EXHIBIT B

Test Report

Report No.	S0715516
Specifications	FCC Part 15 - Notification
Test Method	ANSI C63.4 1992
Applicant address	23, Lane 2, Jing Wu Road, Taichung, R.O.C.
Applicant	Sekaku Electron Industry Co., Ltd.
Items tested	WIRELESS MICROPHONE RECEIVER
Model No.	WR-102DR
Results	As detailed within this report
Sample received date	04 / 14 /1998 (month / day / year)
Prepared by	project engineer
Authorized by	Vice General Manager (Jacob Lin)
Issue date	(month / day / year)
Modifications	**None**
Tested by	Training Research Co., Ltd.
Office at	2F, No. 571, Chung Hsiao E. Road, See.7, Taipei, Taiwan
Open site at	No. 5-3, Lane 21, Yen Chiu Yuan Rd., See.4, Taipei Taiwan

Conditions of issue:

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★ ***FCC ID : H38WR-102DR***

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Chapter 1 Introduction

Description of EUT :

These products are professionally designed wireless microphone and receiver system made-up of diverse circuit. It can receive one frequency between 174 MHz and 216 MHz. This microphone is worn by a performer and other participants in a program, filming , reporting .....etc.

Connection of EUT :

(1)Connect the EUT's audio output to guitar amplifier by an audio cable .
(2)Plug the adapter into the EUT.
(3)Pull out the antenna vertically .

Test method :

There are three EUTs tested which are operatd at 174.1, 194.6, 214 MHz separately. Turn on the receiver and the speaker . There is a signal generator connected with a field probe , which can transmit the receiving frequency , put near the EUT . The test data also showed three EUT's emission .

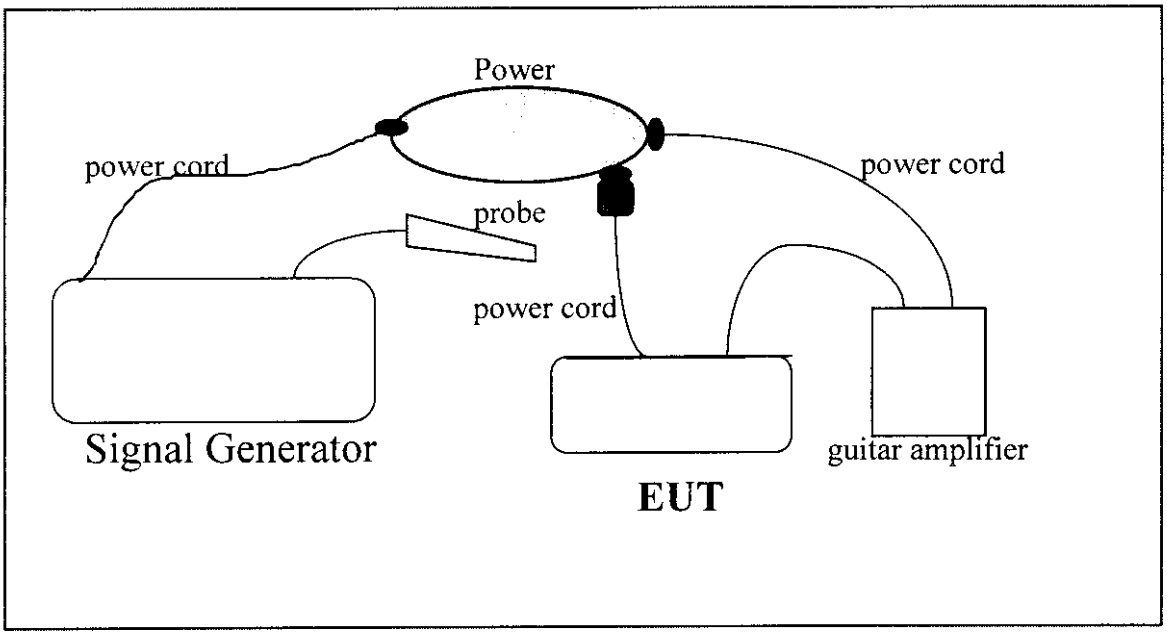
(If the emission is close to the ambience, the resolution BW and view resolution will be reduced and the data will be recorded by detection of maximum hold peak mode.)

Statement of transition provision for compliance with the rules

The EUT receives the signal which only send from the wireless microphone. The EUT won't be influenced by the transition provision , it will be continue to comply with the regulations of the FCC Part 15 . (The relative wireless microphone FCC ID :H38VXM-198TS).

