

Date: 1999-11-02
No.: WM100267

TEST REPORT

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APPLICANT: (Code : GOE003)

GOLDEN EAGLE ELECTRONICS MFY. LTD.
SUITE 215, 2/F, NEW EAST OCEAN CTR., 9 SCIENCE MUSEUM RD.,
T.S.T. EAST, KLN., HONG KONG.

DATE OF SAMPLES RECEIVED: 1999-10-22

DATE OF TESTING: 1999-10-26 to 1999-10-29

DESCRIPTION OF SAMPLE(S):

A sample of product said to be:

Product: TALKBACK BABY MONITOR
Manufacturer: DONGGUAN YIHUA ELECTRONIC CO., LTD.
Model Number: 3820
Brand Name: THE FIRST YEARS
Rating: 6Vd.c. ("AA" size battery × 4), with jack
Origin: CHINA

The AC/DC adaptor used for the tests was a Winstar NA1535 Universal adaptor.

INVESTIGATIONS REQUESTED:

Measurement to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart B - Unintentional Radiator and 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 with the clause 15.109(a) and ANSI C63.4-1992 Section 12.1.1.1-2 for the Receiver Section and for the Transmitter Section with the clause 15.235 of Federal Communications Commission Rules and Regulations Part 15.

TEST EQUIPMENT AUDIT: Please see Appendix A.

MODIFICATION : Change resistor R63 to 82kΩ.

Law Man Kit

Testing Engineer

Kitty Choy

Verify by

Patrick Wong

Patrick Wong
for Managing Director

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TEST SUMMARY

UNINTENTIONAL RADIATOR

- (A) Measurement of Radiated Emissions Satisfactory
- (B) Line Conducted Voltage Test Satisfactory

*** INTENTIONAL RADIATOR*** :

- (1) Measurement of Emission of RF energy on the carrier frequency..... Satisfactory
- Measurement of the out-of band emissions including harmonics..... Satisfactory
- (2) Measurement of Emission Within Band Edges..... Satisfactory
- (3) Measurement of Line-Conducted Voltage onto AC Power Line..... Satisfactory

TEST DATA

Please refer to the attached result sheets.

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UNINTENTIONAL RADIATOR

(A) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Subpart B section 15.109(a)

TEST CONDITION : Normal (Channel A & B)

TEST DATE : 1999-10-26

Freq. to which tuned	Freq of the emission	Polarization H-V	Meter reading (at 3m)		Antenna factor	Field Strength (at 3m)		FCC limit @
MHz	MHz		dB(μV)	dB		dB(μV/m)	μV/m	μV/m
49.860	49.9	<	1.0	+	15.0	< 16.0	< 6	100
	99.7	<	1.0	+	12.2	< 13.2	< 5	150
	149.6	<	1.0	+	9.8	< 10.8	< 3	150
	199.4	<	1.0	+	11.5	< 12.5	< 4	150
	249.3	<	1.0	+	15.9	< 16.9	< 7	200
	299.1	<	1.0	+	17.0	< 18.0	< 8	200
	349.0	<	1.0	+	17.2	< 18.2	< 8	200
	398.8	<	1.0	+	18.8	< 19.8	<10	200
	448.7	<	1.0	+	19.7	< 20.7	<11	200
	498.6	<	1.0	+	20.6	< 21.6	<12	200
	548.4	<	1.0	+	22.2	< 23.2	<14	200
	598.3	<	1.0	+	23.4	< 24.4	<17	200
	648.1	<	1.0	+	23.5	< 24.5	<17	200
	698.0	<	1.0	+	25.0	< 26.0	<20	200
	747.8	<	1.0	+	26.2	< 27.2	<25	200
	797.7	<	1.0	+	27.2	< 28.2	<25	200
	847.5	<	1.0	+	27.2	< 28.2	<25	200
	897.5	<	1.0	+	27.2	< 28.2	<25	200
	947.2	<	1.0	+	27.8	< 28.8	<27	200
	997.1	<	1.0	+	28.5	< 29.5	<27	500

=====SUMMARY=====

All data is within limits

=====

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

Polarizations at highest reading indicated as:

H -- Horizontal

V -- Vertical

=====

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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 ET and measuring antenna:

3 meters.

(3) Measuring instrumentation:

CISPR Quasi-peak type field strength meter (25 MHz - 1000 MHz.). 6 dB bandwidth set at 120 KHz. 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 15.109(a) and ANSI C63.4:1992 section 12.1.1.1-2.

