

提供電器產品測試國際認證及諮詢服務 Technical Services in Electrical Product Testing, International Certification & Information

FCC ID: L9G47820T

Agent of (pkm)

Exhibit 1 - Test Report



F C C TEST REPORT

REPORT NO.: 15933/8/400F

Units 602-605, 6/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong Tel: [852] 2305-2570 Fax: [852] 2756-4480



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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 :

R/C Toy Transmitter

Model

47820T

Applicant :

ARTIN INDUSTRIAL CO LTD

Manufacturer:

ARTIN INDUSTRIAL CO LTD



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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:

1998-03-30

DATE OF TESTING:

1998-04-09

DESCRIPTION OF SAMPLE:

Product:

R/C Toy Transmitter

Manufacturer:

ARTIN INDUSTRIAL CO LTD

Model number:

47820T

Rating:

DC 9V ('6F22' Size Battery x 1)

Country of Origin:

P.R. CHINA

INVESTIGATIONS REQUESTED:

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

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.



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



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TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial Number	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 M ast System	Schwarzbeck	AM9104		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- 2510GTW1055 5	10KHz – 30MHz	
Turntable with Controller	Drehtisch	DT312		ф120 cm	



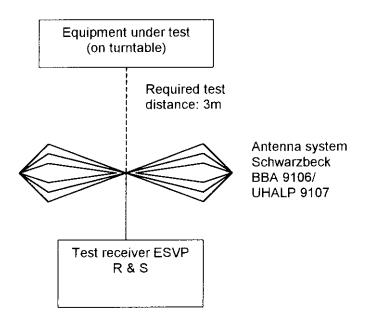
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Radiated Emission Test Procedure





Interference Radiation

Measurement of Radiated Emissions (30MHz-1000MHz)

International Electrical Certification Centre Ltd.

Acc: FCC Part 15 Subpart C

IECC Ref:

15933/8/400F

Model:

47820T

Applicant:

Ser.Nr.:

ARTIN INDUSTRIAL CO LTD

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Set under test:

Connected sets:

Operating mode:

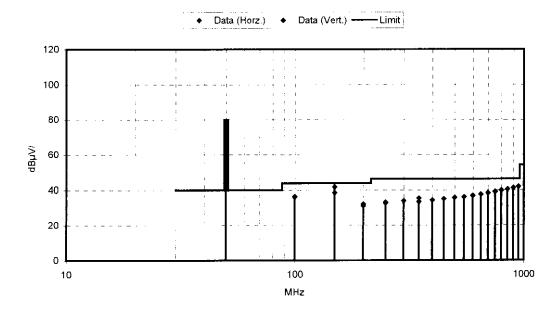
R/C Toy Transmitter

Power "On"

Test Equipment
Receiver: ESVP Rohde & Schwarz

Antenna: Schwarzbeck BBA 9106 and UHALP 9107

	Frequency (MHz)	Horz. Reading dΒ(μV)	Vert. Reading dB(µV)	Antenna Factor (dB)	Horiz. Test Result (µV/m)	Vert. Test Result (µV/m)	Limit (µV/m)
Peak	49.86	64	70.5	7.7	3864	8167	10000
Av.	49.86	63	67.5	7.7	3444	5782	10000
Harm. 2	99.72	27.5	28	8.5	63	67	150
Harm. 3	149.58	28.5	25.5	13.0 🥠	45 119	84	150
Harm. 4	199.44	17	< 16	15.1	40	< 36	150
Harm. 5	249.3	16.5	< 16	16.7	46	< 43	200
Harm. 6	299.16	< 16	< 16	18.0	< 50	< 50	200
Harm. 7	349.02	18	< 16	17.4	59	< 47	200
Harm. 8	398.88	< 16	< 16	18.3	< 52	< 52	200
Harm. 9	448.74	< 16	< 16	19.0	< 56	< 56	200
Harm. 10	498.6	< 16	< 16	19.7	< 61	< 61	200
Harm. 11	548.46	< 16	< 16	20.2	< 64	< 64	200
Harm. 12	598.32	< 16	< 16	20.9	< 70		
Harm. 13	648.18	< 16	< 16	21.6	< 76		200
Harm. 14	698.04	< 16	< 16	22.4	< 83		200
Harm. 15	747.9	< 16	< 16	23.0	< 90	< 90	200
Harm. 16	797. 7 6	< 16	< 16	23.7	< 96	< 96	200
Harm. 17	847.62	< 16	< 16	24.3	< 104		200
Harm. 18	897.48	< 16	< 16	25.0	< 112		200
Harm. 19	947.34	< 16	< 16	25.7	< 122	< 122	200



Date: 0 9 APR 1998



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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.

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 - 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.

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'.



Measurement of Emissions within band edges

Test Equipment

Tektronix 2712

Spectrum Analyzer:

International Electrical Certification Centre Ltd.

Acc: FCC Part 15 Subpart C

IECC Ref: 15933/8/400F

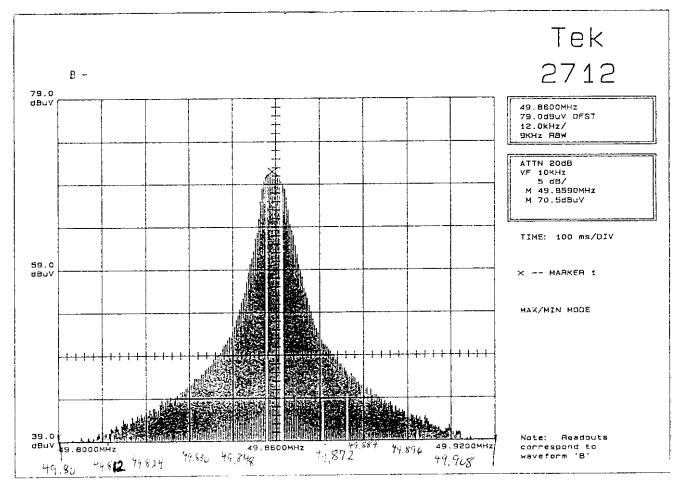
Model: 47820T

Applicant: ARTIN INDUSTRIAL CO LTD

Ser.Nr.: 1

Set under test: R/C Toy Transmitter

Connected sets: Operating mode: Power "On"



186/5 = .012 span

Date: 0 9 APR 1998

O.K.



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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'.