

Product Name	U-NET Series
Model No.	AC124-1
FCC ID.	FU5AC124-1

Applicant	EVERSPRING INDUSTRY CO., LTD
Address	7th fl. 609 Wan Shou Road Sec. 1,Kweishan, Taoyuan Hsien
	333,Taiwan, R.O.C.

Date of Receipt	Mar. 03, 2009
Issued Date	Mar. 27, 2009
Report No.	093074R-RFUSP07V01
Report Version	V1.0

The Test Results relate only to the samples tested.

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# Test Report Certification

Issued Date: Mar. 27, 2009 Report No. : 093074R-RFUSP07V01



Product Name	U-NET Series		
Applicant	EVERSPRING INDUSTRY CO., LTD		
Address	7th fl. 609 Wan Shou Road Sec. 1, Kweishan, Taoyuan Hsien 333, Taiwan, R.O.C.		
Manufacturer	Dong-Guan Li Yuan Electronics Co., Ltd		
Model No.	AC124-1		
FCC ID.	FU5AC124-1		
Rated Voltage	DC 6V (Power By Battery)		
Working Voltage	DC 6V (Power By Battery)		
Trade Name	EVERSPRING		
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2008		
	ANSI C63.4: 2003		
Test Result	Complied		

The Test Results relate only to the samples tested.

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Documented By :

Genie Chang

(Senior Adm. Specialist / Genie Chang)

Tested By

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(Engineer / Molin Huang )

Approved By

(Manager / Vincent Lin)



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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

# 1. GENERAL INFORMATION

#### **1.1. EUT Description**

Product Name	U-NET Series	
Trade Name	EVERSPRING	
FCC ID.	FU5AC124-1	
Model No.	AC124-1	
Frequency Range	923MHz	
Type of Modulation	FSK	
Number of Channels	1	
Channel Control	Auto	
Antenna Type	Monopole	
Antenna Gain	Refer to the table "Antenna List"	

#### Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	EVERSPRING	N/A	0.73dBi for 923MHz

Center Frequency of Each Channel:

Channel	Frequency
Channel 1	923 MHz

- 1. The EUT is a U-NET Series with a built-in transceiver module.
- 2. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249.
- 3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmitter
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# **1.2.** Operation Description

The EUT is a U-NET Series with a built-in transceiver module. The EUT operation frequency is 923MHz. The signals modulated by FSK are transmitted from the Monopole Antenna of the EUT. Together with the patented U-NET Protocol the U-NET Module delivers a complete highly reliable RF communication solution. The U-NET Protocol uses Flood Detector, Temperature/Humidity Detector, illumination Sensor and sophisticated Routing to assure reliable full home coverage.

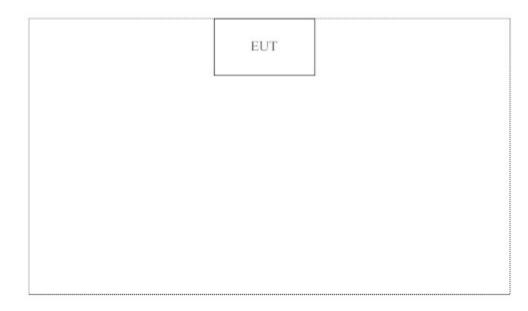
#### **1.3.** Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Produc	et Manufa	cturer Model No	. Serial No.	Power Cord
N/A				

Signal Cable Type	Signal cable Description
	N/A

#### 1.4. Configuration of Test System



# **1.5.** EUT Exercise Software

- (1) Setup the EUT as shown in section 1.4.
- (2) Open the EUT power.
- (3) Start the continuous transmits.
- (4) Verify that the EUT works correctly.

