



FCC - TEST REPORT

REPORT NO.: 21992/0/400F

Head Office:

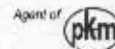
Unit 602-605, 6/F., 31 Lok Yip Rd., On Lok Tsuen, Fanling, N.T., Hong Kong. Tel: (852) 2305 2570 Fax: (852) 2756-4480 Home page: <http://www.iecc.com.hk> E-mail: info@iecc.com.hk
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Guangzhou Office:

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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 : Radio Control Tank -- 27 MHz
Transmitter

Model : 2050

Applicant : GOLDEN BRIGHT MANUFACTURER
LIMITED

Manufacturer : GOLDEN BRIGHT MANUFACTURER
LIMITED



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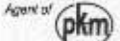


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LABORATORY - REPORT**APPLICANT:** GOLDEN BRIGHT MANUFACTURER LIMITED**ADDRESS:** 803 Peninsula Centre
Tsimshatsui East, Kowloon
HONG KONG**DATE OF SAMPLE RECEIVED:** 2000-03-08**DATE OF TESTING:** 2000-05-09 to 2000-06-07**DESCRIPTION OF SAMPLE:**

Product: Radio Control Tank -- 27 MHz Transmitter
Manufacturer: GOLDEN BRIGHT MANUFACTURER LIMITED
Model number: 2050
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

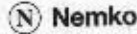
CONCLUSIONSFrom the measurement data obtained, the tested sample was considered to have **COMPLIED** with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

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:**

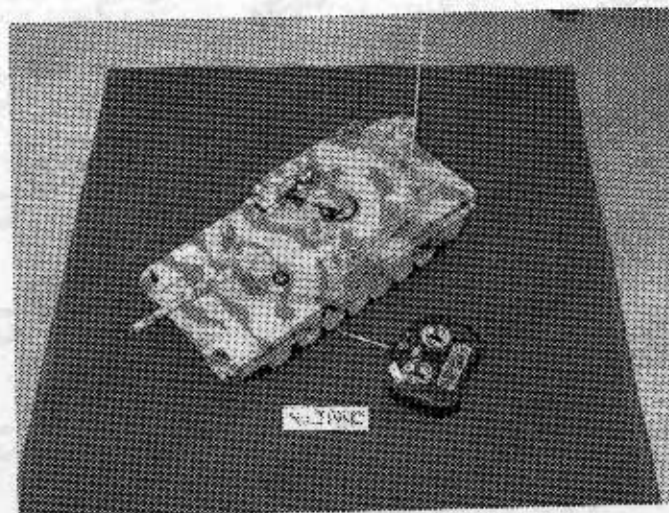
Test result: O.K.
Test data: See attached data sheet

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**Head Office:**Unit 602-605, 6/F., 31 Lok Yip Rd., On Lok Tsuen, Fanling, N.T., Hong Kong. Tel: (852) 2305 2570 Fax: (852) 2756-4480 Home page: <http://www.iecc.com.hk> E-mail: info@iecc.com.hk
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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	--	
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	--	φ120 cm



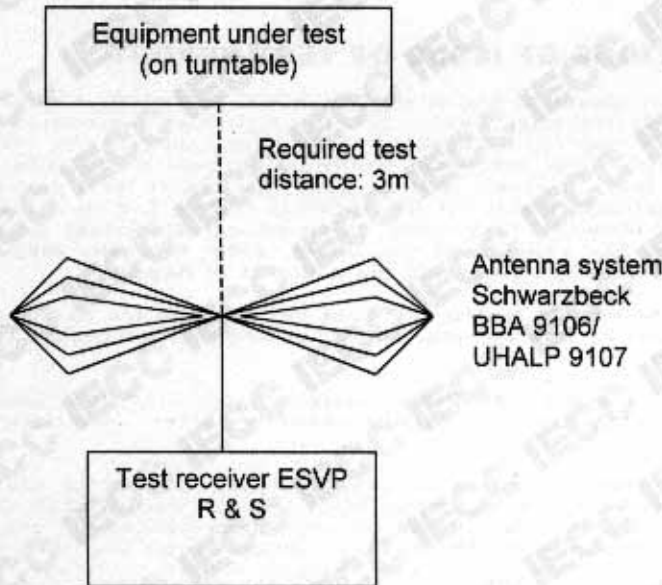
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Radiated Emission Test Procedure

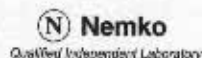


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Interference Radiation



Measurement of Radiated Emissions (27MHz-1000MHz)

Acc: FCC Part 15 Subpart C

IECC Ref: 21992/0/400F
 Model: 2050
 Applicant: GOLDEN BRIGHT MANUFACTURER LIMITED
 Ser.Nr.: 1
 Set under test: Radio Control Tank
 Connected sets: -
 Operating mode: Power "On"

Test Equipment
 Receiver: ESVP Rohde & Schwarz
 Antenna: Schwarzbeck BBA 9106 and UHALP 9107

	Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Antenna Factor (dB)	Horiz. Test Result (µV/m)	Vert. Test Result (µV/m)	Limit (µV/m)
Harm. 2	54.24	28	25	6.3	52	37	100
Harm. 3	81.36	24	25	5.2	29	32	100
Harm. 4	108.48	29	28	9.5	85	75	150
Harm. 5	135.6	27	26	12.2	91	81	150
Harm. 6	162.72	18	< 16	13.6	38	< 30	150
Harm. 7	189.84	< 16	< 16	14.8	< 35	< 35	150
Harm. 8	216.96	27	20	15.7	136	61	200
Harm. 9	244.08	27	22	16.5	150	84	200
Harm. 10	271.2	20	< 16	17.3	74	< 46	200
Harm. 11	298.32	< 16	< 16	18.0	< 50	< 50	200
Harm. 12	325.44	< 16	< 16	16.8	< 44	< 44	200
Harm. 13	352.56	< 16	< 16	17.4	< 47	< 47	200
Harm. 14	379.68	< 16	< 16	17.9	< 50	< 50	200
Harm. 15	406.8	< 16	< 16	18.4	< 52	< 52	200
Harm. 16	433.92	< 16	< 16	18.8	< 55	< 55	200
Harm. 17	461.04	< 16	< 16	19.2	< 57	< 57	200
Harm. 18	488.16	< 16	< 16	19.5	< 60	< 60	200
Harm. 19	515.28	< 16	< 16	19.9	< 62	< 62	200
Harm. 20	542.4	< 16	< 16	20.1	< 64	< 64	200
Harm. 21	569.52	< 16	< 16	20.5	< 67	< 67	200
Harm. 22	596.64	< 16	< 16	20.9	< 70	< 70	200
Harm. 23	623.76	< 16	< 16	21.2	< 73	< 73	200
Harm. 24	650.88	< 16	< 16	21.6	< 76	< 76	200
Harm. 25	678	< 16	< 16	22.1	< 80	< 80	200
Harm. 26	705.12	< 16	< 16	22.5	< 84	< 84	200
Harm. 27	732.24	< 16	< 16	22.8	< 87	< 87	200
Harm. 28	759.36	< 16	< 16	23.2	< 91	< 91	200
Harm. 29	786.48	< 16	< 16	23.5	< 95	< 95	200
Harm. 30	813.6	< 16	< 16	23.9	< 99	< 99	200
Harm. 31	840.72	< 16	< 16	24.2	< 103	< 103	200
Harm. 32	867.84	< 16	< 16	24.6	< 107	< 107	200
Harm. 33	894.96	< 16	< 16	24.9	< 111	< 111	200
Harm. 34	922.08	< 16	< 16	25.3	< 117	< 117	200
Harm. 35	949.2	< 16	< 16	25.8	< 122	< 122	200
Harm. 36	976.32	< 16	< 16	26.2	< 128	< 128	500

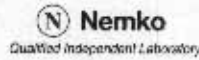
Note : Refer to the test report no. FCC-21992 issued by PKM Electronic GmbH for measurement at frequencies below 30 MHz

Test result:

O.K.
 Not O.K.

Date: 07 JUN 2000

Operator:



Interference Radiation



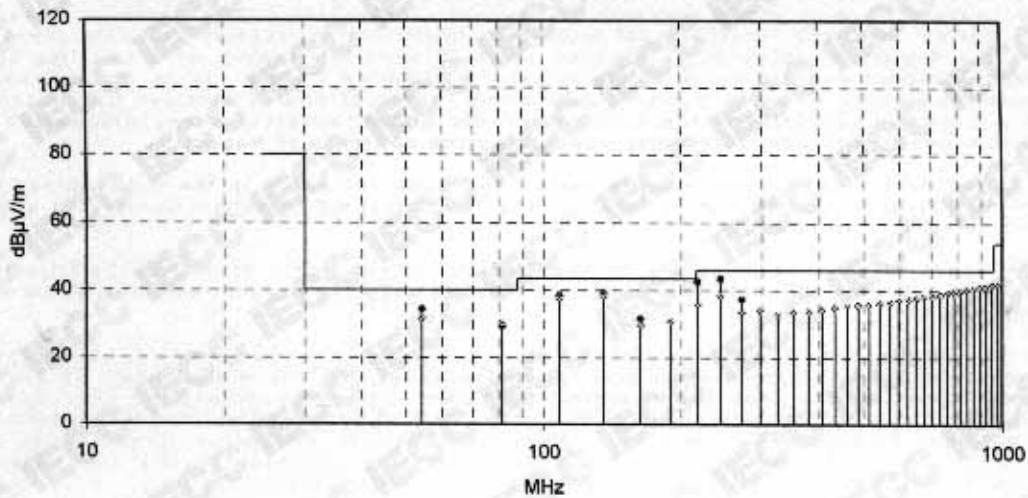
Measurement of Radiated Emissions (27MHz-1000MHz)

Acc: FCC Part 15 Subpart C

IECC Ref: 21992/0/400F
 Model: 2050
 Applicant: GOLDEN BRIGHT MANUFACTURER LIMITED
 Ser.Nr.: 1
 Set under test: Radio Control Tank
 Connected sets: -
 Operating mode: Power "On"

Test Equipment
 Receiver: ESVP Rohde & Schwarz
 Antenna: Schwarzbeck BBA 9106 and UHALP 9107

• Data (Horz.) x Data (Vert.) — Limit



Test result:

O.K.
 Not O.K.

