



JAPAN QUALITY ASSURANCE ORGANIZATION

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JQA APPLICATION NO.: 80-81036

Issue Date : April 13, 1999

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REPORT OF MEASUREMENTS

JQA APPLICATION NO.: 80-81036

Applicant : NIKKO CO., LTD.
1-7-14, Mizumoto, Katsushika-ku,
Tokyo 125-0032, Japan

Manufacturer : NIKKO TEC INTERNATIONAL LTD.
Room 812, Houston Center, 63 Mody Road,
Tsimshatsui, Kowloon, Hong Kong

Description of Equipment : Radio Controlled Toy
(Super regenerative Type)

FCC ID : CVTRN6230
Trade Name : NIKKO
Model No. : RN6230
Serial No. : None
Tuning Frequency : 49.830 MHz - 49.890 MHz
Power Supply : 4.8 VDC

Applicable Rule : FCC Rules & Regulations Part 15
Subpart B (June 23, 1989)

Place of Measurement : JQA EMC Engineering Dept.

Date of Measurement : March 31, 1999

Total Pages of This Report : 6 (including this page)

I certify that I am authorized to sign for the report and that all the statement in this report and in the exhibits hereto are true and correct to the best my knowledge and belief.

Shigeru Osawa, Engineer
Testing Div.
EMC Engineering Dept.



1. Radiated Spurious Emissions: [§15.109(a)]

Measurement Method Employed:

Measurements were made under the conditions specified ANSI C63.4.

The field strength measurements of the equipment under test were made at the distance of 3 meters away from the device which was placed on the wooden turntable 0.8 meter in height.

The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter.

These measurements were repeated with the receiving antenna polarized vertically.

The internal pre-amplifier was used from 30 MHz up to 1000 MHz.

Measurement Results:

Tuning Frequency : 49.860 MHz
Distance of Measurement : 3.0 meters

Frequency (MHz)	Antenna Factor (dB)	Meter Reading		Field Strength at 3 m	
		Horizontal (dB/μV)	Vertical (dB/μV)	Horizontal (μV/m)	Vertical (μV/m)
48.831	3.4	2.3	3.8	1.9	2.3
58.337	5.0	0.2	4.5	1.8	3.0
236.000	18.0	7.6	< -5.0	19.1	< 4.5
243.890	18.3	7.4	< -5.0	19.3	< 4.6
248.992	18.5	6.9	< -5.0	18.6	< 4.7
249.987	18.6	6.0	0.5	17.0	9.0

Note: 1. The spectrum was checked from 30 MHz to 1000 MHz.

All emissions not listed were found to be more than 20 dB below the limits.

2. The symbol of "<" means "or less".

3. The cable loss was included in the antenna factor.

4. Sample calculation :

At 48.831 MHz

$$10(Af+Mr)/20 = 10(3.4+3.8)/20 = 2.3 \mu V/m$$

Where,

Af = Antenna Factor including the cable loss.