# 1.6. Test Facility

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: <u>http://tw.quietek.com/modules/myalbum/</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <u>http://www.quietek.com/</u>

Site Description:	File on	
	Federal Communications Commission	
	FCC Engineering Laboratory	
	7435 Oakland Mills Road	
	Columbia, MD 21046	
	Registration Number: 92195	
	Accreditation on NVLAP	
	NVLAP Lab Code: 200533-0	RIVUAN
Site Name:	Quietek Corporation	NVLAP Lab Code: 200533-0 🗸
Site Address:	No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C. TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789	
	E-Mail : <u>service@quietek.com</u>	

FCC Accreditation Number: TW1014



# 2. Conducted Emission

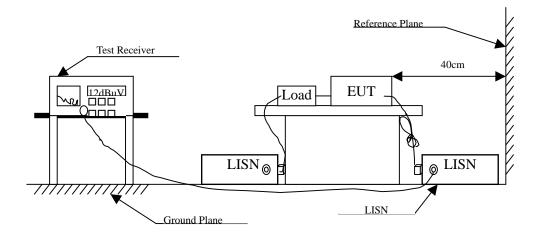
#### 2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2008	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2008	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2008	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2008	
5	No.1 Shielded Room	m	N/A		
NT (	A 11 · /	1.1 / 1			

Note: All instruments are calibrated every one year.

# 2.2. Test Setup



# 2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit						
Frequency	Limits					
MHz	QP	AV				
0.15 - 0.50	66-56	56-46				
0.50-5.0	56	46				
5.0 - 30	60	50				

Remarks: In the above table, the tighter limit applies at the band edges.

#### 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

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

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

## 2.5. Uncertainty

± 2.26 dB

# 2.6. Test Result of Conducted Emission

The EUT is powered by batteries. This test item is not performed.

# **3.** Radiated Emission

# 3.1. Test Equipment

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

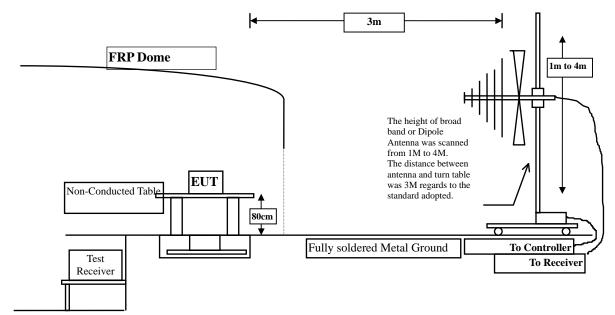
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1		Test Receiver	R & S	ESVS 10 / 834468/003	May, 2008
		Spectrum Analyzer	Advantest	R3162/00803480	May, 2008
		Pre-Amplifier	Advantest	BB525C/ 3307A01812	May, 2008
		Bilog Antenna	SCHAFFNER	CBL6112B / 2697	Sep., 2008
Site # 2		Test Receiver	R & S	ESCS 30 / 836858 / 022	May, 2008
		Spectrum Analyzer	Advantest	R3162 / 100803466	May, 2008
		Pre-Amplifier	Advantest	BB525C/3307A01814	May, 2008
		Bilog Antenna	SCHAFFNER	CBL6112B / 2705	May, 2008
		Horn Antenna	ETS	3115 / 0005-6160	Sep., 2008
		Pre-Amplifier	QTK	QTK-AMP-01/0001	May, 2008
Site # 3	Х	Test Receiver	R & S	ESI 26 / 838786/004	May, 2008
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2008
	Х	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2008
	Х	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2008
	Х	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2008
	Х	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2008
	Х	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2008
	Х	Pre-Amplifier	HP	8449B / 3008A01123	July, 2008

Note: 1. All equipments are calibrated every one year.

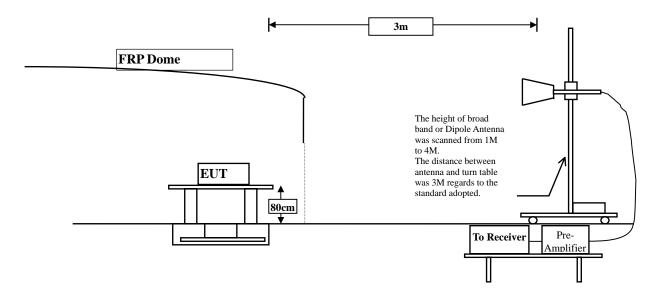
2. Test equipments marked by "X" are used to measure the final test results.