Date: 07 JUN 2000

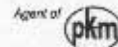
Operator: *[Signature]*



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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.

In the frequency 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.

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'.



Interference Radiation

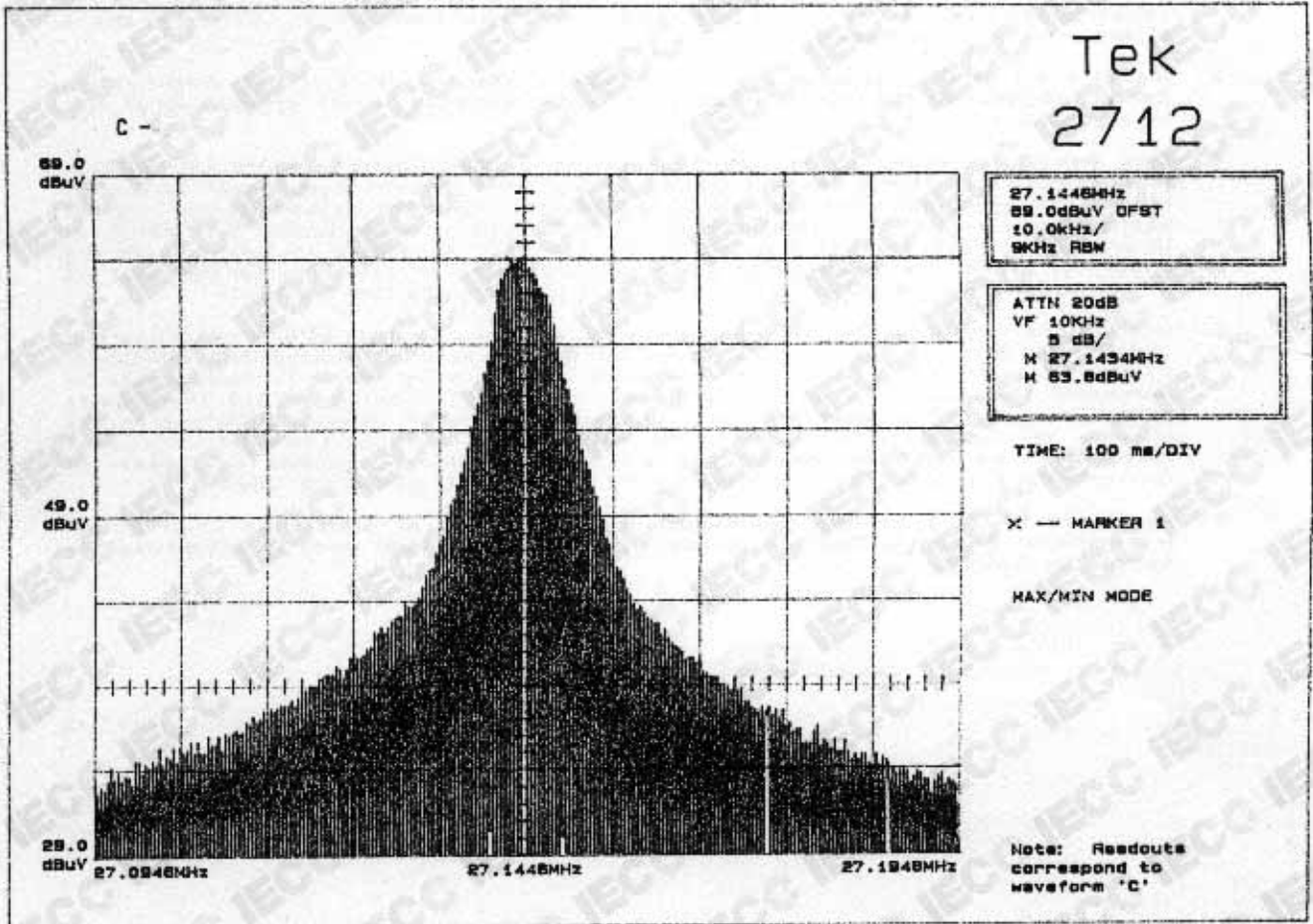


Measurement of Radiated Emissions (27MHz-1000MHz)

Acc: FCC Part 15 Subpart C

IECC Ref: 21992/0/400F
 Model: 2050
 Applicant: GOLDEN BRIGHT MANUFACTURER LIMITED
 Ser.Nr.: 1
 Set under test: Radio Control Tank
 Connected sets: -
 Operating mode: Power "On"

Test Equipment
 Receiver: ESVP Rohde & Schwa
 Antenna: Schwarzbeck BBA 910
 and UHALP 9107



Test result:

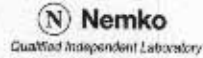
O.K.
 Not O.K.

Date: 07 JUN 2000

Operator:



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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 of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz'.

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