



STC Test Report

Date : 2007-08-14

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No. : HM159608

Applicant (STD003):

ShenZhen TWF Hobby Co., Ltd.
NO. 418 B Building Light Industrial Products City,
Liyuan Road, Luohu, ShenZhen, China

Manufacturer:

ShenZhen TWF Hobby Co., Ltd.
NO. 418 B Building Light Industrial Products City,
Liyuan Road, Luohu, ShenZhen, China

Description of Samples:

Product: Transmitter + Receiver
Brand Name: ESKY
Model Number: EK2-0406A/EK2-0420A
FCC ID: VK2-ESKYSZ09

Date Samples Received: 2007-07-19

Date Tested: 2007-07-28

Investigation Requested:

Perform ElectroMagnetic Interference measurement in
accordance with FCC 47CFR [Codes of Federal Regulations]
Part 95: 2006 and TIA 603 for FCC Certification.

Conclusions:

The submitted product COMPLIED with the requirements of
Federal Communications Commission [FCC] Rules and
Regulations Part 95.

Fundamental frequencies:

72.130MHz, 72.170MHz, 72.210MHz, 72.450MHz, 72.490MHz,
72.530MHz, 72.790MHz, 72.830MHz, 72.870MHz.

(Please refer Section 2.2 of this report which indicates which
Fundamental Carrier Frequency was actually tested.)

Remarks:

LEE Kam Chuen,
ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

1.2 Applicant Details

Applicant

ShenZhen TWF Hobby Co., Ltd.
NO. 418 B Building Light Industrial Products City,
Liyuan Road, Luohu, ShenZhen, China

Manufacturer

ShenZhen TWF Hobby Co., Ltd.
NO. 418 B Building Light Industrial Products City,
Liyuan Road, Luohu, ShenZhen, China

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1.3 Equipment Under Test [EUT]

Description of Sample

Model Name:	Transmitter + Receiver
Manufacturer:	ShenZhen TWF Hobby Co., Ltd.
Brand Name:	ESKY
Model Number:	EK2-0406A/EK2-0420A
Input Voltage:	12Vd.c ("AA" size battery x 8)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a ShenZhen TWF Hobby Co., Ltd., Transmitter + Receiver. The transmitter is a 6 button transmitter. The EUT continues to transmit while button is being pressed, Modulation by IC, and type is pulse modulation.

1.4 Date of Order

2007-07-19

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2007-07-28

1.7 Country of Origin

China

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2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 95: 2005 and TIA 603 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary					
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result	
				Pass	Failed
Field Strength of Fundamental Emissions	FCC 47CFR 95.639	TIA 603	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Field Strength of Spurious Emissions	FCC 47CFR 95.635	TIA 603	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emission Bandwidth	FCC 47CFR 95.633	TIA 603	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency Stability	FCC 47CFR 95.623	TIA 603	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

Remark:

Since the same PCBs, Circuit design only use different type of crystals,
Only 72.130MHz & 72.870MHz were completely tested in the whole report.

This transmitter is designed for use only in the Radio Control Service. The operating frequency is factory defined and will not include a plug-in crystal with external access to the user. User may not modify the operating frequency by plug-in/change crystal.

