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No.: HM157171

Applicant: CHENGHAI HENGLONG PLASTIC TOYS CO., LTD.

NINGCHUAN ROAD, CHENGHAI DISTRICT,

SHANTOU CITY

**Description of Samples:** R/C OIL CAR, ELECTRICAL CAR Model name:

(TRANSMITTER, RECEIVER,

ELECTRONIC ACTIYATOR, DRIVE)

Model no.: 3851-1 Brand name: N/A

FCC ID: **UI8HENGLONGEOC** 

2006-08-03 **Date Samples Received:** 

**Date Tested:** 2006-08-08

**Investigation Requested:** FCC Part 15 Subpart C

Conclusions: The submitted product **COMPLIED** with the requirements of

> Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on

Section 2.2 in this Test Report.

Remarks: For additional models details, see page 5.

> TSANG Chi Ho, Steven, EMD For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.



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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

Telephone: 852 2666 1888 Fax: 852 2664 4353

# 1.2 Applicant Details

#### **Applicant**

CHENGHAI HENGLONG PLASTIC TOYS CO., LTD. NINGCHUAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY

#### Manufacturer

CHENGHAI HENGLONG PLASTIC TOYS CO., LTD. NINGCHUAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY



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# 1.3 Equipment Under Test [EUT] Description of Sample

Model Name: R/C OIL CAR, ELECTRICAL CAR (TRANSMITTER,

RECEIVER, ELECTRONIC ACTIYATOR, DRIVE)

Manufacturer: CHENGHAI HENGLONG PLASTIC TOYS CO., LTD.

Brand Name: N/A Model Number: 3851-1

Additional Model Number: 3851-2, 3851-3, 3851-4, 3850-1, 3850-2, 3850-3, 3850-4

Rating: 12Vd.c ("AA" size battery x 8)

### 1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a CHENGHAI HENGLONG PLASTIC TOYS CO., LTD., R/C OIL CAR, ELECTRICAL CAR (TRANSMITTER, RECEIVER, ELECTRONIC ACTIYATOR, DRIVE). The transmitter is a 2 joystick transmitter. The EUT continues to transmit while joystick is being pressed, It is pulse transmitter, Modulation by IC, and type is pulse modulation.

#### 1.4 Date of Order

2006-08-03

#### 1.5 Submitted Sample(s):

1 Samples per model

# 1.6 Test Duration

2006-08-08

# 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 15 and ANSI C63.4:2003 for FCC Certification.

# 2.2 Test Standards and Results Summary Tables

EMISSION Results Summary									
Test Condition	Test Requirement	Test Method	Class /	Т	est Resu	lt			
			Severity	Pass	Failed	N/A			
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.227	ANSI C63.4:2003	N/A	$\boxtimes$					
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	$\boxtimes$					
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	N/A			$\boxtimes$			

Note: N/A - Not Applicable

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#### 3.0 Test Results

### 3.1 Emission

# 3.1.1 Radiated Emissions (30 - 1000MHz)

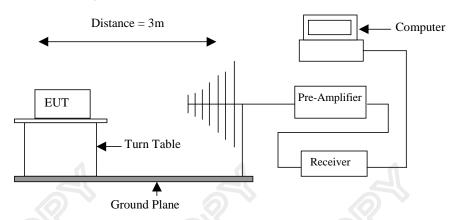
Test Requirement: FCC 47CFR 15.227
Test Method: ANSI C63.4:2003
Test Date: 2006-08-08
Mode of Operation: Tx mode

#### **Test Method:**

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

\*: On a standard radiated emission test site located at 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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# Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.227]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Fundamental Emission
	[Peak]	[Average]
[MHz]	[μV/m]	[μV/m]
26.96-27.28	100,000	10,000

### Results of (27.095MHz) Tx Mode: PASS

Field Strength of Fundamental Emissions Peak Value							
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m		Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	μV/m	μV/m	,	
27.095	43.20	9.9	53.1	451.9	100,000	Vertical	

Field Strength of Fundamental Emissions Average								
Frequency	Measured	Adjusted by	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Duty Cycle	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB	dB/m	dBµV/m	μV/m	μV/m		
27.095	42.8	-0.4	9.9	52.7	431.5	10,000	Vertical	

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

#### Remarks:





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# Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### Results of (27.095MHz) Tx Mode: PASS

