



香港標準及檢定中心
The Hong Kong Standards and Testing Centre Ltd

Date : October 26, 1998

FCC ID: N7M2020

TECHNICAL REPORT

=====

1) Full Name of the Manufacturer of the Device

WINTY INDUSTRIES CORPORATION (SHENZHEN) CO., LTD.

2) Mailing Address of the Manufacturer of the Device

Shi Tang Boao An.
Shenzhen.
CHINA

3) Trade Name

INTERACTIVE TOY

4) Model Number

2020

5) Additional Model Numbers under which the Device will be Marketed

NIL

6) Copy of the Operating Instruction Furnished to the User

As enclosed





The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-07-17

TEST REPORT

Page 1 of 7

No.: HM1045/504

APPLICANT: (Code: 021577)

HENRY CONCEPTS INTERNATIONAL LTD.
Room 901, Fung Lee Commercial Building, 6-8A Prat Avenue, T.S.T., Kowloon, Hong Kong.

DATE OF SAMPLES RECEIVED: 1998-06-05

DATE OF TESTING: 1998-07-09

DESCRIPTION OF SAMPLE(S):

A sample of product said to be:

A sample of product info:

Product:	Remote Control Alien Wizard (Flying Saucer)
Manufacturer:	Winty Industries Corporation (Shenzhen) Co. Ltd.
Model Number:	2020
Band Name:	INTERACTIVE TOY
Rating:	9Vd.c. ("6F22" size battery X 1)
Origin:	China

INVESTIGATIONS REQUESTED:

Measurement to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart C - Intentional Radiator.

RESULT/REMARK: Please see attached sheet(s).

CONCLUSION:

From the measurement data obtained, the tested sample was considered to have COMPLIED after modification by customer with the clauses 15.227 of Federal Communications Commission Rules and Regulations Part 15.

TEST EQUIPMENT AUDIT: Please see Appendix A

TEST REPORT
Date: 2023-09-15
Testing Engineer: John Doe
Verify by: Sally Wong
for Managing Director: Patrick Wong

Testing Engineer

Verify by

Patrick Wong
for Managing Director

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The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-07-17

No.: HM1045/504

TEST REPORT

Page 2 of 7

TEST SUMMARY

***** INTENTIONAL RADIATOR *****

(1)	<u>Measurement of Emission of RF energy on the carrier frequency</u>	Satisfactory
	<u>Measurement of the out-of band emissions including harmonics</u>	Satisfactory
(2)	<u>Measurement of Emission Within Band Edges</u>	Satisfactory
(3)	<u>Measurement of Line-Conducted Voltage onto AC Power Line</u>	Not applicable

TEST DATA

Please refer to the attached result sheets.



The Hong Kong Standards and Testing Centre Ltd.

TEST REPORT

Page 3 of 7

Date: 1998-07-17

No.: HM1045/504

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Section 15.227 (26.96-27.28 MHz)

TEST CONDITION: Normal

TEST DATE : 1998-07-09

Emission of RF energy on the carrier frequency -- 27.145 MHz

(PEAK VALUE)

Emission Frequency	Meter Reading	Polarization	Antenna Factor	Field Strength (at 3m)	FCC Limit
MHz	dB(μ V)	H-V	dB	dB(μ V/m)	μ V/m

27.1 47.9 V + 18.6 66.5 2113.5 100000

Emission of RF energy on the carrier frequency -- 27.145 MHz

(AVERAGE VALUE)

Emission Frequency	Meter Reading	Polarization	Antenna Factor	Field Strength (at 3m)	FCC Limit
MHz	dB(μ V)	H-V	dB	dB(μ V/m)	μ V/m

27.1 43.9 V + 18.6 62.5 1333.5 10000

... to be continued



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-07-17

TEST REPORT

Page 4 of 7

No.: HM1045/504

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference . . Continued ..

TEST REFERENCE: FCC Rules Part 15 Section 15.227 (26.96-27.28 MHz)

TEST CONDITION : Normal

TEST DATE : 1998-07-09

The out-of-band emissions, including harmonics (25-1000 MHz)

(CISPR VALUE)