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3.0 Test Results

3.1 Field Strength of Fundamental Emissions

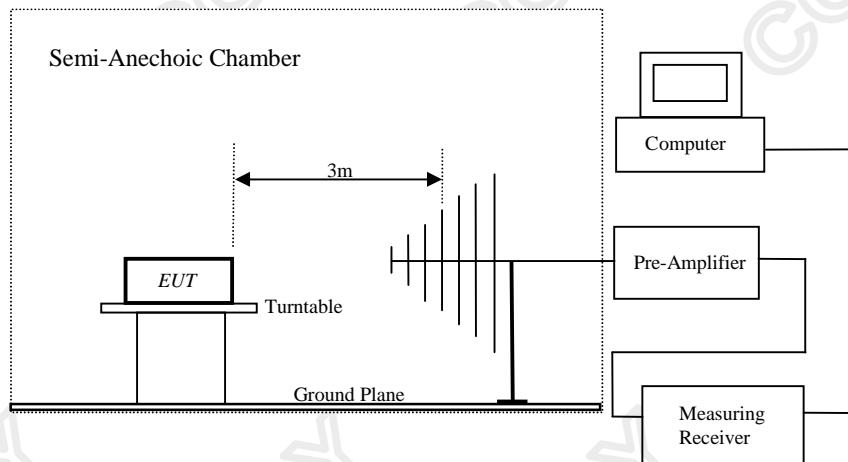
Test Requirement: FCC 47CFR 95.639
Test Method: TIA 603
Test Date: 2007-07-28
Mode of Operation: Tx mode

Test Method:

- 1) The EUT was placed 0.8m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, EUT output power was maximized by: having the EUT continuously working, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations.
- 2) The EUT is replaced by a substitution antenna (positioned at the EUT's phase or volume center), which is connected to a signal generator. The signal is again 'peaked' and the signal generator output adjusted until the level, noted in step one, is again measured on the receiving device. This signal generator output level is shown in Test Results of the following page.

*: Semi-anechoic chamber located on the G/F of HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

Test Setup:



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Test Result:

Ambient Temperature: 20°C Atmospheric Pressure: 102kPa Relative Humidity: 40%

The highest field strength measured at the fundamental frequency at a distance of 3 meters.

Fundamental Frequency	Field Strength of Fundamental Emission at 3m	Transmitter output power noted using antenna substitution method
[MHz]	[dB μ V/m]	[mW]
72.130	107.8	5.72

The highest field strength measured at the fundamental frequency at a distance of 3 meters.

Fundamental Frequency	Field Strength of Fundamental Emission at 3m	Transmitter output power noted using antenna substitution method
[MHz]	[dB μ V/m]	[mW]
72.870	109.4	8.26

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3.2 Field Strength of Spurious Emissions

Test Requirement: FCC 47CFR 95.635
Test Method: TIA 603
Measurement Distance: 3m (Semi-Anechoic Chamber)
Frequency range: 30MHz – 1GHz for transmitting mode
Test Date: 2007-07-28
Mode of Operation: Receive antenna scan height 1-4m, polarization Vertical / Horizontal
Tuned Frequency: 72.130MHz & 72.870MHz

Test Requirement:

The power of each unwanted emission should be less than the transmitter power (TP) by at least $56+10\log(TP)$ on any frequency removed from the center of the authorized bandwidth by more than 250%.

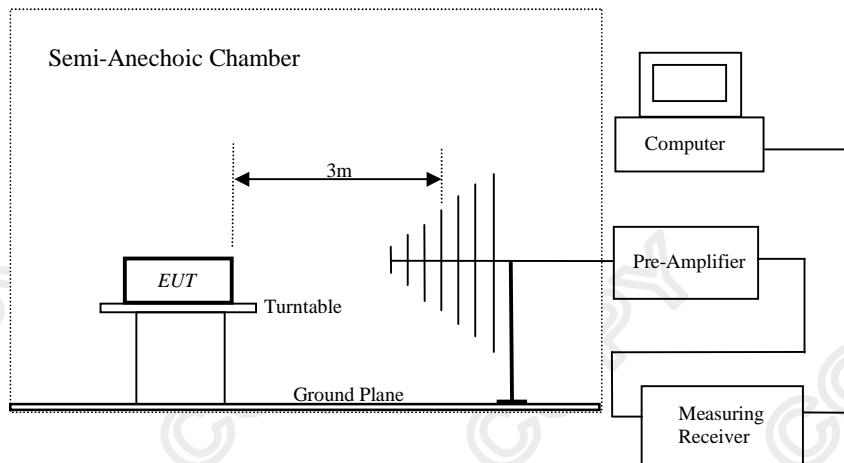
Below 30MHz Test Procedure:

For testing performed with the loop antenna, testing was performed in accordance to TIA 603. The center of the loop was positioned 1m above the ground and positioned with its plane vertical at the specie distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

Above 30MHz Test Procedure:

The procedure used was TIA603. The receiver was scanned from 30MHz to 1GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the normal rated supply voltage. The worst case emissions were reported.

