

APPLICANT Fisher Price, Inc. 636 Girard Avenue East Aurora, NY 14052	MANUFACTURER Wah Shing Electronics Co. Ltd. 9 th Floor, Lea Hin Industrial Building 41-43 Wong Chuk Hang Road Aberdeen, Hong Kong
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TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Para. 15.227

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: Fisher Price MODEL: 77149

TYPE: Pulse RF Modulated Remote Control

POWER REQUIREMENTS: 9 VDC via 9 VDC Battery

FREQUENCY OF OPERATION: 27.145 MHz

TESTS PERFORMED

Para. 15.227(a), Radiated Emissions, Fundamental

Para. 15.209 Radiated Emissions, Spurious Case

Para. 15.227(b), Occupied Bandwidth

Duty Cycle Measurement

REPORT OF MEASUREMENTS

Applicant: Fisher Price, Inc.
Device: Pulse RF Modulated Remote Control
FCC ID: CCT77149T
Power Requirements: 9 VDC via 9 VDC Battery
Applicable Rule Section: Part 15, Subpart C, Section 15.227

TEST RESULTS

- 15.227 (a) - The field strength of any emission within the band of 26.96 MHz to 27.28 MHz did not exceed 10,000 $\mu\text{V/M}$ at 3 meters, average. The provisions of section 15.35 for limiting peak emissions was applied.
- 15.227 (b) - The field strength of any emissions outside the band did not exceed the general radiated emissions limits of section 15.209. All signals within 20dB of the specified limit are reported herein.

DUTY CYCLE DETERMINATION

The spectrum analyzer was set to a 0 Hz span with a sweep time of 100 mSec at the fundamental transmitter frequency. The worst case duty cycle during any 100 mSec period was then measured. The information below is a calculation of duty cycle based on the measured values obtained:

Pulse Width= 3.15 mSec (Narrow), 4.35 mSec (Wide)

Pulses in 100 mSec= 9 (Narrow), 10 (Wide)

Duty Cycle = $(9 \times 3.15 \text{ mSec}) + (10 \times 4.35 \text{ mSec}) = 71.85 \text{ mSec} = 71.85\%$

Test Report Number R-8535-1
FCC ID: CCT77149T

Duty Cycle Correction Factor= $20 \log (0.7185) = -2.9 \text{ dB}$

Report of Measurements

Occupied Bandwidth

Please refer to separate electronic file named Occbw.pdf

Test Report Number R-8535-1
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Report of Measurements

Duty Cycle Measurement

Please refer to separate electronic file named Duty Cycle.pdf

Report of Measurements

Radiated Emissions Data, Paras. 15.227 & 15.209

Please refer to separate electronic files named RE fund.pdf and RE spur.pdf

EQUIPMENT LISTS

FCC 15.227 Radiated Emissions, Fundamental, 27.145MHz

EN	Type	Manufacturer	Description.	Model No.	Cal Date	Due Date
012	Loop Antenna, Active	EMCO	9 kHz - 30 MHz	6502	10/04/1999	10/04/2000
067	Open Area Test Site	Retlif	3 Meter	RNY	10/15/1997	10/15/2000
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	03/20/2000	09/20/2000
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	03/20/2000	09/20/2000

FCC15/C Radiated Emissions Spurious, 27MHz to 1GHz

EN	Type	Manufacturer	Description.	Model No.	Cal Date	Due Date
012	Loop Antenna, Active	EMCO	9 kHz - 30 MHz	6502	10/04/1999	10/04/2000
067	Open Area Test Site	Retlif	3 Meter	RNY	10/15/1997	10/15/2000
127B	Biconical Antenna	Electro-Metrics	20 MHz - 200 MHz	BIA-25	09/23/1999	09/23/2000
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	06/22/1999	06/22/2000
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	03/20/2000	09/20/2000
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	03/08/2000	03/08/2001
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	03/20/2000	09/20/2000
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	06/22/1999	06/22/2000
443	Log Periodic Antenna	Electro-Metrics	200 MHz - 1000 MHz	LPA-25	01/17/2000	01/17/2001