FCC-TEST REPORT

REPORT NO.: 37356/4/400F

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FCC listed testlab acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of ANSI C63.4 - 1992

Product: Remote Control Car Hand Set

Product Class: Low Power Communication

Device Transmitter

Model: PWYJT49TX60000

Brand Name : JADA

Applicant : JADA TOYS COMPANY LIMITED

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LABORATORY - REPORT

APPLICANT: JADA TOYS COMPANY LIMITED

ADDRESS: Unit 1-2 & 4-6, 9th Floor, Energy Plaza,

92 Granville Road, Tsimshatsui East, Kowloon, HONG KONG

DATE OF SAMPLE RECEIVED: 2004-03-09

DATE OF TESTING: 2004-03-29

DESCRIPTION OF SAMPLE:

Product: Remote Control Car Hand Set

Product class: Low Power Communication Device Transmitter

Brand name: JADA

Model number: PWYJT49TX60000

Rating: DC 9V ('AA' Size Battery x 6)

INVESTIGATIONS Measurements to the relevant clauses of F.C.C. Rules and Regulations

REQUESTED: Part 15 Subpart C - Intentional Radiators

RESULTS: See the attached test sheets

CONCLUSIONS: From the measurement data obtained, the tested sample was considered

to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature

Remark: Purpose of those tests in this report is to provide the applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under the FCC Equipment Authorization Program. The tests themselves are not Approval Tests

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Summary of Test Results

Interference Radiation:

Test result: O.K.

Test data: See attached data sheet

Interference Voltage:

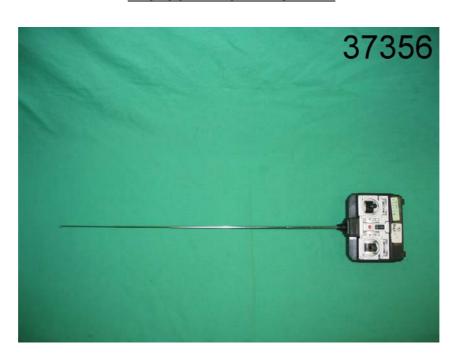
Test result: N.A. Test data: N.A.

Measurement of Emissions within Band Edges

Test result: O.K.

Test data: See attached data sheet

PHOTOGRAPH OF THE SAMPLE



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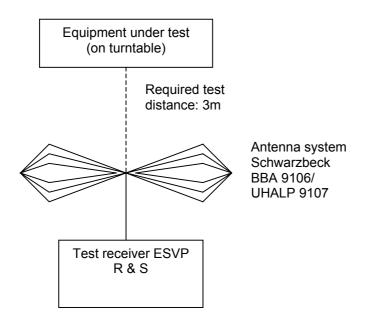
TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Remark
Test Receiver	Rohde & Schwarz	ESH 3	863497/015	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	860688/022	25MHz – 1,300 MHz
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127		2 x 10A, 50Ω, 50μH 10KHz-30MHz
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz
Antenna Mast System	Schwarzbeck	AM9104		Max. 4 meters height
Spectrum Analyzer with Q. Peak	Tektronix	2712	B023006	9KHz – 1.8GHz
Interface for Spectrum 2712	Tektronix	TD3F14A		
Loop Antenna	Rohde & Schwarz	HFH2-Z2	871336/48	9KHz-30MHz
Test Receiver	Rohde & Schwarz	ESH 3	892580/006	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	863512/012	25MHz – 1,300 MHz
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2		
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz
Signal Generator	Rohde & Schwarz	SWS 2	879113/42	100KHz – 1040 MHz
Digital Multimeter	Tektronix	DM2510G	DM- 2510GTW10555	10KHz – 30MHz
Turntable with Controller	Drehtisch	DT312		φ120 cm

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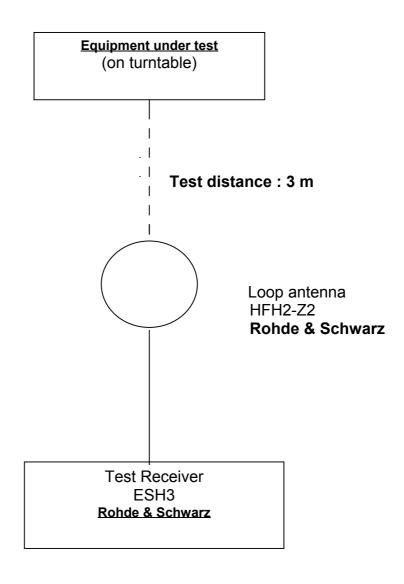
Radiated Emission Test Procedure (> 30MHz)