Test Setup:



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Test Result:

Ambient Temperature: 20°C Atmospheric Pressure: 102kPa Relative Humidity: 40%

Field Strength of Spurious Emissions

Nominal Transmit Frequency: **72.130MHz**

Calculation of FCC Limit: $FS - [56 + 10\log(TP)]$:

where, TP = measured transmitter power (W); FS = Fundamental field strength (dB μ V/m)

Limit: $107.8dB\mu V/m - [56 + 10\log(5.72mW/1000)] = 74.2dB\mu V/m$

Measured Emissions

Frequency (MHz)	Spurious Emission of EUT dB μ V/m
57.7	50.6
86.5	47.9
144.2	54.2
216.4	47.7
504.9	51.9

Calculated measurement uncertainty: 30MHz to 1GHz: 5.2dB

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Test Result:

Ambient Temperature: 20°C Atmospheric Pressure: 102kPa Relative Humidity: 40%

Field Strength of Spurious Emissions

Nominal Transmit Frequency: **72.870MHz**

Calculation of FCC Limit: FS-[56 + 10Log (TP)] :

where, TP = measured transmitter power (W); FS = Fundamental field strength (dB μ V/m)

Limit: $109.4\text{dB}\mu\text{V/m} - [56 + 10\text{Log} (8.26\text{mW}/1000)] = 74.2\text{dB}\mu\text{V/m}$

Measured Emissions

Frequency (MHz)	Spurious Emission of EUT dB μ V/m
52.3	48.6
87.4	42.3
145.7	51.1
218.6	44.8
510.0	51.5

Calculated measurement uncertainty: 30MHz to 1GHz: 5.2dB

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3.3 Emission Bandwidth

Test Requirement:	FCC 47CFR 95.633
Test Method:	TIA 603
Test Date:	2007-07-26
Mode of Operation:	Tx Mode

Test Requirement:

An R/C transmitter is allowed to transmit any appropriate non-voice emission, which meets the emission limitations for an R/C transmitter. The authorized bandwidth for any emission type transmitted by an R/C transmitter is 8kHz.

The power of each unwanted emission shall be less than the transmitter power (TP) by:

- (1) At least 25dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
- (2) At least 45dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 125% of the authorized bandwidth.
- (3) At least 55dB on any frequency removed from the center of the authorized bandwidth by more than 125% up to and including 250% of the authorized bandwidth.
- (4) At least $56+10\log(T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