(8) Measuring Uncertainty:

The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 300MHz = $\pm 3.7\text{dB}$, 300MHz 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 Equipment Authorization Program. This test itself is not an Approval Test.

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(B) Measurement of Line-Conducted Voltage onto AC Power Line

TEST REFERENCE : FCC Rules Part 15 Subpart B Section 15.107(a)
(Class B)

TEST CONDITION : Normal (Channel A & B)

TEST DATE : 1999-10-26

(1) Between "Live" and "Ground"

Frequency Range of Emission			Maximum Measured Radio Noise		FCC Limit (Class B)
MHz			dB(μV)	μV	μV
0.45	-	0.8	16.99	7.07	250.00
0.8	-	1.6	< 13.43	4.69	250.00
1.6	-	3.0	0.00	1.00	250.00
3.0	-	5.0	0.00	1.00	250.00
5.0	-	7.0	0.00	1.00	250.00
7.0	-	9.0	0.00	1.00	250.00
9.0	-	11.0	0.00	1.00	250.00
11.0	-	13.0	0.00	1.00	250.00
13.0	-	15.0	0.00	1.00	250.00
15.0	-	17.0	0.00	1.00	250.00
17.0	-	19.0	0.00	1.00	250.00
19.0	-	21.0	0.00	1.00	250.00
21.0	-	23.0	0.00	1.00	250.00
23.0	-	25.0	0.00	1.00	250.00
25.0	-	27.0	0.00	1.00	250.00
27.0	-	30.0	0.00	1.00	250.00

- End -

----- SUMMARY -----

All data is within limits

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(B) Measurement of Line-Conducted Voltage onto AC Power Line

TEST REFERENCE : FCC Rules Part 15 Subpart B Section 15.107(a)
(Class B)

TEST CONDITION : Normal (Channel A & B)

TEST DATE : 1999-10-26

(1) Between "Neutral" and "Ground"

Frequency Range of Emission			Maximum Measured Radio Noise		FCC Limit (Class B)
MHz			dB(μV)	μV	μV
0.45	-	0.8	15.24	5.78	250.00
0.8	-	1.6	13.43	4.69	250.00
1.6	-	3.0	0.00	1.00	250.00
3.0	-	5.0	0.00	1.00	250.00
5.0	-	7.0	0.00	1.00	250.00
7.0	-	9.0	0.00	1.00	250.00
9.0	-	11.0	0.00	1.00	250.00
11.0	-	13.0	0.00	1.00	250.00
13.0	-	15.0	0.00	1.00	250.00
15.0	-	17.0	0.00	1.00	250.00
17.0	-	19.0	0.00	1.00	250.00
19.0	-	21.0	0.00	1.00	250.00
21.0	-	23.0	0.00	1.00	250.00
23.0	-	25.0	0.00	1.00	250.00
25.0	-	27.0	0.00	1.00	250.00
27.0	-	30.0	0.00	1.00	250.00

- End -

----- SUMMARY -----

All data is within limits

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**** INTENTIONAL RADIATOR *****

(1) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Subpart Section 15.235(49.82-49.90 MHz)

TEST CONDITION : Normal (Channel A)

TEST DATE : 1999-10-29

Emission of RF energy on the carrier frequency -- 49.875 MHz (PEAK 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
49.90	58.7	H +	15.0	73.7	4841.7	100000

Emission of RF energy on the carrier frequency -- 49.875 MHz (AVERAGE 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
49.90	58.6	H +	15.0	73.6	4786.3	10000

... to be continued

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*** INTENTIONAL RADIATOR ***

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

TEST REFERENCE: FCC Rules Part 15 Section 15.235(49.82-49.90 MHz)

TEST CONDITION : Normal (Channel A)

