, 2005, Temperature: 23°C, Humidity: 55%)

The number hopping channel is 79. (Refer to Figure 12)





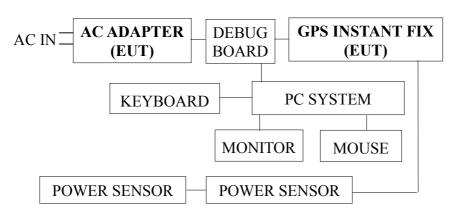
8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

8.1. Test Equipment

The following test equipment were used during the peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00001563	Jan. 15, 05'	Jan. 14, 06'
2.	Power Sensor	Anritsu	MA2491A	030873	Jan. 15, 05'	Jan. 14, 06'

8.2. Block Diagram of Test Setup



8.3. Specification Limits (§15.247(a)-(1) & (b)-(4))

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 125mW. (21dBm)

8.4. Test Procedure

The transmitter output was connected to the power sensor to measured and recorded the peak output power.

8.5. Test Results

PASSED.

(Test Date: Oct. 01, 2005, Temperature: 23°C, Humidity: 53%)

Channel	Frequency	Peak Output Power	Limit
1	2402MHz	-3.10dBm	21dBm
39	2441MHz	-3.62dBm	21dBm
78	2480MHz	-3.10dBm	21dBm

9. POWER SPECTRAL DENSITY MEASUREMENT

9.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US43300366	Aug. 23, 05'	Aug. 22. 06'
2.	Directional Coupler	A/R	DC7144	304087	Dec. 01, 04'	Nov. 30. 05'
3.	Communication	R & S	CMU200	102280	Nov. 23, 04'	Nov. 22, 05'
	Tester					

9.2. Block Diagram of Test Setup

The same as section.4.2.

9.3. Specification Limits (§15.247(d))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

9.4. Test Procedure

The RF output of EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, span 300kHz set sweep time = span/3kHz.

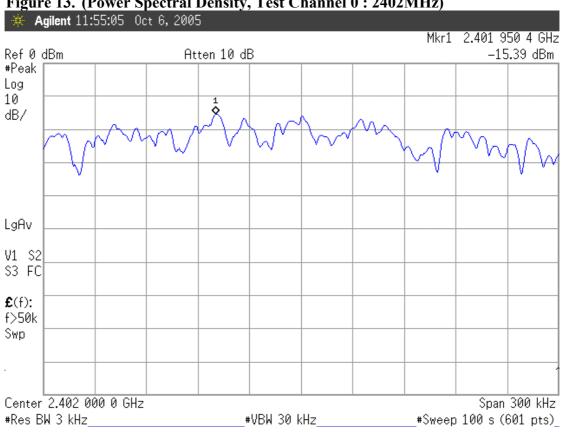
9.5. Test Results

PASSED.

The testing data was attached in the next pages.

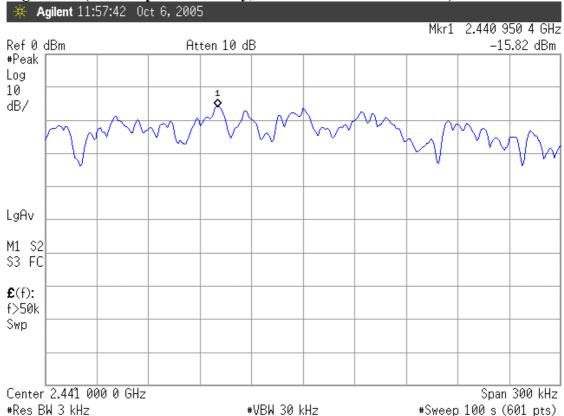
(Test Date : Oct. 06, 2005 Temperature : 23°C Humidity : 55 %)

