FCC-

TEST REPORT

REPORT NO.: 33693/3/400F

No. 33693/3/400F

Date: <u>2003-04-25</u> 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: 49 MHz Remote Control Receiver

Product Class: Low Power Communication Device

Receiver

Model : 664008

Importer : ARTIN INDUSTRIAL CO LTD

No. 33693/3/400F

Page 3 of 11

Date: 2003-04-25

TABLE OF CONTENTS

 Cover sheet 	1.	Cover	sheet
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- 2. Introduction
- 3. Table of Contents
- 4. Laboratory Report
- 5. Summary of Testresults
- 6. Test Equipment List
- 7. Radiated Emission Testprocedure (> 30MHz)
- 8. Radiated Emission Testprocedure (9kHz 30MHz)
- 9. Interference Radiation (Datasheet)
- 10. Cohere Plot at Fundamental Frequency
- 11. Notes for Radiation Measurement (acc. to ANSI C63.4 1992)

No. 33693/3/400F

Date: 2003-04-25

Page 4 of 11

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: 2003-04-15

DATE OF TESTING: 2003-04-22

DESCRIPTION OF SAMPLE:

Product: 49 MHz Remote Control Receiver

Product class: Low Power Communication Device Receiver

Model number: 664008

Rating: DC 6V ('AA' Size Battery x 4)

Country of Origin: P.R. CHINA

INVESTIGATIONS REQUESTED:

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

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

No. 33693/3/400F

Date: <u>2003-04-25</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: N.A. Test data: N.A.

PHOTOGRAPH OF THE SAMPLE



No. 33693/3/400F

Date: <u>2003-04-25</u> Page 6 of 11

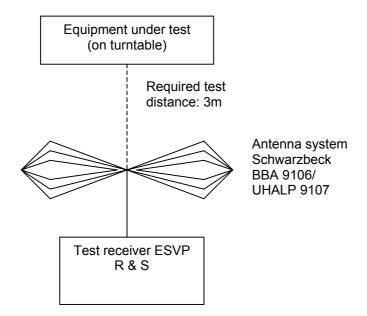
TEST EQUIPMENT LIST

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		
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		ф120 cm

No. 33693/3/400F

Date: <u>2003-04-25</u> Page 7 of 11

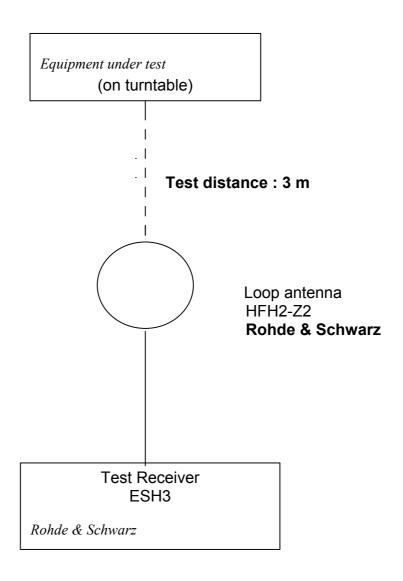
Radiated Emission Testprocedure (> 30MHz)



No. 33693/3/400F

Date: <u>2003-04-25</u> Page 8 of 11

Radiated Emission Test Procedure (9kHz - 30MHz)



Unintentional Radiators

Measurement of Radiated Emissions Page: 9 of 11 FCC Part 15 Subpart B Acc:

Test Equipment

and UHALP 9107

Receiver: ESVP Rohde & Schwarz

Antenna: Schwarzbeck BBA 9106

Date: 2003-04-25

IECC Ref: 33693/3/400F

Model: 664008

Applicant: ARTIN INDUSTRIAL CO LTD

Ser.Nr.:

Set under test: 49 MHz Remote Control Receiver

Connected sets:

Operating mode: Receiver - Power "On"

1. Standby Mode

Frequency (MHz)	Но	orz. Reading dB(µV)		Vert. Reading dB(µV)	Antenna Factor (dB)		loriz. Test Result dΒ(μV/m)	Vert. Test Result dB(µV/m)	Limit dB(μV/m)
00		40			` '		,	. ,	40.0
30	<	16	<	16	18.4	<	34.4		40.0
50	<	16	<	16	11.7	<	27.7	< 27.7	40.0
52	<	16		20	11.0	٧	27.0	31.0	40.0
53	<	16		18	10.6	٧	26.6	28.6	40.0
55	<	16	٧	16	10.0	٧	26.0	< 26.0	40.0
100	<	16	<	16	10.3	<	26.3	< 26.3	43.5
200	<	16	<	16	16.5	<	32.5	< 32.5	43.5
500	<	16	<	16	19.7	٧	35.7	< 35.7	46.0
1000	<	16	<	16	26.5	<	42.5	< 42.5	54.0

2. Motor running mode (motor noise measurement only)

Frequency (MHz)	Ног	z. Reading dΒ(μV)		Vert. Reading dB(μV)	Antenna Factor (dB)		doriz. Test Result dΒ(μV/m)	F	ert. Test Result 3(µV/m)	Limit dΒ(μV/m)
30	<	16	<	16	18.4	<	34.4	٧	34.4	40.0
100	<	16	٧	16	10.3	<	26.3	٧	26.3	43.5
200	<	16	<	16	16.5	<	32.5	٧	32.5	43.5
500	<	16	<	16	19.7	<	35.7	٧	35.7	46.0
1000	<	16	٧	16	26.5	<	42.5	٧	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.

No. 33693/3/400F

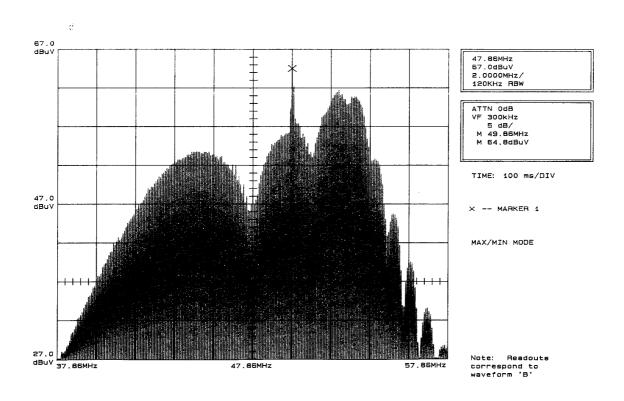
Date: <u>2003-04-25</u> Page 10 of 11

Cohere Plot at fundamental frequency

Sample location: Less than 0.5m from the measuring antenna

Applied signal: - 60dBm (non-modulated, 49.86 MHz)

Remark: Self-cohere



All emissions observed complies with FCC limits.

No. 33693/3/400F

Date: <u>2003-04-25</u> Page 11 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.

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.

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. 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'.