



Report Number	MLT0707CS03001
Applicant	Skytech II, Inc.
Product	Receiver
Sample Received Date	2007/07/20

Report Prepared By	Jesse Tien			
Signature	Jesse Fien			
Date Prepared	2007/07/23 \sim 2007/08/28			

Report Authorized By	Roger Chen
Signature	Typer Ch
Date Authorized	2007/09/07

Test By

Max Light Technology Co., Ltd. Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan., R.O.C. Office : Tel: 886-2-2363-2447 Fax: 886-2-2363-2597 Lab. : Tel: 886-2-2663-3486 Fax: 886-2-2663-3582

It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of our laboratory.

Page: 2/11



Table of Contents :

I. General	_5.
II. Conducted Emissions Requirements	_7.
III. Radiated Emissions Requirements	_8.
Appendix I (EUT Test Setup)	_11.





CERTIFICATION

We here by verify that :

The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003. All test were conducted by MLT (Max Light Technology Co., Ltd) Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan, R.O.C Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with radiated and conducted emission limit of ICES-003: 2004.

Applicant Name	Skytech II, Inc.				
Applicant Address	9230 Conservation Way,Ft. Wayne,IN 46809,U.S.A.				
Manufacturer Name	FEGO Precision Industrial Co.,Ltd				
Manufaaturar Addraca	947 LIN SEN RD., WU-FENG SHIANG TAICHUNG HSIEN				
Manufacturer Address	R.O.C.				

Equipment	Receiver
Model No	RCAF-1030 RX / RCAF-1030TH RX
IC	2439A-1030THRX

Report Prepared By	Jesse Tien			
Signature	Jesse Tim			

Report Authorized By	Roger Chen				
Signature	Tyou Ch				



I. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of Skytech II, Inc. In support of a Class B Digital Device certification in accordance with ICES-003: 2004 of the Commission's and Regulations.

1.2 Customer Details

Applicant Name	Skytech II, Inc.				
Applicant Address	9230 Conservation Way,Ft. Wayne,IN 46809,U.S.A.				
Manufacturer Name	FEGO Precision Industrial Co., Ltd.				
Manufaaturar Addraaa	947 LIN SEN RD., WU-FENG SHIANG TAICHUNG HSIEN				
Manufacturer Address	R.O.C.				

1.3 Technical data of EUT

Equipment	Receiver
Model No	RCAF-1030 RX / RCAF-1030TH RX
IC	2439A-1030THRX
Power Type	Powered by 6V Battery (AA Size 1.5V X 4).

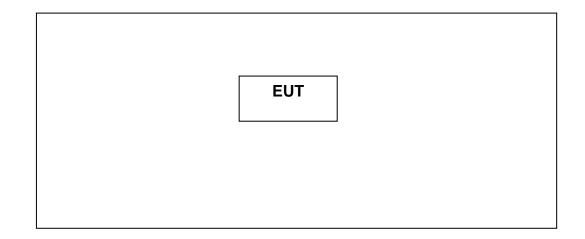
1.4 Description of Support Equipment

The EUT itself forms a system. No support equipment is required for its normal operation.

Page: 5/11



1.5 Configuration of System Under Test



1.6 Test Procedure

All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4: 2003 "Measurement of Intentional Radiators."

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated.



II. Conducted Emissions Requirements

The EUT operates solely by the battery. According to the rule, the EUT exempt to the power line conducted test.





III. Radiated Emissions Requirements

3.1 General & Setup:

Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the open-field tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT. Final radiation measurements were made on a 3-meter, open-field test site. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 8591EM Spectrum Analyzer, EMCO Biconilog Antenna (Model 3142C) for 30-1000MHz. At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization. Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120 KHz, and the analyzer was operated in the quasi-peak detection mode. The highest emission amplitudes relative to the appropriate limit were measured and recorded in paragraph 3.3.

ltem	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	HP	Spectrum Analyzer	73412A00110	8591EM	2007/03/28	2008/03/28
2.	HP	Pre Amplifier	2944A08954	8447D	2007/03/28	2008/03/28
3.	HP	Pre Amplifier	3113A05475	8447F	2007/03/28	2008/03/28
4.	EMCO	Biconilog Antenna	00044568	3142C	2007/07/27	2008/07/27
5.	Agilent	Spectrum Analyzer	US44300422	E4446A	2007/04/23	2008/04/23
6.	HP	Pre Amplifier	3008A01463	8449B	2007/03/22	2008/03/22
7.	EMCO	Horn Antenna	6492	3115	2007/06/21	2008/06/21
8.	EMCO	Biconilog Antenna	00059739	3142C	2006/11/01	2007/11/01

3.2 Test Equipment List:



3.3 Measurement Data Of Radiated Emissions:

3.3.1 Open Field Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Radiated Emissions (HORIZONTAL)						
Frequency (MHz)			Limits(Class B) (dBuV/m)	Margin (dB)		
40.26	26.81	2	280	40	-13.19	
47.82	28.81	2.5	130	40	-11.19	
55.11	28.70	1.5	300	40	-11.30	
71.85	29.14	1.5	210	40	-10.86	
132.60	28.10	1	270	43.5	-15.40	
163.65	28.34	1.5	220	43.5	-15.16	
309.10	35.29	1	240	46	-10.71	
482.00	38.57	1	260	46	-7.43	
519.10	39.02	1.5	110	46	-6.98	
645.10	40.56	1	350	46	-5.44	
874.70	38.90	1	160	46	-7.10	

Test Mode : Standby

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 3 Meter (30-1000MHz)

3. Height of table for EUT placed: 0.8 Meter.

4.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss + Antenna factor (Auto calculate in spectrum analyzer)

Page: 10/11



3.3.2 Open Field Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Radiated Emissions (VERTICAL)					
Frequency	Amplitude	Ant.	Table	Limits(Class B)	Margin
(MHz)	(dBuV/m)	(m)	(Degree)	(dBuV/m)	(dB)
30.00	34.13	1	180	40	-5.87
40.26	34.51	1	200	40	-5.49
49.71	28.68	1	300	40	-11.32
55.11	28.99	1	140	40	-11.01
73.47	28.39	1	280	40	-11.61
78.87	29.73	1	310	40	-10.27
146.91	28.79	2	250	43.5	-14.71
513.50	37.78	1.5	290	46	-8.22
641.60	39.77	1.5	130	46	-6.23
778.80	38.26	1	190	46	-7.74
925.10	38.48	1	270	46	-7.52

Test Mode : Standby

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 3 Meter (30-1000MHz)

3.Height of table for EUT placed: 0.8 Meter.

4.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss + Antenna factor (Auto calculate in spectrum analyzer)



Appendix I- EUT Test SETUP

MEASUREMENT OF RADIATED EMISSION