Emission Frequency	Meter Reading	Polarization		Antenna Factor	Field Strength (at 3m)		FCC Limit
MHz	dB(µV)	H	V	dB	dB(µV/m)	µV/m	µV/m
54.3	23.2	V	+	13.2	36.4	66.1	100
81.4	15.3	V	+	9.3	24.6	17.0	100
108.6	3.5	V	+	12.6	16.1	6.4	150
135.7	< 1.0		+	11.2	< 12.2	< 4.1	150
162.9	12.3	H	+	9.8	22.1	12.7	150
190.0	< 14.6	H	+	11.5	26.1	20.2	150
217.2	< 1.0		+	12.6	< 13.6	< 4.8	200
244.3	< 1.0		+	13.9	< 14.9	< 5.6	200
271.5	< 1.0		+	16.5	< 17.5	< 7.5	200
298.6	< 1.0		+	17.1	< 18.1	< 8.0	200
325.7	1.0		+	17.1	< 18.1	< 8.0	200
352.9	1.0		+	17.3	< 18.3	< 8.2	200
380.0	1.0		+	18.0	< 19.0	< 8.9	200
407.2	1.0		+	18.8	< 19.8	< 9.8	200
434.3	1.0		+	19.5	< 20.5	< 10.6	200
461.5	1.0		+	20.1	< 21.1	< 11.4	200
488.6	1.0		+	20.3	< 21.3	< 11.6	200
515.8	1.0		+	20.9	< 21.9	< 12.4	200
542.9	1.0		+	22.1	< 23.1	< 14.3	200
570.0	1.0		+	22.8	< 23.8	< 15.5	200
597.2	1.0		+	23.3	< 24.3	< 16.4	200
624.3	1.0		+	23.4	< 24.4	< 16.6	200
651.5	1.0		+	23.6	< 24.6	< 17.0	200
678.6	1.0		+	24.9	< 25.9	< 19.7	200
705.8	1.0		+	25.1	< 26.1	< 20.2	200
732.9	1.0		+	25.4	< 26.4	< 20.9	200
760.1	1.0		+	26.4	< 27.4	< 23.4	200
787.2	1.0		+	26.8	< 27.8	< 24.5	200
814.4	1.0		+	26.7	< 27.7	< 24.3	200

... to be continued



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-07-17

TEST REPORT

Page 5 of 7

No.: HM1045/504

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference . . Continued ..

TEST REFERENCE: FCC Rules Part 15 Section 15.227 (26.96-27.28 MHz)

TEST CONDITION : Normal

TEST DATE : 1998-07-09

**The out-of-band emissions, including harmonics (25-1000 MHz)
(CISPR VALUE)**

Emission Frequency	Meter Reading	Polarization	Antenna Factor	Field Strength (at 3m)	FCC Limit
MHz	dB(μ V)	H-V	dB	dB(μ V/m)	μ V/m
841.5	< 1.0	+	26.1	< 27.1	< 22.6
868.6	< 1.0	+	26.8	< 27.8	< 24.5
895.8	< 1.0	+	27.1	< 28.1	< 25.4
922.9	< 1.0	+	27.5	< 28.5	< 26.6
950.1	< 1.0	+	28.1	< 29.1	< 28.5
977.2	< 1.0	+	28.2	< 29.2	< 28.8
999.5	< 1.0	+	28.5	< 29.5	< 29.9

=====SUMMARY=====

data is within limits

=====

Broad-band Antennas were used both polarizations of emissions were measured.

===== polarizations at highest reading indicated as:

H -- Horizontal V -- Vertical

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The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-07-17

TEST REPORT

Page 6 of 7

No.: HM1045/504

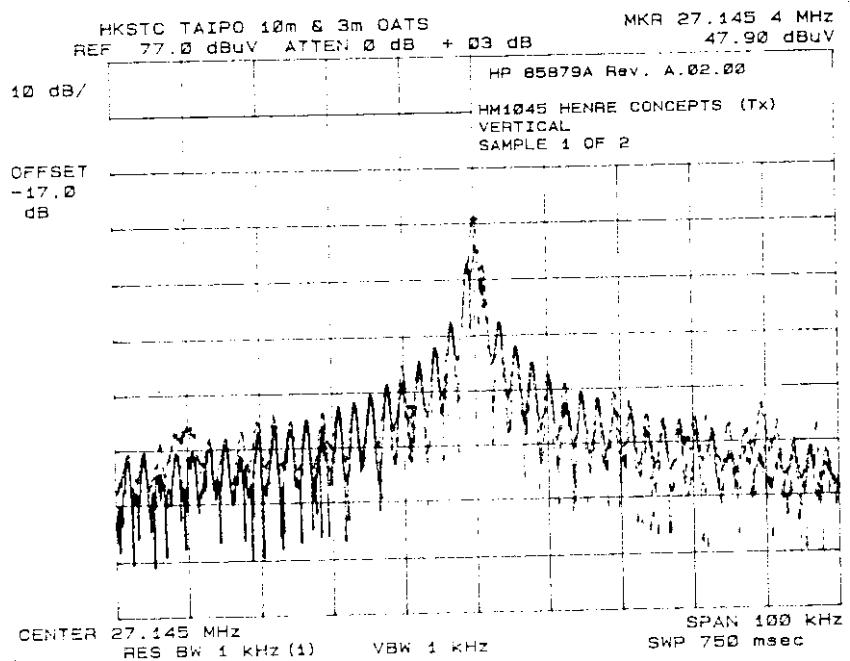
*** INTENTIONAL RADIATOR ***

(2) Measurement of Emissions Within Band Edges.