TEST DATE : 1999-10-29

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
99.7	< 1.0		+ 12.2	< 13.2	< 4.6	150
149.6	< 1.0		+ 9.8	< 10.8	< 3.5	150
199.4	< 1.0		+ 11.5	< 12.5	< 4.2	150
249.3	< 1.0		+ 15.9	< 16.9	< 7.0	200
299.1	< 1.0		+ 17.0	< 18.0	< 8.0	200
348.8	< 1.0		+ 17.2	< 18.2	< 8.1	200
398.6	< 1.0		+ 18.8	< 19.8	< 9.8	200
448.5	< 1.0		+ 19.7	< 20.7	< 10.8	200
498.3	< 1.0		+ 20.6	< 21.6	< 12.0	200
543.1	< 1.0		+ 22.2	< 23.2	< 14.5	200
598.1	< 1.0		+ 23.4	< 24.4	< 16.6	200
647.8	< 1.0		+ 23.5	< 24.5	< 16.8	200
697.4	< 1.0		+ 25.0	< 26.0	< 20.0	200
747.8	< 1.0		+ 26.2	< 27.2	< 22.9	200
797.7	< 1.0		+ 27.2	< 28.2	< 25.7	200
847.5	< 1.0		+ 27.2	< 28.2	< 25.7	200
897.4	< 1.0		+ 27.2	< 28.2	< 25.7	200
947.2	< 1.0		+ 27.8	< 28.8	< 27.5	200
997.1	< 1.0		+ 28.5	< 29.5	< 29.9	500

=====SUMMARY=====

All data is within limits

=====

Broad-band Antennas were used and both polarizations of emissions were measured.
polarizations at highest reading indicated as:

H -- Horizontal V -- Vertical

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*** INTENTIONAL RADIATOR ***

(2) Measurement of Emissions Within Band Edges.

TEST REFERENCE: FCC Rules Part 15 section 15.235(49.82-49.90 MHz)
TEST CONDITION: Normal (Channel A)
TEST DATE : 1999-10-29

Please see exhibit report Channel A

RESULTS AND NOTES

L: FCC Lower Band Edge.....-> 49.820MHz
H: FCC Higher Band Edge.....-> 49.900MHz
C: Unmodulated carrier at frequency.....-> 49.875MHz
D: No. of dB from unmodulated carrier.....-> 49.50dB

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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(1) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Subpart Section 15.235(49.82-49.90 MHz)

TEST CONDITION : Normal (Channel B)

TEST DATE : 1999-10-29

Emission of RF energy on the carrier frequency -- 49.830 MHz (PEAK 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	
49.90	56.2	H	+	15.0 71.2 3630.8	100000

Emission of RF energy on the carrier frequency -- 49.830 MHz (AVERAGE 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	
49.90	56.1	H	+	15.0 71.1 3589.2	10000

... to be continued

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*** INTENTIONAL RADIATOR ***

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

TEST REFERENCE: FCC Rules Part 15 Section 15.235(49.82-49.90 MHz)

TEST CONDITION : Normal (Channel B)

TEST DATE : 1999-10-29

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	μV/m	
99.7	< 1.0		+ 12.2	< 13.2	< 4.6		150
149.6	< 1.0		+ 9.8	< 10.8	< 3.5		150
199.4	< 1.0		+ 11.5	< 12.5	< 4.2		150
249.3	< 1.0		+ 15.9	< 16.9	< 7.0		200
299.1	< 1.0		+ 17.0	< 18.0	< 8.0		200
348.8	< 1.0		+ 17.2	< 18.2	< 8.1		200
398.6	< 1.0		+ 18.8	< 19.8	< 9.8		200
448.5	< 1.0		+ 19.7	< 20.7	< 10.8		200
498.3	< 1.0		+ 20.6	< 21.6	< 12.0		200
543.1	< 1.0		+ 22.2	< 23.2	< 14.5		200
598.1	< 1.0		+ 23.4	< 24.4	< 16.6		200
647.8	< 1.0		+ 23.5	< 24.5	< 16.8		200
697.4	< 1.0		+ 25.0	< 26.0	< 20.0		200
747.8	< 1.0		+ 26.2	< 27.2	< 22.9		200
797.7	< 1.0		+ 27.2	< 28.2	< 25.7		200
847.5	< 1.0		+ 27.2	< 28.2	< 25.7		200
897.4	< 1.0		+ 27.2	< 28.2	< 25.7		200
947.2	< 1.0		+ 27.8	< 28.8	< 27.5		200
997.1	< 1.0		+ 28.5	< 29.5	< 29.9		500

=====SUMMARY=====

All data is within limits

=====

Broad-band Antennas were used and both polarizations of emissions were measured.
polarizations at highest reading indicated as:

H -- Horizontal V -- Vertical

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*** INTENTIONAL RADIATOR ***

(2) Measurement of Emissions Within Band Edges.