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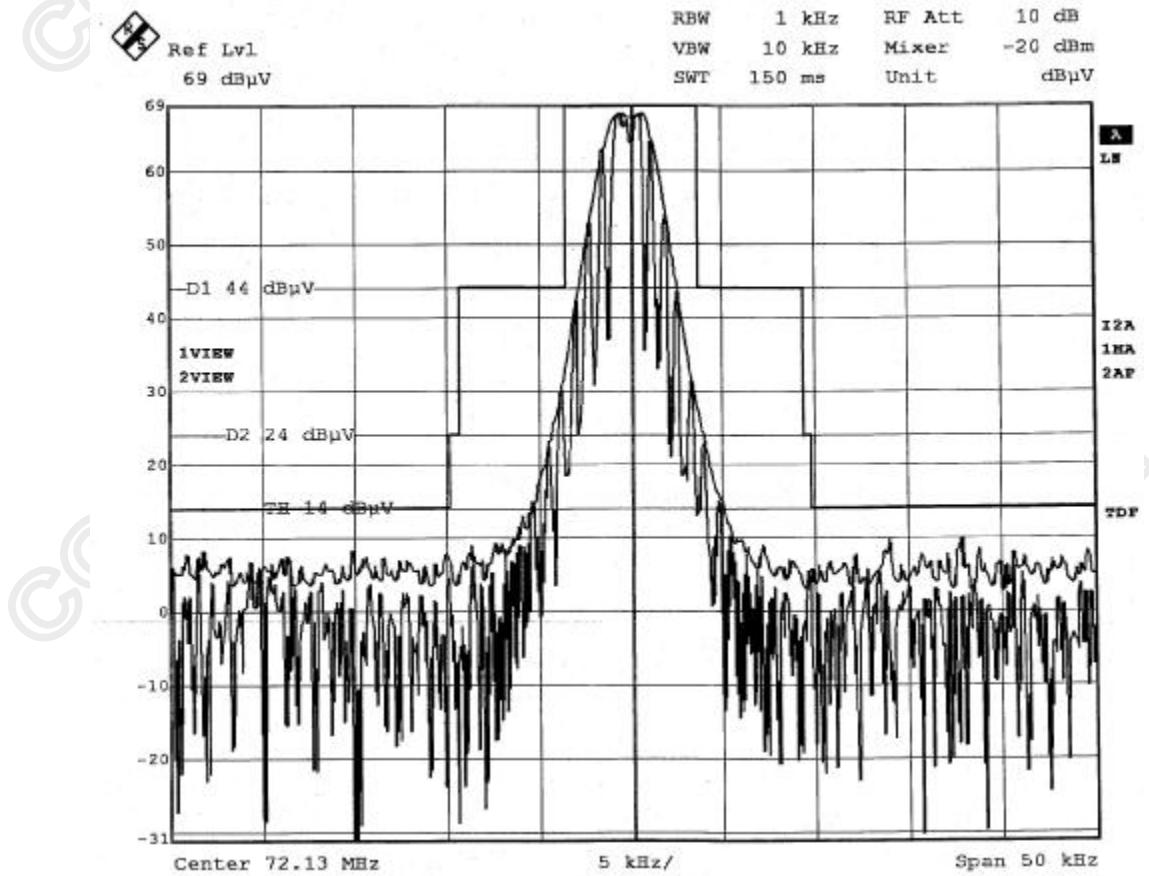
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Fundamental Frequency [MHz]	Bandwidth [KHz]
72.130	7.63

Bandwidth of Fundamental Emission



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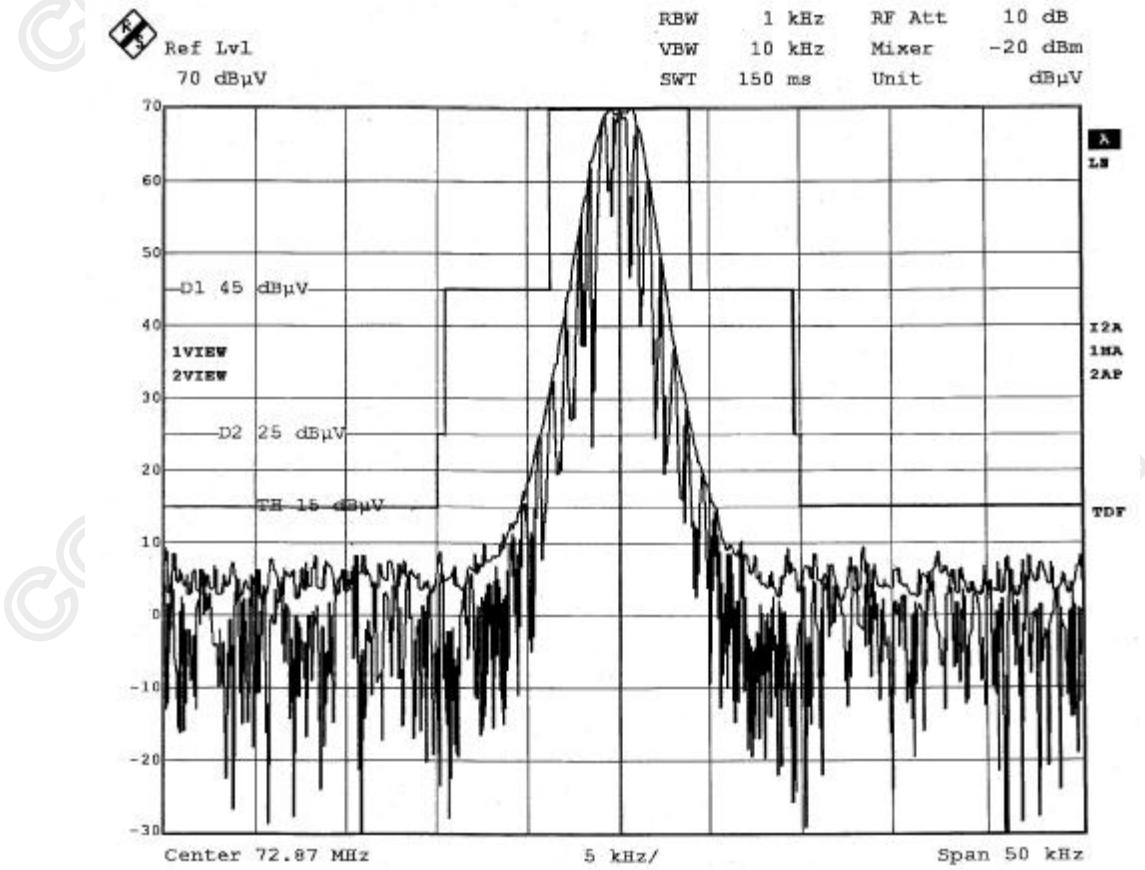
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Fundamental Frequency [MHz]	Bandwidth [KHz]
72.870	7.75