# 3.2. Test Setup

Below 1GHz



Above 1GHz



# 3.3. Limits

FCC Part 15 Subpart C Paragraph 15.249 Limits						
Frequency	Field Strength	of Fundamental	Field Strength of Harmonics			
MHz	(mV/m @3m) (dBuV/m @3m)		(uV/m @3m)	(dBuV/m @3m)		
902-928	50	94	500	54		
2400-2483.5	50	94	500	54		
5725-5875	50	94	500	54		

#### > Fundamental and Harmonics Emission Limits

Remarks : 1. RF Voltage  $(dBuV/m) = 20 \log RF$  Voltage (uV/m)

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### ➤ General Radiated Emission Limits

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

FCC Part 15 Subpart C Paragraph 15.209 Limits					
Frequency MHz	uV/m @3m	dBuV/m@3m			
30-88	100	40			
88-216	150	43.5			
216-960	200	46			
Above 960	500	54			

Remarks : 1. RF Voltage  $(dBuV/m) = 20 \log RF$  Voltage (uV/m)

2. In the Above Table, the tighter limit applies at the band edges.

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.

#### **3.4.** Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement. The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB beamwidth of the antenna. The worst radiated emission is measured on the Final Measurement.

The frequency range from 30MHz to 10th harminics is checked.

#### 3.5. Uncertainty

- ± 3.9 dB above 1GHz
- $\pm$  3.8 dB below 1GHz

## 3.6. Test Result of Radiated Emission

Product	:	U-NET Series					
Test Item	:	Fundamental Radiated Emission					
Test Site	:	No.3OATS					
Test Mode	:	Mode 1: Tr	ansmitter (923M	(Hz)			
Frequency		Correct	Reading	Measurement	Margin	Limit	
		Factor	Level	Level			
MHz		dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal							
Peak Detector:							
923.000		6.393	96.380	102.773	-11.227	114.000	

#### Note:

\_\_\_\_

- 1. Measurement Level = Reading Level + Correct Factor.
- 2. Correct Factor = Antenna Factor + Cable Loss PreAMP.

Frequency	Peak	Duty Cycle	Measurement	Margin	Limit
	Measurement		Level		
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Horizontal					
Average Detector:					
923	102.773	-20.000	82.773	-11.227	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle
- 2. The Duty Cycle is refer to section 5.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.

Product Test Item	:	U-NET Series Fundamental Radiated Emission					
Test Site	:	No.3OATS					
Test Mode	:	Mode 1: Tr	Mode 1: Transmitter (923MHz)				
Frequency		Correct Factor	Reading Level	Measurement Level	Margin	Limit	
MHz		dB	dBuV	dBuV/m	dB	dBuV/m	
Vertical							
Peak Detector:							
923.000		2.941	94.950	97.891	-16.109	114.000	

#### Note:

- 1. Measurement Level = Reading Level + Correct Factor.
- 2. Correct Factor = Antenna Factor + Cable Loss PreAMP.

Frequency	Peak Measurement	Duty Cycle	Measurement Level	Margin	Limit
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Vertical Average Detector:					
923	97.891	-20.000	77.891	-16.109	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle
- 2. The Duty Cycle is refer to section 5.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.