TEST REFERENCE: FCC Rules Part 15 section 15.235(49.82-49.90 MHz)
TEST CONDITION: Normal (Channel B)
TEST DATE : 1999-10-29

Please see exhibit of report - Channel B

RESULTS AND NOTES

L: FCC Lower Band Edge.....-> 49.820MHz
H: FCC Higher Band Edge.....-> 49.900MHz
C: Unmodulated carrier at frequency.....-> 49.830MHz
D: No. of dB from unmodulated carrier.....-> 48.20dB

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

=====

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 15.235.
- (8) Measuring Uncertainty:
The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 300MHz = $\pm 3.7\text{dB}$, 300MHz 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 Equipment Authorization Program. This test itself is not an Approval Test.

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(3) Measurement of Line-Conducted Voltage onto AC Power Line

TEST REFERENCE : FCC Rules Part 15 Subpart B Section 15.107(a)

(Class B)

TEST CONDITION : Normal (Channel A & B)

TEST DATE : 1999-10-26

(1) Between “Live” and “Ground”

Frequency Range of Emission			Maximum Measured Radio Noise		FCC Limit (Class B)
MHz			dB(μV)	μV	μV
0.45	-	0.8	15.62	6.04	250.00
0.8	-	1.6	12.81	4.37	250.00
1.6	-	3.0	0.00	1.00	250.00
3.0	-	5.0	0.00	1.00	250.00
5.0	-	7.0	0.00	1.00	250.00
7.0	-	9.0	0.00	1.00	250.00
9.0	-	11.0	0.00	1.00	250.00
11.0	-	13.0	0.00	1.00	250.00
13.0	-	15.0	0.00	1.00	250.00
15.0	-	17.0	< 32.16	40.55	250.00
17.0	-	19.0	0.00	1.00	250.00
19.0	-	21.0	0.00	1.00	250.00
21.0	-	23.0	0.00	1.00	250.00
23.0	-	25.0	0.00	1.00	250.00
25.0	-	27.0	0.00	1.00	250.00
27.0	-	30.0	0.00	1.00	250.00

- End -

----- SUMMARY -----

All data is within limits

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(3) Measurement of Line-Conducted Voltage onto AC Power Line

TEST REFERENCE : FCC Rules Part 15 Subpart B Section 15.107(a)
(Class B)

TEST CONDITION : Normal (Channel A & B)

TEST DATE : 1999-10-26

(1) Between "Neutral" and "Ground"

Frequency Range of Emission			Maximum Measured Radio Noise		FCC Limit (Class B)
MHz			dB(μV)	μV	μV
0.45	-	0.8	14.92	5.57	250.00
0.8	-	1.6	< 12.81	4.37	250.00
1.6	-	3.0	0.00	1.00	250.00
3.0	-	5.0	0.00	1.00	250.00
5.0	-	7.0	0.00	1.00	250.00
7.0	-	9.0	0.00	1.00	250.00
9.0	-	11.0	0.00	1.00	250.00
11.0	-	13.0	0.00	1.00	250.00
13.0	-	15.0	0.00	1.00	250.00
15.0	-	17.0	32.16	40.55	250.00
17.0	-	19.0	0.00	1.00	250.00
19.0	-	21.0	0.00	1.00	250.00
21.0	-	23.0	0.00	1.00	250.00
23.0	-	25.0	0.00	1.00	250.00
25.0	-	27.0	0.00	1.00	250.00
27.0	-	30.0	0.00	1.00	250.00

- End -

----- SUMMARY -----

All data is within limits

NOTES FOR THE CONDUCTED POWER-LINE MEASUREMENT

- (1) LISN (Line Impedance Stabilization Network) used :
50 μ H LISN in accordance with Section of ANSI C63.4:1992.
- (2) Measurement Instrumentations:
CISPR quasi-peak type radio noise meter (9 KHz - 30 MHz), 6 dB bandwidth set at 9 KHz for measurement between 150 KHz & 30MHz.
- (3) Frequency range scanned :
The frequency range from 450 KHz to 30 MHz had been searched. Reading of the highest emissions relating to the limit were reported as above.
- (4) Configuration of EUT
Connection of equipment and operation conditions were same as those in the Radiation measurement.
- (5) Measurement procedure :
In accordance with the relevant sections of ANSI C63.4:1992 "FCC Methods of measurement of Radio Noise Emissions from Computing Devices".
- (6) Measuring Uncertainty:
The calculated uncertainty for conducted power-line measurement is = ± 2.3 dB.

**** End of document ****