FCC ID: L9G9900R

Exhibit 1 - Test Report



F C C TEST REPORT

REPORT NO.: 15778/8/400F



FCC - Test Report

No. 15778/8/400F

Date: 1998-06-24

Page 2 of 11

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 Road Race Set - 49MHz

Receiver

Model

9900

Importer

ARTIN INDUSTRIAL CO LTD

Manufacturer:

ARTIN INDUSTRIAL CO LTD



FCC - Test Report

No. 15778/8/400F

Date: <u>1998-06-24</u>

Page 3 of 11

TABLE OF CONTENTS

- 2. Introduction
- 3. Table of Contents
- 4. Laboratory Report
- 5. Summary of Testresults
- 6. Test Equipment List
- 7. Radiated Emission Testprocedure
- 8. Interference Radiation (Datasheet)
- 9. Notes for Radiation Measurement (acc. to ANSI C63.4 1992)
- 10. Interference Voltage (Datasheet)
- 11. Notes for Voltage Measurement



FCC - Test Report

No. 15778/8/400F

Date: 1998-06-24

Page 4 of 11

LABORATORY - REPORT

ARTIN INDUSTRIAL CO LTD APPLICANT:

2/F. Lee Sum Factory Building ADDRESS:

21-25 Sze Mei Street San Po Kong, Kowloon

HONG KONG

DATE OF SAMPLE RECEIVED: 1998-06-18

1998-06-23 DATE OF TESTING:

DESCRIPTION OF SAMPLE:

R/C Road Race Set -- 49 MHz Receiver Product:

ARTIN INDUSTRIAL CO LTD Manufacturer:

9900 Model number:

AC/DC Adaptor (Model no. DC60900A, Input: AC 120V 60Hz 25W, Rating:

Output : DC 6V x 2 900mA)

P.R. CHINA Country of Origin:

INVESTIGATIONS REQUESTED:

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

Part 15 Subpart B - 'Unintentional Radiators'

See the attached test sheets **RESULTS:**

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



FCC - Test Report

No. 15778/8/400F

Date: <u>1998-06-24</u>

Page 5 of 11

Summary of Test Results

Interference Radiation:

Test result:

O.K.

Test data:

See attached data sheet

Interference Voltage:

Test result:

O.K.

Test data:

See attached data sheet



FCC - Test Report

No. 15778/8/400F

Date: <u>1998-06-24</u>

Page 6 of 11

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		2×10 A, 50 Ω, 50 μH 10 KHz- 30 MHz	
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			
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- 2510GTW10555	10KHz – 30MHz	
Turntable with Controller	Drehtisch	DT312		ф120 cm	



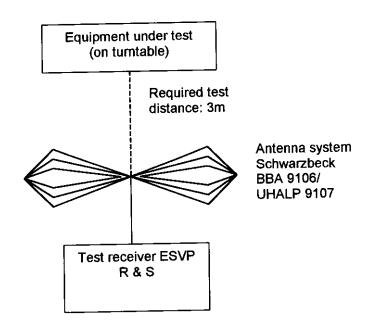
FCC - Test Report

No. 15778/8/400F

Date: 1998-06-24

Page 7 of 11

Radiated Emission Testprocedure





Unintentional Radiators

International Electrical Certification Centre Ltd.

Measurement of Radiated Emissions (30MHz-1000MHz) FCC Part 15 Subpart B

IEC	C	Ref:
	_	-

15778/8/400F

Test Equipment

Model: **Applicant:** 9900 ARTIN INDUSTRIAL CO LTD Receiver: ESVP Rohde & Schwarz Antenna: Schwarzbeck BBA 9106