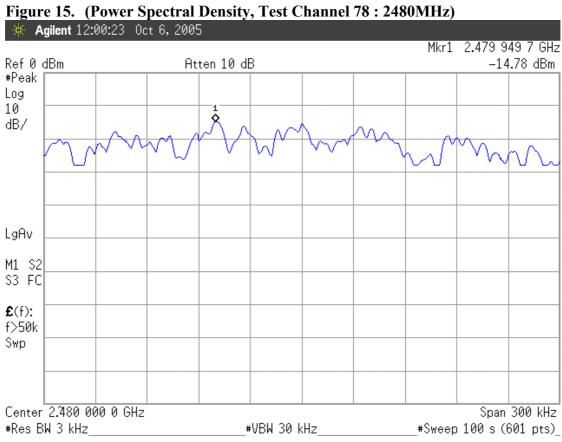
Channel	Frequency	Power Spectral Density	Limit	Refer to Figure
0	2402MHz	-15.39dBm	8dBm	Figure 13.
39	2441MHz	-15.82dBm	8dBm	Figure 14.
78	2480MHz	-14.78dBm	8dBm	Figure 15.











10.EMISSION LIMITATIONS MEASUREMENT

10.1.Test Equipment

The following test equipment were used during the emission limitations measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
4.	Spectrum Analyzer	Agilent	E4446A	US43300366	Aug. 23, 05'	Aug. 22. 06'
5.	Directional Coupler	A/R	DC7144	304087	Dec. 01, 04'	Nov. 30. 05'
6.	Communication	R & S	CMU200	102280	Nov. 23, 04'	Nov. 22, 05'
	Tester					

10.2.Block Diagram of Test Setup

The same as section.4.2.

10.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz 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 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)).(% This test result attaching to §3.6.3)

10.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

10.5. Test Results

PASSED.

The testing data was attached in the next pages.

(Test Date: Oct. 05, 2005, Temperature: 23°C, Humidity: 55%)

- 1. 2402MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -38.85dBm is max value that is lower than 20dB of primary channel. (Refer to figure 16.)
- 2. 2441MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -39.95dBm is max value that is lower than 20dB of primary channel. (Refer to figure 17.)
- 3. 2480MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -40.03dBm is max value that is lower than 20dB of primary channel. (Refer to figure 18.)

Note: The peak above the limit line is the carrier frequency.



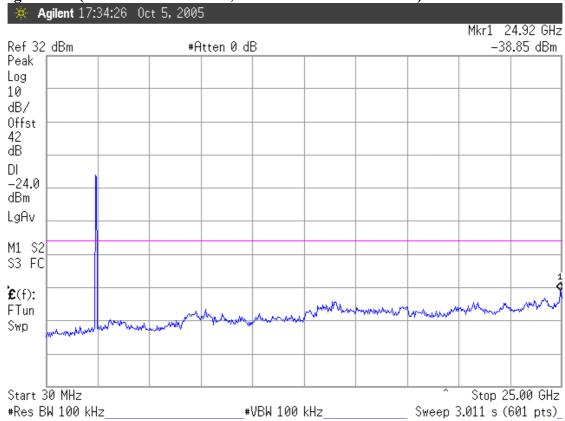
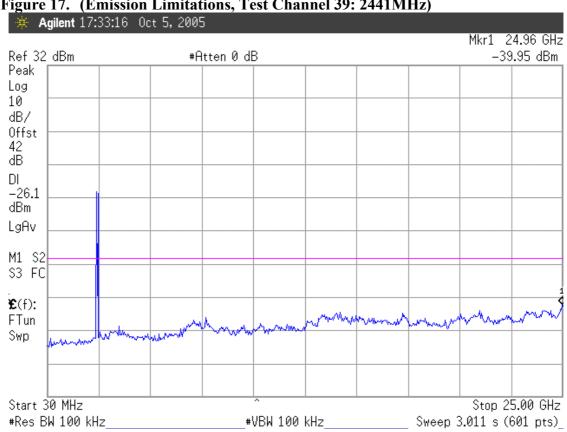


Figure 17. (Emission Limitations, Test Channel 39: 2441MHz)





11.BAND EDGES MEASUREMENT

11.1.Test Equipment

The following test equipment were used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US43300366	Aug. 23, 05'	Aug. 22. 06'
2.	Directional Coupler	A/R	DC7144	304087	Dec. 01, 04'	Nov. 30. 05'
3.	Communication	R & S	CMU200	102280	Nov. 23, 04'	Nov. 22, 05'
	Tester					

11.2.Block Diagram of Test Setup

The same as section.4.2.