Bandwidth of Fundamental Emission



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3.4 Frequency Stability

Test Requirement: FCC 47CFR 95.623
Test Method: TIA 603
Test Date: 2007-07-26
Mode of Operation: Tx Mode
Test Requirement: All other R/C transmitters that transmit in the 72-76MHz frequency band must be maintained within a frequency tolerance of 0.002% (20ppm)

Test Method:

Frequency measurements were made as follows:

- (a) at 10 degree intervals of temperatures between -20°C and +55°C at the manufacturer's rated supply voltage, and
- (b) at +20°C temperature and $\pm 15\%$ supply voltage variations.

Note, for handheld equipment that is only capable of operating from internal batteries, reduce the primary supply voltage to the battery operating end point. The manufacturer should specify the battery operating endpoint voltage of the equipment.

Test Result:

Frequency Stability Under Low Voltage Conditions

Nominal transmit frequency: 72.130MHz

TEST CONDITIONS		Measured frequency (MHz)	Frequency drift (kHz)	Frequency drift (ppm)	Frequency error Limit (kHz)
T_{nom} : 20°C					
U_{nom} :	12.0V	72.13030	-0.30000	-4.15914	1.443
	11.0V	72.13030	-0.30000	-4.15914	1.443
	10.0V	72.12975	0.25000	3.46598	1.443
	9.0V	72.13073	-0.73000	-10.12051	1.443
$U_{cut-off}$:	6.0V	72.13073	-0.73000	-10.12051	1.443

Nominal transmit frequency: 72.870MHz

TEST CONDITIONS		Measured frequency (MHz)	Frequency drift (kHz)	Frequency drift (ppm)	Frequency error Limit (kHz)
T_{nom} : 20°C					
U_{nom} :	12.0V	72.87006	-0.06000	-0.82338	0.450
	11.0V	72.87006	-0.06000	-0.82338	1.450
	10.0V	72.87006	-0.06000	-0.82338	1.450
	9.0V	72.86993	0.07000	0.96062	1.450
$U_{cut-off}$:	6.0V	72.86993	0.07000	0.96062	1.450

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Frequency Stability Under Extreme Temperature