Ser.Nr.:

and UHALP 9107

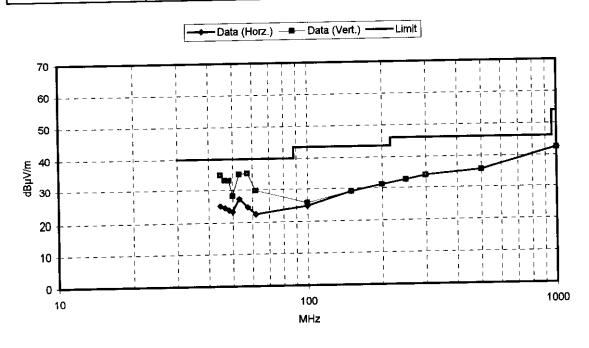
Set under test:

R/C Road Race Set

Connected sets: Operating mode:

Power "On" (Receiver)

Frequency (MHz)	Н	orz. Reading dB(µV)	Vert. Reading dB(μV)	Antenna Factor (dB)	Н	oriz. Test Result (μV/m)	Vert. Test Result (μV/m)	Limit (µV/m)
44.48	_	16	26	8.8	<	17.4	55.2	
46.44	<u> </u>	16	25	8.2	<	16.1	45.5	
48.28	┪	16	25.5	7.5	<	15.0	44.9	
49.86	╅	16	21	7.0	<	14.2	25.2	100.0
53.02	÷	20.5	28.5	6.5	1	22.4	56.3	100.0
57.36	╅	18.5	29.5			16.5	58.7	100.0
61.76	+	17	24.5	5.2		12.9	30.6	100.0
99.72	┪	16	17	8.5	<	16.9	18.9	150.0
	+	16	< 16	13.0	7~	28.2	< 28.2	150.0
150	+	16	< 16	15.1	<	35.8	< 35.8	150.0
199.44	╁	16	< 16	16.7	<	43.1	< 43.1	200.0
249.3			< 16	18.0	<	50.0	< 50.0	200.0
299.16		16	< 16	18.0	-	50.1		
300	_<	16		19.7	 	61.0		
500		16	< 16		-	133.4		
1000	<	16	< 16	26.5		133.4	100.5	



Date: 2 3 JUN 1998

O.K. ×

(D



FCC - Test Report

No. 15778/8/400F

Date: 1998-06-24

Page 9 of 11

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 - 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'.



Operating mode:

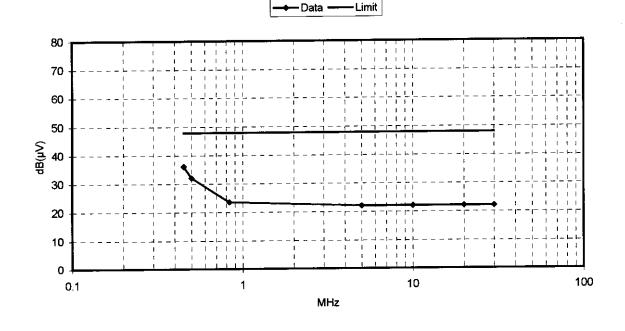
U 5/6

International Electrical Certification Centre Ltd.

Interf. Voltage 450 KHz - 25 MHz Acc: FCC Part 15 Subpart B

Power "On" (Receiver)

Frequency (MHz)	Reading dB(μV)	Test Result dB(μV)	Limit dB(μV)
0.45	36	36	48
0.5	32	32	48
0.83	23.5	23.5	48
5	< 22	< 22	48
10	< 22	< 22	48
20	< 22	< 22	48
30	< 22	< 22	48



2 3 JUN 1998

Q

Date:

Operator:

図 0.K.

_ .



FCC - Test Report

No. 15778/8/400F

Date: 1998-06-24

Page 11 of 11

Notes for Voltage Measurement

1. LISN (Line Impedance Stabilization Network) used:

LISN in accordance with IEEE Standard 213.

2. Measuring instrumentations:

Rohde & Schwarz ESH3 Test Receiver (9 KHz - 30 MHz) with a CISPR weighting QP detector, 6 dB bandwidth set at 10 KHz.

3. Frequency range scanned:

The frequency range 450 KHz - 30 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.

4. Setup of EUT:

Connection of equipment and operation conditions are the same as those in the Radiation measurement.

5. 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'