11.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz 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 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)). (% This test result attaching to §3.6.3)

11.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW of spectrum analyzer to 100kHz and VBW of spectrum analyzer to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

11.5. Test Results

PASSED.

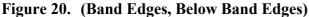
The testing data was attached in the next pages.

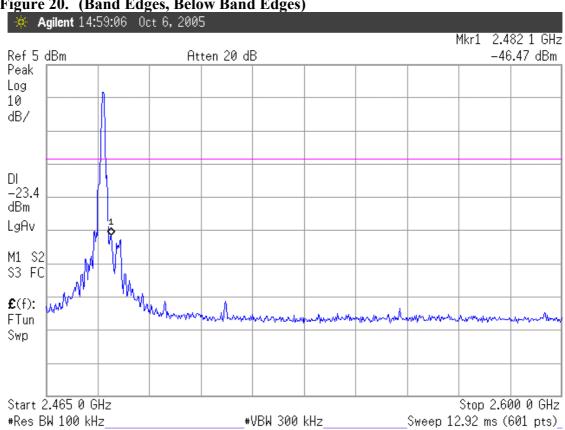
(Test Date: Oct. 06, 2005, Temperature: 23°C, Humidity: 55%)

- 1. Upper Band edge : The highest emission level is − 29.64dBm on 2.40067GHz ∘ (Refer to Figure 19.)
- 2. Below Band edge: The highest emission level is 46.47dBm on 2.4821GHz (Refer to Figure 20.)







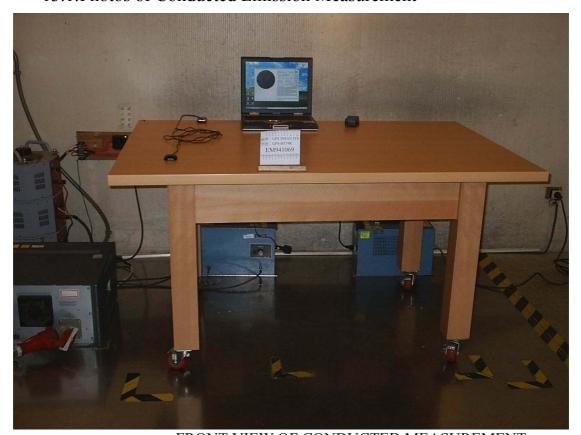


12. DEVIATION TO TEST SPECIFICATIONS

[NONE]

13.PHOTOGRAPHS

13.1.Photos of Conducted Emission Measurement

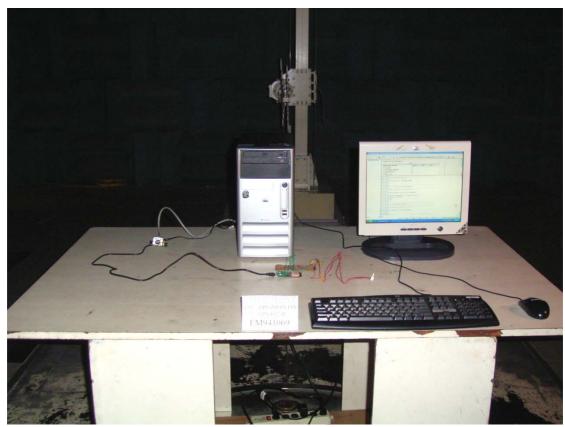


FRONT VIEW OF CONDUCTED MEASUREMENT

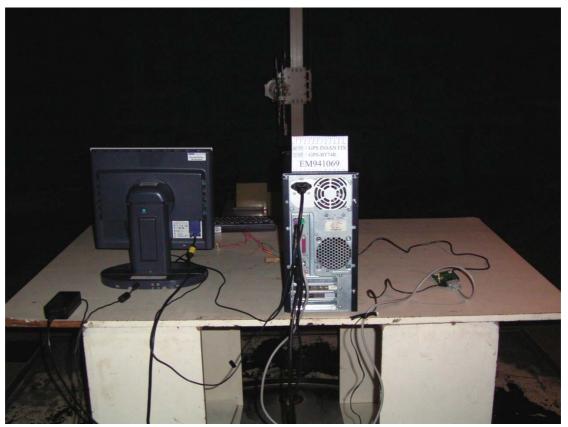


BACK VIEW OF CONDUCTED MEASUREMENT

13.2.Photos of Radiated Emission Measurement at Semi-Anechoic Chamber 13.2.1. 30-1000MHz Frequency Range