Product	: U-NET Series						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 1	: Transmitter (923	MHz)				
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
<b>Peak Detector:</b>							
1846.000	-9.218	52.900	43.681	-30.289	74.000		
2769.000	-5.969	46.220	40.251	-33.719	74.000		
3692.000	-4.192	45.600	41.408	-32.562	74.000		
4615.000	-1.021	44.960	43.940	-30.030	74.000		
5538.000	1.026	45.500	46.526	-27.444	74.000		
6461.000	1.860	46.490	48.350	-25.620	74.000		
7384.000	5.776	43.300	49.075	-24.895	74.000		
8307.000	6.360	42.740	49.100	-24.870	74.000		
9230.000	8.025	41.790	49.814	-24.156	74.000		

# Average Detector:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "\*", means this data is the too weak instrument of signal is unable to test.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product Test Item Test Site Test Mode	<ul> <li>U-NET Series</li> <li>Harmonic Radiated Emission Data</li> <li>No.3 OATS</li> <li>Mode 1: Transmitter (923MHz)</li> </ul>						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Vertical							
Peak Detector:							
1846.000	-9.218	51.480	42.261	-31.709	74.000		
2769.000	-5.969	44.530	38.561	-35.409	74.000		
3692.000	-4.192	46.450	42.258	-31.712	74.000		
4615.000	-1.021	43.380	42.360	-31.610	74.000		
5538.000	1.026	52.840	53.866	-20.104	74.000		
6461.000	1.860	49.730	51.590	-22.380	74.000		
7384.000	5.776	42.930	48.705	-25.265	74.000		
8307.000	6.360	43.290	49.650	-24.320	74.000		
9230.000	8.025	41.020	49.044	-24.926	74.000		

#### **Average Detector:**

--

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "\*", means this data is the too weak instrument of signal is unable to test.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	U-NET Series
Test Item	:	General Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (923 MHz)

	Frequency	Correct	Reading	Measurement	Margin	Limit
		Factor	Level	Level		
=	MHz	dB	dBuV	dBuV/m	dB	dBuV/m
	Horizontal					
	432.550	0.635	31.070	31.705	-14.295	46.000
	544.100	4.151	33.799	37.950	-8.050	46.000
	595.025	3.331	34.750	38.081	-7.919	46.000
	653.225	1.775	35.612	37.387	-8.613	46.000
	747.800	3.733	38.979	42.712	-3.288	46.000
	878.750	6.207	31.448	37.655	-8.345	46.000
	Vertical					
	71.225	-11.097	44.198	33.101	-6.899	40.000
	100.325	-5.972	35.917	29.946	-13.554	43.500
	177.925	-1.322	24.244	22.922	-20.578	43.500
	461.650	-2.246	25.417	23.172	-22.828	46.000
	607.150	1.986	25.202	27.188	-18.812	46.000
	747.800	1.483	27.872	29.355	-16.645	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "" " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

# 4. Band Edge

# 4.1. Test Equipment

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Test Receiver	R & S	ESI 26 / 838786/004	May, 2008
Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2008
Х	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2008
Х	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2008
Х	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2008
Х	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2008
Х	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2008
Х	Pre-Amplifier	HP	8449B / 3008A01123	July, 2008
OAT	S No.3			

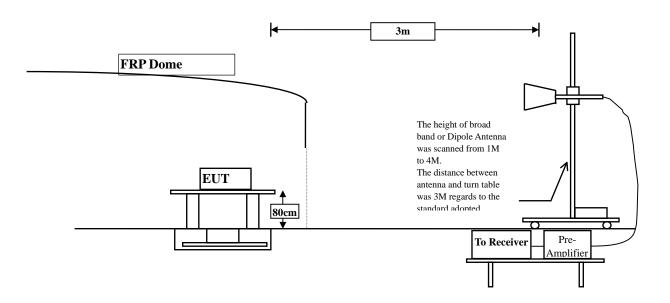
Note: 1. All equipments are calibrated every one year.

2. The test equipments marked by "X" are used to measure the final test results.

#### 4.2. Test Setup

#### **RF Radiated Measurement:**

Above 1GHz



#### **4.3.** Limit

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)).