	Radiated Emissions Quasi-Peak								
Frequency	Me	easured	Correction		Field		Field	Limit @3m	E-Field
' '	Lev	el @3m	Factor	s	trength	5	Strength		Polarity
MHz	d	lΒμV	dB/m	d	BµV/m		μV/m	μV/m	
54.19	<	1.0	8.9	<	9.9	<	3.1	100	Vertical
81.29	<	1.0	9.5	<	10.5	<	3.3	100	Vertical
108.38	<	1.0	10.7	<	11.7	<	3.8	150	Vertical
135.48	<	1.0	10.2	<b>'</b>	11.2	<	3.6	200	Vertical
162.57	<	1.0	11.9	<	12.9	<	4.4	200	Vertical
189.67	<	1.0	12.4	<	13.4	<	4.7	200	Vertical
216.76	<	1.0	13.2	<	14.2	<	5.1	200	Vertical
243.86	<	1.0	15.0	<	16.0	<	6.3	200	Vertical
270.95	<	1.0	16.1	<	17.1	<	7.2	200	Vertical

#### Remarks:



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# Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.227]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Fundamental Emission
	[Peak]	[Average]
[MHz]	[μV/m]	[μV/m]
26.96-27.28	100,000	10,000

# Results of (27.145MHz) Tx Mode: PASS

Field Strength of Fundamental Emissions Peak Value								
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	μV/m	μV/m			
27.145	43.40	9.9	53.3	462.4	100,000	Vertical		

Field Strength of Fundamental Emissions Average								
Frequency	Measured	Adjusted by	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Duty Cycle	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB	dB/m	dBµV/m	μV/m	μV/m		
27.145	43.0	-0.4	9.9	52.9	441.6	10,000	Vertical	

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

# Remarks:





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# Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### Results of (27.145MHz) Tx Mode: PASS

	Radiated Emissions Quasi-Peak								
Frequency	Me	asured	Correction		Field		Field	Limit @3m	E-Field
	Lev	el @3m	Factor	s	trength	S	Strength		Polarity
MHz	d	lΒμV	dB/m	d	BµV/m		μV/m	μV/m	•
54.29	<	1.0	8.9	<	9.9	<	3.1	100	Vertical
81.44	<	1.0	9.5	<	10.5	<	3.3	100	Vertical
108.58	<	1.0	10.7	<	11.7	<	3.8	150	Vertical
135.73	<	1.0	10.2	<	11.2	<	3.6	200	Vertical
162.87	<	1.0	11.9	<	12.9	<	4.4	200	Vertical
190.02	<	1.0	12.4	<	13.4	<	4.7	200	Vertical
217.16	<	1.0	13.2	<	14.2	<	5.1	200	Vertical
244.31	<	1.0	15.0	<	16.0	<	6.3	200	Vertical
271.45	<	1.0	16.1	<	17.1	<	7.2	200	Vertical

#### Remarks:



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# Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.227]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Fundamental Emission
	[Peak]	[Average]
[MHz]	[μV/m]	[μV/m]
26.96-27.28	100,000	10,000

# Results of (27.195MHz) Tx Mode: PASS

Field Strength of Fundamental Emissions Peak Value								
Frequency								
requeries	Level @3m		Strength	Strength	Limit @om	Polarity		
MHz	dΒμV	dB/m	dBµV/m	μV/m	μV/m	· · · ·		
27.195	42.80	9.9	52.7	431.5	100,000	Vertical		

Field Strength of Fundamental Emissions Average									
Frequency	Measured	Adjusted by	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Duty Cycle	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB	dB/m	dBµV/m	μV/m	μV/m			
27.195	42.4	-0.4	9.9	52.3	412.1	10,000	Vertical		

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

#### Remarks:





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# Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### Results of (27.195MHz) Tx Mode: PASS

	Radiated Emissions Quasi-Peak							
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m μV/m		μV/m	•		
54.39	< 1.0	8.9	< 9.9	< 3.1	100	Vertical		
81.59	< 1.0	9.5	< 10.5	< 3.3	100	Vertical		
108.78	< 1.0	10.7	< 11.7	< 3.8	150	Vertical		
135.98	< 1.0	10.2	< 11.2	< 3.6	200	Vertical		
163.17	< 1.0	11.9	< 12.9	< 4.4	200	Vertical		
190.37	< 1.0	12.4	< 13.4	< 4.7	200	Vertical		
217.56	< 1.0	13.2	< 14.2	< 5.1	200	Vertical		
244.76	< 1.0	15.0	< 16.0	< 6.3	200	Vertical		
271.95	< 1.0	16.1	< 17.1	< 7.2	200	Vertical		