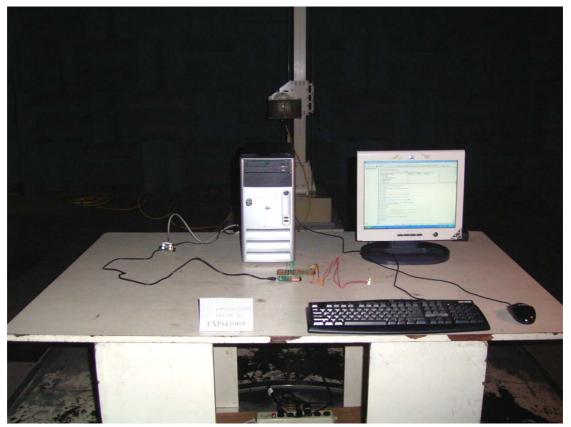


FRONT VIEW OF RADIATED MEASUREMENT

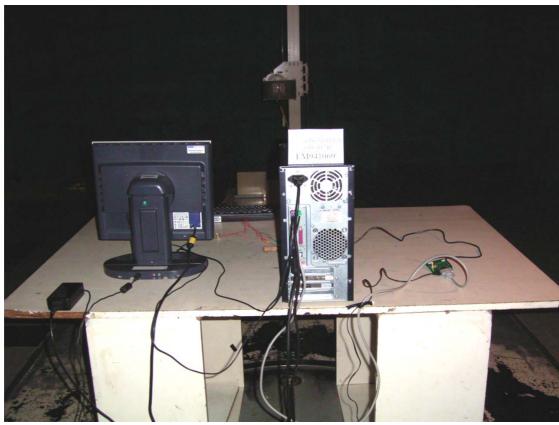


BACK VIEW OF RADIATED MEASUREMENT

13.2.2. 1-25GHz Frequency Range



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

13.3.Photos of Carrier Frequency Separation Measurement



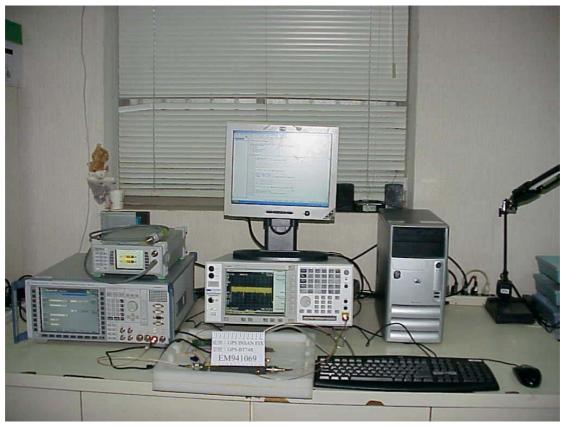
13.4.Photos of 20dB Bandwidth Measurement



13.5.Photos of Time of Occupancy Measurement



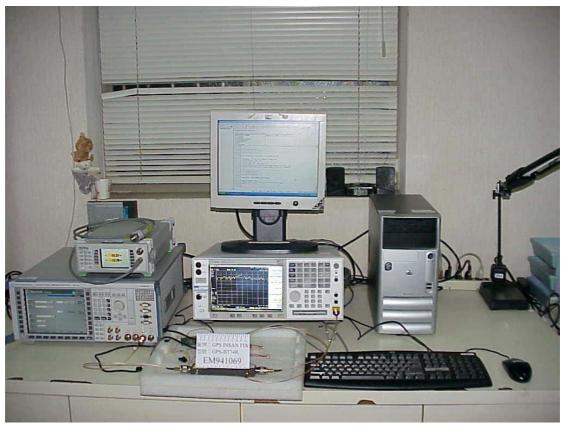
13.6.Photos of Number of Hoping Channels Measurement



13.7.Photos of Maximum Peak Output Power Measurement



13.8.Photos of Power Spectral Density Measurement



13.9.Photos of Emission Limitations & Band Edges Measurement