Mr = Meter Reading

5. Measuring Instrument Setting:

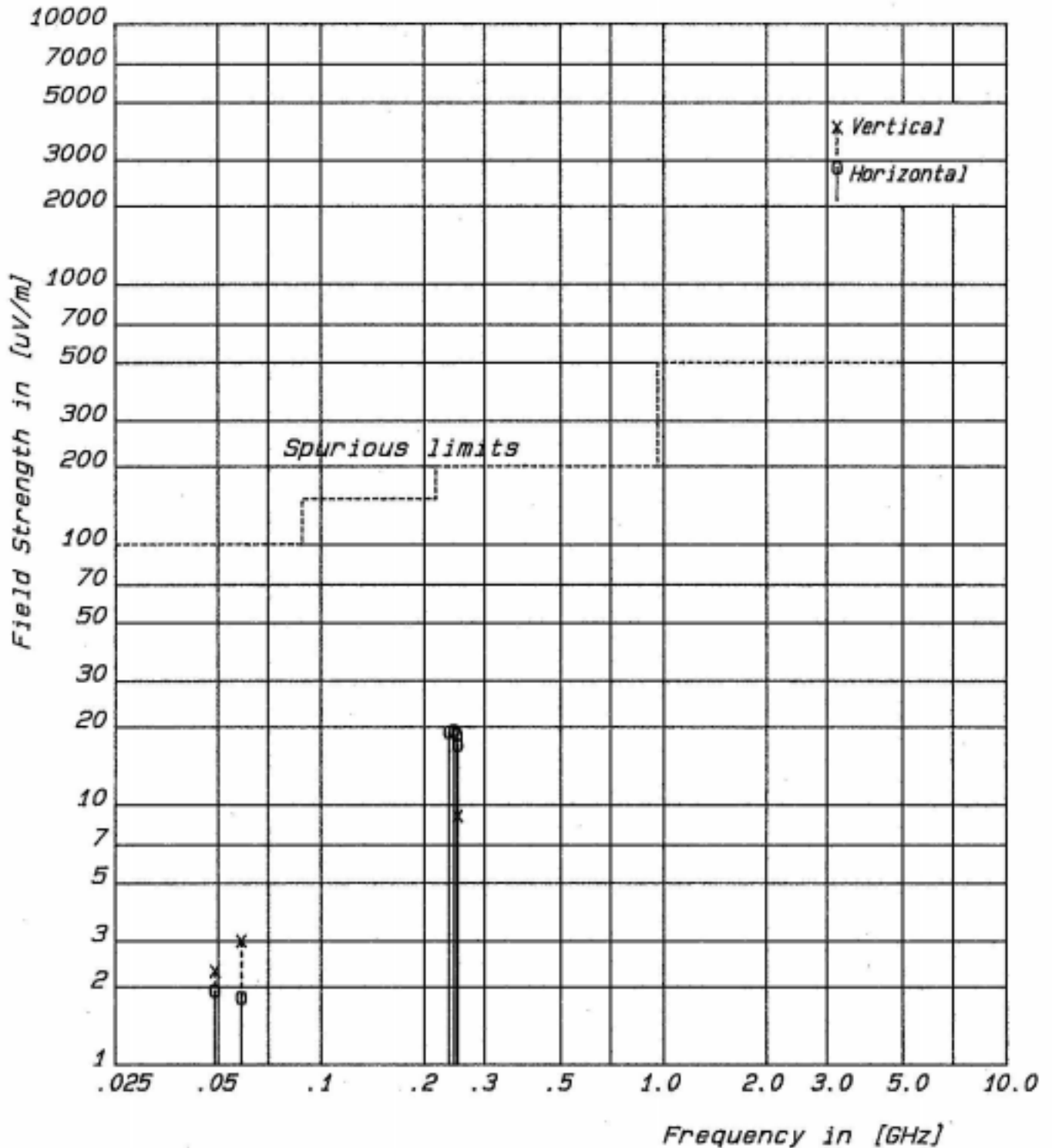
Detector function : CISPR quasi-peak

IF Bandwidth : 120 kHz

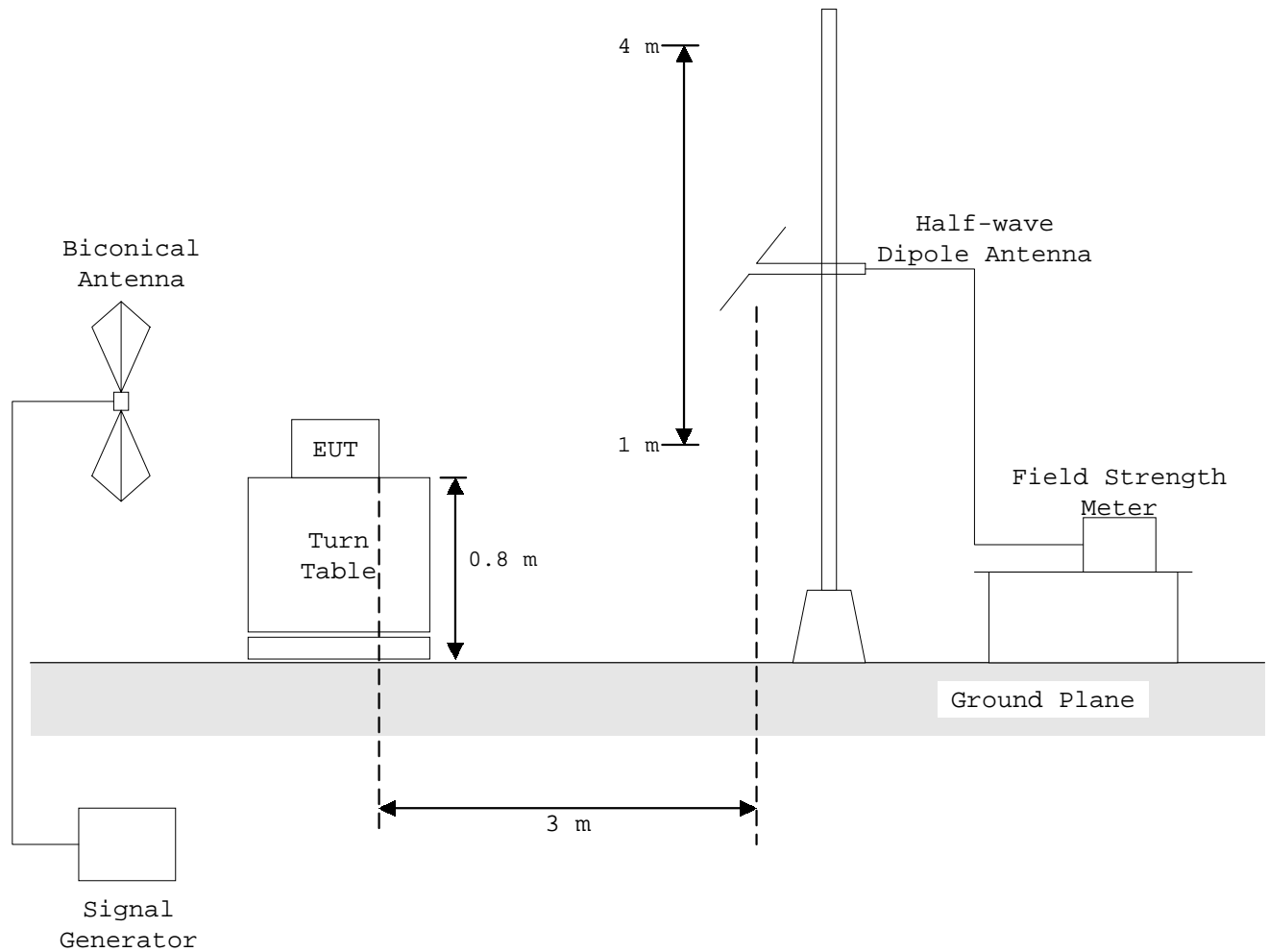
Radiated Spurious Emission

FCC ID : CVTRN6230

Tuning Frequency : 49.860 MHz



MEASUREMENT SET-UP FOR RADIATED EMISSIONS



Configuration of EUT





LIST OF MEASUREMENT EQUIPMENT

<u>Equipment (Model No.)</u>	<u>Manufacturer</u>	<u>Date of Cal.</u>
1. Field Strength Meter		
ESVP	Rohde & Schwarz	May 1998
2. Tuned Dipole Antenna		
KBA-511	Kyoritsu Electrical Works	November 1998
KBA-611	Kyoritsu Electrical Works	November 1998
3. Signal Generator		
TR4511	ADVANTEST	May 1998
4. Biconical Antenna		
94455-1	EMCO	-