#### Remarks:



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# Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.227]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Fundamental Emission
	[Peak]	[Average]
[MHz]	[μV/m]	[μV/m]
26.96-27.28	100,000	10,000

### Results of (27.225MHz) Tx Mode: PASS

Field Strength of Fundamental Emissions Peak Value								
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	μV/m	μV/m			
27.225	43.20	9.9	53.1	451.9	100,000	Vertical		

Field Strength of Fundamental Emissions Average									
Frequency	Measured	Adjusted by	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Duty Cycle	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB	dB/m	dBµV/m	μV/m	μV/m			
27.225	42.8	-0.4	9.9	52.7	431.5	10,000	Vertical		

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

# Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation. Calculated measurement uncertainty: 30MHz to 1GHz ±4.1dB





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# Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Results of (27.225MHz) Tx Mode: PASS

	Radiated Emissions Quasi-Peak								
Frequency									E-Field
	Lev	el @3m	Factor	s	trength	5	Strength		Polarity
MHz	d	lΒμV	dB/m	dBµV/m			μV/m	μV/m	•
54.45	<	1.0	8.9	<	9.9	<	3.1	100	Vertical
81.68	<	1.0	9.5	<	10.5	<	3.3	100	Vertical
108.90	<	1.0	10.7	<	11.7	<	3.8	150	Vertical
136.13	<	1.0	10.2	<b>'</b>	11.2	<	3.6	200	Vertical
163.35	<	1.0	11.9	<	12.9	<	4.4	200	Vertical
190.58	<	1.0	12.4	<	13.4	<	4.7	200	Vertical
217.80	<	1.0	13.2	<	14.2	<	5.1	200	Vertical
245.03	<	1.0	15.0	<	16.0	<	6.3	200	Vertical
272.25	<	1.0	16.1	<	17.1	<	7.2	200	Vertical

#### Remarks:



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# 3.1.1 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
Test Method: FCC 47CFR 15.207
ANSI C63.4:2003

Test Date: N/A Mode of Operation: N/A

Results: N/A

The EUT is operated by a single source of internal battery power [located in the battery compartment], therefore power line conducted emission was deemed unnecessary.



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# 3.2 20dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.227

Test Method: ANSI C63.4:2003 (Section 13.1.7)

Test Date: 2006-08-08 Mode of Operation: On mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.



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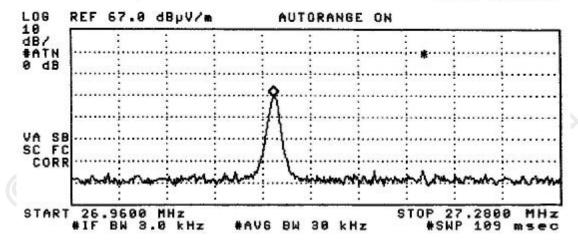
### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [KHz]	FCC Limits [MHz]
27.095	14.6	within 26.96-27.28

# 20dB Bandwidth of Fundamental Emission

09:11:24 JAN 16, 1995 23:49:37 NOV 12, 1997

MARKER 27.0952 MHz 36.03 dBpV/m ACTV DET: PEAK MEAS DET: PEAK QP AVG MKR 27.0952 MHz 36.03 dBpV/m





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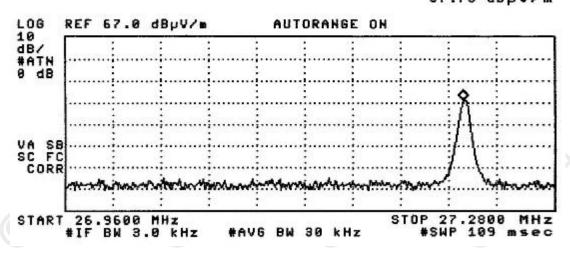
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Frequency Range	20dB Bandwidth	FCC Limits
[MHz]	[KHz]	[MHz]
27.225	14.3	within 26.96-27.28