The testing configuration of test setup is showing in the next page.

Configuration of test setup



Connections :

*** The Adapter 120Vac/15Vdc,400 mA, 190 cm long, non-shielded.**
*** The Audio cable dual head 6.3∅, 126 cm, non-shielded.**

List of support equipment

Conducted (Radiated) test :

Guitar Amprifier : Dragon (KIKUTANI MUSIC COL,LTD.)

Model No. : GA-10 (RMS-100)

Power type : 110vac 60Hz

Power code : Non-shield , 1.2m long

Field Probe : HP Field Probe 30MHz~1GHz

Model No. : HP11940A

Serial No. : 2650A03038

Signal Generator : HP 9KHz~4000MHz

Model No. : 8648D

Serial No. : 3613A00117

Power type : 110vac 60Hz

Power cord : Non - Shielded

Chapter 2 Conducted emission test

Test condition and set up :

All the equipment is placed and setup according to the ANSI C63.4 - 1992 . The EUT is assembled on a wooden table which is 80 cm high , is placed 40 cm from the back-wall which is a vertical conducting plane . One LISN is for EUT ,the other LISN is for support equipment. They are all placed on the conductive ground .The EUT's LISN is connected to a line switch box for selecting L1 or L2 ,then connect to a preamplifier and spectrum.

The spectrum scans from 450KHz to 30MHz . Conducted emission levels are detected at max. peak mode . But if the max. peak mode failed ,it will be measured by CISPR's quasi-peak detection mode .

While testing, there is a worst-emission plot printed at peak detection mode ,and there are more than 6 highest emissions relative to limit recorded. The plot is kept as the original data, not included in test report .

List of test Instrument :

				Calibration Date	
Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
Spectrum analyzer	8591EM	H P	3619A00821	08/29/96	08/29/97
LISN (EUT)	3825/2	EMCO	9411-2284	05/15/97	05/15/98
LISN (Support E.)	3825/2	EMCO	9210-2007	05/15/97	05/15/98
Preamplifier	8447F	H P	2944A03706	05/13/97	05/15/98
Line switch box	AC1-003	TRC	---------	05/15/97	05/15/98
Line selector	AC1-002	TRC	---------	05/15/97	05/15/98

The level of confidence of 95% ,the uncertainty of measurement of conducted emission is ± 2.4 dB .

Test Result : Pass (Appendix A)

Chapter 3 Radiated emission test

Test condition and set up :

Pretest : Prior to the final test (OATS test) ,the EUT is placed in a shielded enclosure ,GTEM, and scan from 30MHz to 1GHz.This is done to ensure the radiation exactly emits form the EUT.

Final test : Final radiation measurements is made on a **3 - meter,** open-field test site. The EUT is placed on a nonconductive table which is 0.8 m height, the top surface is 1.0 x 1.5 meter. All the placement is according to ANSI C63.4 - 1992.

The spectrum is examined from 30 MHz to 1000 MHz measured by HP spectrum.

The EMCO whole range Antenna is used to measure frequency from 30 MHz to 1GHz.The final test is used the spectrum HP 8594EM .

Measure more than six top marked frequencies generated form pretest by computer step by step at each frequency . The EUT is rotated 360 degrees, and antenna is raised and lowered from 1 to 4 meter to find the maximum emission levels. The antenna is used with both horizontal and vertical polarization.

Appropriated preamplifier which is made by TRC is used for improving sensitivity and precautions is taken to avoid overloading .The spectrum analyzer's 6dB bandwidth is set to 120 K Hz , and the EUT is measured at quasi-peak mode.

If the emission is close to the frequency band of ambience ,the data will be rechecked by the tester and the corrected data will be written in the test data sheet. If the emission is just within the ambience ,the data from GTEM will be taken as the final data.

List of test Instrument :

				Calibration Date	
Instrument name	Model No.	Brand	Serial No.	Last	Next
Spectrum analyzer	8568B	H P	3004A18617	05/15/97	05/15/98
Quasi-peak Adapter	85650A	H P	2521A00984	05/15/97	05/15/98
RF Pre-selector	85685A	H P	2947A01011	05/15/97	05/15/98
Spectrum analyzer	8594EM	H P	3619A00198	08/07/97	08/07/98
Antenna(30M-2G Hz)	3142	EMCO	9610-1094	10/30/97	10/30/98
Open test side (Antenna ,Amplify, cable calibrated together)				05/15/97	05/15/98

The level of confidence of 95% ,the uncertainty of measurement of radiated emission is ± 4.96 dB .