TEST REFERENCE: FCC Rules Part 15 section 15.227(26.96-27.28 MHz)

TEST CONDITION: Normal

TEST DATE : 1998-07-09



RESULTS AND NOTES

- L: FCC Lower Band Edge.....-> 26.960MHz
- H: FCC Higher Band Edge.....-> 27.280MHz
- C: Unmodulated carrier at frequency.....-> 27.145MHz
- D: No. of dB from unmodulated carrier.....-> 47.90dB

SPECTRUM ANALYZER SETTINGS

- Resolution bandwidth : 1.0KHz
- Frequency span : 10.0KHz/div
- No. of dB/div : 10.0dB/div

FCC Limit

Minimum No. of dB from unmodulated carrier required : 26.0dB

=====SUMMARY=====

All data is within limits

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The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-07-17

TEST REPORT

Page 7 of 7

No.: HM1045/504

NOTES FOR THE RADIATION MEASUREMENT

(1) Test site facility:

Open field test site located at Taipo (Hong Kong) with a metal ground plane on filed 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:

CISPR Quasi-peak type field strength meter (25 MHz - 1000 MHz). 6 dB bandwidth set at 120KHz. Also, peak level of the fundamental emissions was measured in order to determine compliance with the 20dB peak to average limit specified in Section 15.35(b) of the FCC new Rules.

(4) Measuring antenna:

Broad band antenna for the frequency range 25-1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable, included in the Antenna Factor for measurement data. The antenna are capable of measuring both horizontal and vertical polarizations.

(5) Frequency range scanned:

The frequency range from 25 MHz to 1000 MHz had been searched. 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 clauses of the FCC Rules Part 15 section 15.227.

(8) Measuring Uncertainty:

The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 200MHz = $\pm 3.7\text{dB}$, 200MHz to 1000MHz = $+ 3.0\text{dB}/-2.7\text{dB}$.

Remark: Purpose of this test is to provide the Applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under FCC's Equipment Authorization Program. This test itself is not an Approval Test.

***** End of Document *****



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-09-17
No.: HM1045/504

APPENDIX A

Page A1 of A1

TEST EQUIPMENT AUDIT

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HP	HP85660B	3144A21192	29/05/98
EM008	SPECTRUM ANALYZER DISPLAY	HP	HP85662A	3144A20514	29/05/98
EM009	QUASI-PEAK ADAPTOR	HP	HP85650A	3303A01702	29/05/98
EM010	RF PRESELECTOR	HP	HP85685A	3221A01410	29/05/98
EM011	ATTENUATOR/SWITCH	HP	HP11713A	2508A10595	29/05/98
EM012	PRE-AMPLIFIER	HP	HP8449B	3008A00262	29/05/98
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE	HP	HP9000	6226A60314	CM
	FLOPPY DRIVE	HP	HP A1097U	3151J39517	
		HP	HP9133L	2623A92468	
EM016	ANTENNA	ARA INC.	LPB-2513/A	1047	05/08/98
EM022	SIGNAL GENERATOR	HP	8640B	1948A11892	30/03/98
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	16/02/98

ABBREVIATIONS:

CM = Corrective Maintenance

N/A = Not Applicable

HENRY CONCEPTS INTERNATIONAL LTD.

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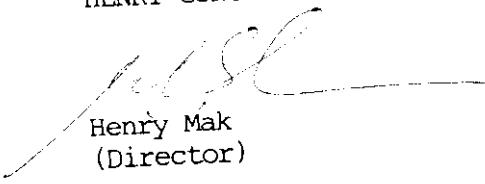
Attn. Mr. Patrick Wong

Dear Sir,

Re: Letter of Attestation

This equipment has been tested in accordance with the requirements contained in the appropriate Commission regulations. To the best of my knowledge, these tests were performed using measurement procedures consistent with industry or Commission standards and demonstrate that the equipment complies with the appropriate standards. Each unit manufactured, imported or marketed, as defined in the Commission's regulations, will conform to the samples tested within the variations that can be expected due to quantity production and testing on a statistical basis. I further certify that the necessary measurements were made by the Hong Kong Standards and Testing Centre Ltd. 10 Dai Wang Street, Taipo Industrial Estate, Taipo, NT, Hong Kong.

Yours sincerely,
HENRY CONCEPTS INTERNATIONAL LTD.


Henry Mak
(Director)