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Radiated Emission Test Procedure (9kHz - 30MHz)



Interference Radiation

Measurement of Radiated Emissions Acc: FCC Part 15 Subpart C

IECC Ref: 37356/4/400F Test Equipment

Model: PWYJT49TX60000

Applicant: JADA TOYS COMPANY LIMITED Antenna: Schwarzbeck BBA 9106

Ser.Nr.: 1

Set under test: Remote Control Car Hand Set

Connected sets:

Operating mode: Transmitter - Power "On"

and UHALP 9107

Receiver: ESVP Rohde & Schwarz

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	Frequency (MHz)	Horz. ReadB(µ)			Reading dΒ(μV)	Antenna Factor (dB)		Horiz. Test Result dΒ(μV/m)	Vert. Test Result dB(µV/m)	Limit dB(μV/m)
Peak	49.86	į	53		60	11.7		64.7	71.7	100.0
Av.	49.86	4	9.5		56.5	11.7		61.2	68.2	80.0
Harm. 2	99.72	< '	6	<	16	10.3	<	26.3	< 26.3	43.5
Harm. 3	149.58	< '	6	<	16	15.0	<	31.0	< 31.0	43.5
Harm. 4	199.44	< '	6	<	16	16.5	<	32.5	< 32.5	43.5
Harm. 5	249.3	< '	6	<	16	17.7	<	33.7	< 33.7	46.0
Harm. 6	299.16	< '	6	<	16	20.0	<	36.0	< 36.0	46.0
Harm. 7	349.02	< '	6	<	16	17.4	<	33.4	< 33.4	46.0
Harm. 8	398.88	< '	6	<	16	18.3	<	34.3	< 34.3	46.0
Harm. 9	448.74	< '	6	<	16	19.0	<	35.0	< 35.0	46.0
Harm. 10	498.6	< '	6	<	16	19.7	<	35.7	< 35.7	46.0
Harm. 11	548.46	< '	6	<	16	20.2	<	36.2	< 36.2	46.0
Harm. 12	598.32	< '	6	<	16	20.9	<	36.9	< 36.9	46.0
Harm. 13	648.18	< '	6	<	16	21.6	<	37.6	< 37.6	46.0
Harm. 14	698.04	< '	6	<	16	22.4	<	38.4	< 38.4	46.0
Harm. 15	747.9	< '	6	<	16	23.0	<	39.0	< 39.0	46.0
Harm. 16	797.76	<	6	<	16	23.7	٧	39.7	< 39.7	46.0
Harm. 17	847.62	<	6	<	16	24.3	٧	40.3	< 40.3	46.0
Harm. 18	897.48	< '	6	<	16	25.0	<	41.0	< 41.0	46.0
Harm. 19	947.34	< '	6	<	16	25.7	<	41.7	< 41.7	46.0
Harm. 20	997.2	< '	6	<	16	26.5	<	42.5	< 42.5	54.0

Remark: All frequencies in the required range have been scanned and only those

significant and representative readings are reported above. All emissions not reported above are all well below the limit.

Note: Unless otherwise indicated, the recorded readings are in quasi-peak values.

Interference Radiation

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Measurement of Radiated Emissions Acc: FCC Part 15 Subpart C

IECC Ref: 37356/4/400F

Model: PWYJT49TX60000

Applicant: JADA TOYS COMPANY LIMITED

Sample No.: 1

Set under test: Connected sets: Operating mode: Remote Control Car Hand Set

Power "On"

