

F C C TEST REPORT

REPORT NO.: 21574B/0/400F

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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

R/C Toy Receiver -- 49 MHz Receiver Product

47121R Model

ARTIN INDUSTRIAL CO LTD Importer

ARTIN INDUSTRIAL CO LTD Manufacturer:



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LABORATORY - REPORT

APPLICANT: ARTIN INDUSTRIAL CO LTD
ADDRESS: 2/F, Lee Sum Factory Building

21-25 Sze Mei Street San Po Kong, Kowloon

HONG KONG

DATE OF SAMPLE RECEIVED: 2000-01-11

DATE OF TESTING: 2000-01-20

DESCRIPTION OF SAMPLE:

Product: R/C Toy Receiver -- 49 MHz Receiver

Manufacturer: ARTIN INDUSTRIAL CO LTD

Model number: 47121R

Additional model number: --

Rating: DC 9.6V (Ni-Cd Rechargeable Battery Pack)

Country of Origin: P.R. CHINA

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

REQUESTED: Part 15 Subpart B – 'Unintentional 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.



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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	1	Max. 4 meters height	
Spectrum Analyzer with Q. Peak	Tektronix	2712	B023006	9KHz – 1.8GHz	
Interface for Spectrum 2712	Tektronix	TD3F14A			
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			
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127		2 x 10A, 50Ω, 50μH 10KHz-30MHz	
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- 2510GTW105 55	10KHz – 30MHz	
Turntable with Controller	Drehtisch	DT312		φ120 cm	



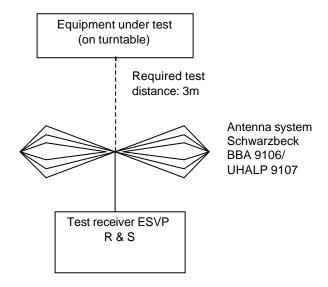
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Radiated Emission Testprocedure





Unintentional Radiators

International Electrical Certification Centre Ltd.

Measurement of Radiated Emissions (30MHz-1000MHz)

FCC Part 15 Subpart B

IECC Ref: 21574B/0/400F

47121R Model: ARTIN INDUSTRIAL CO LTD Applicant:

Ser.Nr.:

Set under test: R/C Toy Receiver

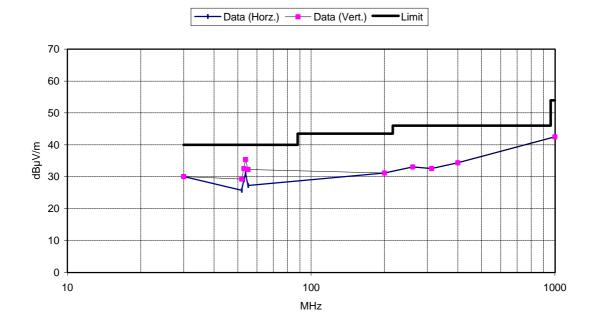
Connected sets:

Operating mode: Power "On" Test Equipment

Receiver: ESVP Rohde & Schwarz Antenna: Schwarzbeck BBA 9106

and UHALP 9107

Frequency (MHz)		z. Reading dB(µV)	Ve	rt. Reading dΒ(μV)	Antenna Factor (dB)	н	loriz. Test Result (µV/m)	Vert. Test Result (μV/m)	Limit (μV/m)
30	<	16	<	16	14.0	<	31.6	< 31.6	100.0
51.94		19		22.5	6.7		19.2	28.8	100.0
52.94		22.5		26	6.5		28.3	42.3	100.0
53.8		24.5		29	6.4		35.1	58.9	100.0
55.04		21		26	6.2		22.9	40.8	100.0
200	<	16	<	16	15.1	<	35.9	< 35.9	150.0
261		16	<	16	17.0		44.8	< 44.8	200.0
311.9	<	16	<	16	16.5	<	42.3	< 42.3	200.0
400	<	16	<	16	18.3	<	51.9	< 51.9	200.0
1000	<	16	<	16	26.5	<	133.4	< 133.4	500.0



Date:	



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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 maters

3. Measuring instrumentations:

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

5. Frequency range scanned:

The frequency range 30 - 1000 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.

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'.