#### 4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30 )is 120 kHz, above 1GHz are 1 MHz.

#### 4.5. Uncertainty

Conducted is  $\pm 1.27$  dB Radiated is  $\pm 3.9$  dB.

## 4.6. Test Result of Band Edge

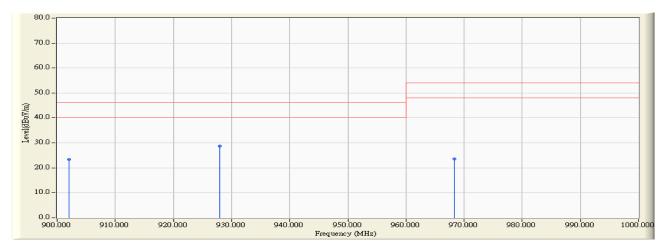
Product	:	U-NET Series
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (923MHz)

#### **RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
01(Quasi-Peak)	928.000	4.622	24.200	28.821	54.000	Pass

#### Figure Channel 01:

#### Horizontal (Quasi-Peak)



- 1. Quasi-Peak measurements: RBW=100kHz,VBW=1MHz,Sweep: Auto.
- 2. "\*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.

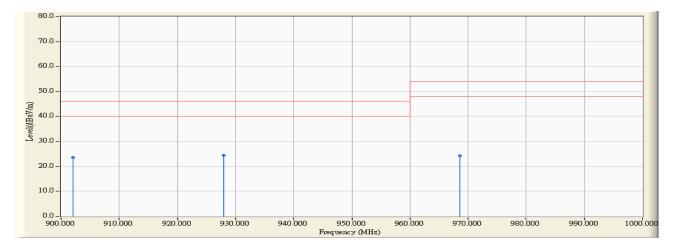
Product	:	U-NET Series
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (923MHz)

#### **RF** Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
01(Quasi-Peak)	928.000	5.602	18.760	24.361	54.000	Pass

#### Figure Channel 01:

#### Vertical (Quasi-Peak)



- 1. Quasi-Peak measurements: RBW=100kHz,VBW=1MHz,Sweep: Auto.
- 2. "\*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.

# 5. Duty Cycle

#### 5.1. Test Equipment

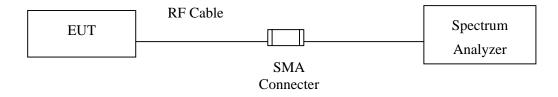
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr, 2008

Note: 1. All equipments are calibrated every one year.

2. The test equipments marked by "X" are used to measure the final test results.

#### 5.2. Test Setup



#### 5.3. Uncertainty

 $\pm$  150Hz

# 5.4. Test Result of Duty Cycle

Product	:	U-NET Series
Test Item	:	Duty Cycle Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (923MHz)

	50 Ω   Ing		A	C SE	VSE:INT					
		out: RF PN	10: >30k 😱	Trig: Free		Avg Type	ALIGNAUTO :: Log-Pwr	TRAC	M Mar 20, 2009 E 1 2 3 4 5 6 E WWWWWW	Trigger
	Ref 0.00 dE	IFG	iain:Low	Atten: 10	dB			Mkr1 4.	500 ms 30 dBm	Free Run
-10.0			6						*	Video
-20.0										Line
40.0										External 1
70.0										External 2
	Halandard Hala	WARTO MATIN	antarradite disease	yper White	hala an	<b>u</b> uthuruthallau	ananalay	hter to for the state of the st	udlywww.hd	RF Burst (Wideband)
Center 923.0 Res BW 100		Hz	#VBW	1.0 MHz			Sweep 1	S 00.0 ms (1	pan 0 Hz 1001 pts)	<b>Mor</b> 1 of

Time on of 100ms= 4.500msec Duty Cycle= 4.5 / 100msec= 0.045 Duty Cycle correction factor= 20 LOG 0.045 = -26.936 dB

Remark: If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.

# 6. EMI Reduction Method During Compliance Testing

No modification was made during testing.