Test Equipment

Receiver: ESVP Rohde & Schwarz Antenna: Schwarzbeck BBA 9106

and UHALP 9107

Calculation for the radiation (average) at fundamental frequency

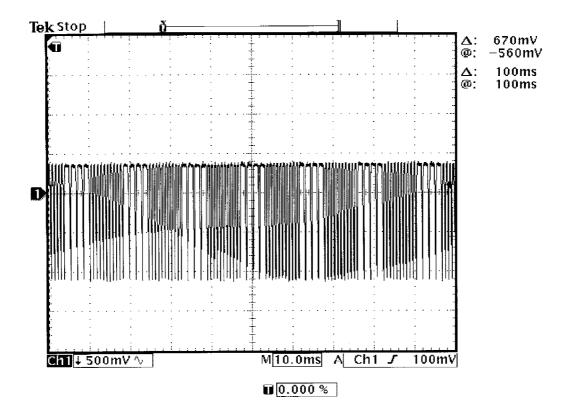
Frequency (MHz)	Maximum Tes	st Result (dB(µV/m))	FCC Limit $(dB(\mu V/m))$			
	<u>Peak</u>	Average *	<u>Peak</u>	<u>Average</u>		
49.86	64.7 (H)	61.2 (H)	100	80		
49.86	71.7 (V)	68.2 (V)	100	80		

Note: (1) The above peak value is the maximum value of the measurement in 3 orthogonal planes

(2) * Calculation for radiation (average) from the below time domain plot : Measured duty cycle (average) = 0.67

Radiation (average) = 74 Radiation (peak) + 20 x log (0.67)

Transmitter Emission - Time Domain Plot



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Notes for Radiation Measurement

1. Measurement facility:

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.

2. Distance between the EUT and measuring antenna:

3 meters.

3. Measuring instrumentations:

Rohde & Schwarz ESVP Test Receiver (20 - 1300 MHz) with a CISPR weighting QP detector, 6 dB bandwidth set at 120 KHz.

In the frequency range above 1000 MHz Spectrum Analyzer FMSM26 and Analyzer Display Unit FSA-D are used, bandwidth set at 100 kHz.

4. Measuring antenna:

Broad-band antenna for the frequency range 30 - 300 MHz and frequency range 300 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antennas are capable of measuring both horizontal and vertical polarizations.

Loop antenna for the frequency range 9KHz – 30MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the measurement data. The center of the loop 1 m above the ground plane, positioned with its plane vertical at the specified distance and rotated about its vertical axis and placed horizontal for maximum response at each azimuth about the EUT.

In the frequnecy range above 1 GHz horn-antenna RGA 50/60 is used.

5. Frequency range scanned:

The frequency range 30 - 5000 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.

6. Arrangement of EUT:

During the test, the sample was operated at rated supply voltage and arranged for maximum emissions. To find the maximum emission, the antenna was raised from 1 to 4 meters and was stopped at the maximum emission point.

7. Measuring Procedure:

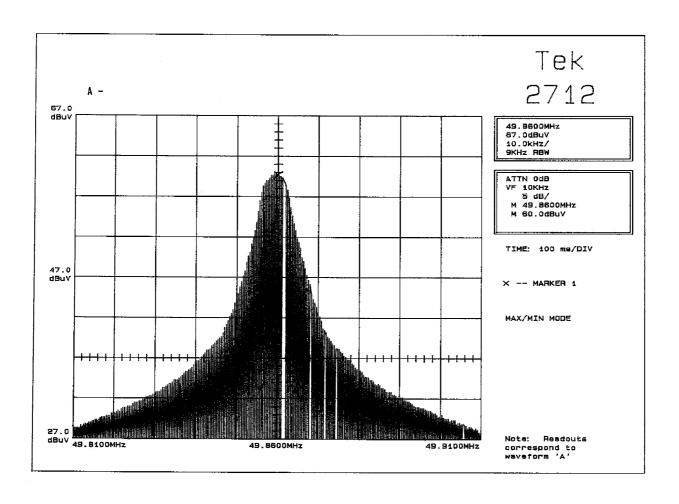
In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'.

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Measurement Data of Emissions within Band Edges



Result : The field strength of any emission within the operation band did not exceed 80 dB(μ V/m) for average value or 100 dB(μ V/m) for peak value. Refer to page 9 for the recorded value for the emission at the fundamental frequency.

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Notes for Measurement of Emissions within Band Edges

1. Measurement facility:

Measurement facility located at Fanling (Hong Kong) placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.

2. Measuring instrumentations:

Spectrum Analyzer: Tektronix 2712

3. Frequency range scanned:

The frequency range acc. to FCC rules and regulations part 15 subpart C - Intentional Radiators.

4. Arrangement of EUT:

During the test, the sample was operated.

5. Measuring Procedure:

In accordance with the relevant sections of American National Standards Institute (ANSI) C63.4 - 1992 'Methods of Measurement od Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz'.