# 20dB Bandwidth of Fundamental Emission

Ø 09:11:24 JAN 16, 1995 23:49:37 NOV 12, 1997

MARKER 27.2256 MHz 37.73 dBpV/m ACTV DET: PEAK MEAS DET: PEAK QP AVG MKR 27.2256 MHz 37.73 dBpV/m





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# Appendix A

# **List of Measurement Equipment**

#### **Radiated Emission**

EQP NO. DESCRIPTION		MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL		
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	2005/06/27		
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	2005/06/27		
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	2005/06/27		
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	2005/06/27		
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	2005/06/27		
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	2005/06/27		
EM020	HORN ANTENNA	ETS-Linggren	3115	4032	2003/07/30		
EM022	LOOP ANTENNA	ETS-Linggren	6502	1189-2424	2003/09/19		
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A		
EM083	OPEN AREA TEST SITE	HKSTC	N/A	N/A	2005/12/08		
EM131	EMC ANALYZER	HEWLETT PACKARD	8595EM	3710A00155	2006/03/29		
EM145	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCS 30	830245/021	2004/10/04		
EM195	ANTENNA POSITIONING MAST	ETS-Linggren	2075	2368	N/A		
EM196	MULTI-DEVICE CONTROLLER	ETS-Linggren	2090	1662	N/A		
EM215	MULTIDEVICE CONTROLER	ETS-Linggren	2090	00024676	N/A		
EM216	MINI MAST SYSTEM	ETS-Linggren	2075	00026842	N/A		
EM217	ELECTRIC POWERED TURNTABLE	ETS-Linggren	2088	00029144	N/A		
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	<b>-</b>	2006/05/02		
EM219	BICONILOG ANTENNA	ETS-Linggren	3142C	00029071	2006/02/01		
EM229	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB40	100248	2005/02/04		

# **Line Conducted**

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	2006/01/12
EM119	LISN	ROHDE & SCHWARZ	ESH3-Z5	0831.5518.52	2004/10/14
EM127	ISOLATION TRANSFORMER 220 TO 300V	WING SUN	N/A	N/A	СМ
EM233	PULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	100314	2006/01/09
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2006/03/17
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2006/01/12
EM197	LISN	ETS-Linggren	4825/2	1193	2005/06/27
EM213	DIGITAL POWER METER	VICNOBL	VIP120	00277	2004/09/14

#### Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available

TBD To Be Determined



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# Appendix B

# **Duty Cycle Correction During 100msec**

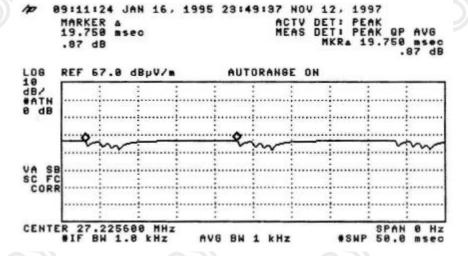
Each function key sends a different series of characters, but each packet period (19.75msec) never exceeds a series of 1 long (14.75msec) and 3 short (1.375msec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered 14.75msec + (3x1.375msec) per 19.75msec=95.6% duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

#### Remarks:

Duty Cycle Correction = 20Log(0.956) =-0.4dB

The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.

# Figure A [Pulse Train]

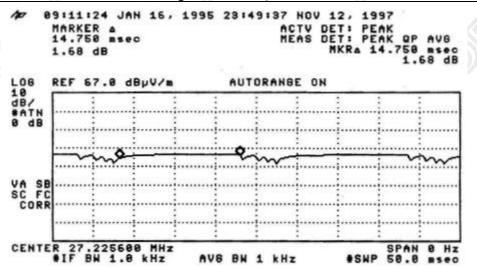




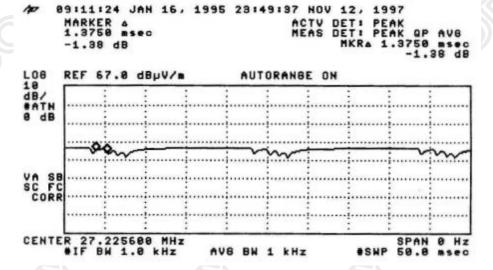
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# Figure B [Long Pulse]



# Figure C [Short Pulse]



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# Appendix C

# **Photographs of EUT**

Front View of the product



Rear View of the product



**Inner Circuit Top View** 



**Inner Circuit Bottom View** 



The Hong Kong Standards and Testing Centre Ltd.

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# **Photographs of EUT**

Measurement of Radiated Emission Test Set Up

Measurement of Radiated Emission Test Set Up

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