TEST CONDITIONS		Nominal Transmit Frequency: 72.130MHz			
		3dB point Frequency (MHz)	Frequency Drift (kHz)	Frequency Drift (ppm)	Frequency error Limit (kHz)
T _{max} :55°C	U _{nom} : 12.0V	72.13084	0.84	11.65	1.450
T:50°C	U _{nom} : 12.0V	72.13063	0.63	8.73	1.450
T:40°C	U _{nom} : 12.0V	72.13065	0.65	9.01	1.450
T:30°C	U _{nom} : 12.0V	72.13045	0.45	6.24	1.450
T _{nom} :20°C	U _{nom} : 12.0V	72.13030	0.30	4.16	1.450
T:10°C	U _{nom} : 12.0V	72.13035	0.35	4.85	1.450
T:0°C	U _{nom} : 12.0V	72.13036	0.36	4.99	1.450
T:-10°C	U _{nom} : 12.0V	72.13060	0.60	8.32	1.450
T:-20°C	U _{nom} : 12.0V	72.13052	0.52	7.21	1.450
T _{min} :-30°C	U _{nom} : 12.0V	72.13063	0.63	8.73	1.450
Maximum Frequency error/drift			0.84	11.65	1.450

Frequency Stability Under Extreme Temperature

TEST CONDITIONS		Nominal Transmit Frequency: 72.870MHz			
		3dB point Frequency (MHz)	Frequency Drift (kHz)	Frequency Drift (ppm)	Frequency error Limit (kHz)
T _{max} :55°C	U _{nom} : 12.0V	72.86976	-0.24	-3.29	1.450
T:50°C	U _{nom} : 12.0V	72.86981	-0.19	-2.61	1.450
T:40°C	U _{nom} : 12.0V	72.86976	-0.24	-3.29	1.450
T:30°C	U _{nom} : 12.0V	72.86977	-0.23	-3.16	1.450
T _{nom} :20°C	U _{nom} : 12.0V	72.87006	0.06	0.82	1.450
T:10°C	U _{nom} : 12.0V	72.87032	0.32	4.39	1.450
T:0°C	U _{nom} : 12.0V	72.87015	0.15	2.06	1.450
T:-10°C	U _{nom} : 12.0V	72.87044	0.44	6.04	1.450
T:-20°C	U _{nom} : 12.0V	72.87050	0.50	6.86	1.450
T _{min} :-30°C	U _{nom} : 12.0V	72.87052	0.52	7.14	1.450
Maximum Frequency error/drift			0.52	7.14	1.450

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	2006/12/29	2007/12/29
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	2006/12/29	2007/12/29
EM009	QUASipeak ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	2006/12/29	2007/12/29
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	2006/12/29	2007/12/29
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	2006/12/29	2007/12/29
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	2006/12/29	2007/12/29
EM020	HORN ANTENNA	ETS-LINGGREN	3115	4032	2006/07/11	2008/07/11
EM022	LOOP ANTENNA	ETS-LINGGREN	6502	1189-2424	2006/07/26	2008/07/26
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB 7	100072	22007/06/08	2008/06/08
EM215	MULTIDEVICE CONTROLLER	ETS-LINGGREN	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	ETS-LINGGREN	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	ETS-LINGGREN	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINGGREN	FACT-3	--	2007/05/02	2008/05/02
EM219	BICONILOG ANTENNA	ETS-LINGGREN	3142C	00029071	2006/02/01	2008/02/01
EM229	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB 40	100248	2007/07/11	2008/07/11
EM243	TEMP & HUMIDITY CHAMBER	KOMEG	K-MHG-120R	HKC050016	2005/05/22	2008/05/22

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB 7	100072	22007/06/08	2008/06/08
EM197	LISN	ETS-LINGGREN	4825/3	1193	2006/09/25	2007/09/25
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2006/01/12	2008/01/12

Remarks:-

CM Corrective Maintenance
 N/A Not Applicable or Not Available
 TBD To Be Determined

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: www.hkstc.org E-mail: hkstc@hkstc.org

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Appendix B

Photographs of EUT

Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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Photographs of EUT

Measurement of Radiated Emission Test Set Up



******* End of Test Report *******

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