Test Result : Pass (Appendix B)

Appendix A

Conducted Emission Test Result (Frequency 174.1 MHz)

Testing room : Temperature : 24 ° C Humidity : 50 % RH

Line 1

Frequency (MHz)	*Amplitude (dBuV)*	*Limit (dBuV/m)*	*Margin (dB)*
0.450	38.36	48	-9.64
1.262	21.31	48	-26.69
10.322	17.10	48	-30.9
14.139	17.10	48	-30.9
22.405	18.00	48	-30
22.696	22.08	48	-25.92
23.936	21.18	48	-26.82
25.030	19.55	48	-28.45
27.433	23.40	48	-24.60
29.469	24.89	48	-23.11

Line 2

Frequency (MHz)	*Amplitude (dBuV)*	*Limit (dBuV)*	*Margin (dB)*
0.450	29.29	48	-18.71
1.705	16.26	48	-31.74
2.075	15.81	48	-32.19
9.661	17.30	48	-30.70
22.405	17.64	48	-30.36
22.842	21.86	48	-26.14
24.301	21.89	48	-26.11
25.176	19.52	48	-28.48
***			

(Frequency 194.6 MHz)

Line 1

Frequency (MHz)	*Amplitude (dBuV)*	*Limit (dBuV/m)*	*Margin (dB)*
9.734	16.27	48	-31.73
15.165	17.30	48	-30.70
22.405	18.21	48	-29.79
22.842	18.86	48	-29.14
23.718	20.76	48	-27.24
24.155	20.44	48	-27.56
25.248	17.92	48	-30.08
28.742	18.37	48	-29.63
***			

Line 2

Frequency (MHz)	*Amplitude (dBuV)*	*Limit (dBuV)*	*Margin (dB)*
9.440	16.61	48	-31.39
10.249	16.84	48	-31.16
22.842	18.77	48	-29.23
23.207	21.24	48	-26.76
23.936	20.81	48	-27.19
24.884	18.22	48	-29.78
***			

(Frequency 214 MHz)

Line 1

Frequency (MHz)	*Amplitude (dBuV)*	*Limit (dBuV/m)*	*Margin (dB)*
0.450	38.29	48	-9.71
1.336	20.52	48	-27.48
9.955	17.04	48	-30.96
19.410	17.39	48	-30.61
22.405	17.94	48	-30.06
22.842	20.30	48	-27.70
23.499	21.22	48	-26.78
24.374	21.30	48	-26.70
24.884	17.70	48	-30.30
28.015	18.62	48	-29.38

Line 2

Frequency (MHz)	*Amplitude (dBuV)*	*Limit (dBuV)*	*Margin (dB)*
0.450	31.91	48	-16.09
1.336	17.06	48	-30.94
7.528	15.75	48	-32.25
9.808	16.34	48	-31.66
10.249	17.84	48	-30.16
22.040	18.34	48	-29.66
22.696	20.56	48	-27.44
23.353	20.93	48	-27.07
24.082	20.37	48	-27.63
***			

Appendix B

Radiated Emission Test Result :(Frequency 174.1 MH Horizontal)

Test Conditions:

Testing room : Temperature : 23° C Humidity : 75% RH

Testing site : Temperature : 27 ° C Humidity : 80 % RH

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Class B limit	Margin
MHz	DBuV	m	degree	dB/m	dBuV/m	dBuV/m	dB
152.754	41.20	1	83	-12.30	28.90	43.50	-14.60
163.406	42.55	4	313	-11.65	30.90	43.50	-12.60
170.498	41.41	4	183	-11.35	30.06	43.50	-13.44
181.382	41.61	4	255	-10.90	30.71	43.50	-12.79
224.900	38.24	4	127	-8.58	29.66	46	-16.34
325.016	39.11	1	352	-19.03	20.08	46	-25.92
450.603	48.26	4	15	-16.26	32.01	46	-13.99
***							

Note:

1.Margin = Amplitude - limit, *if margin is minus means under limit.*

2.Corrected Amplitude = Reading Amplitude - Correction Factors

3.Correction factor = Antenna factor + (Cable Loss - Amplitude gain)

(For example : 30MHz correction factor = 15.5 + (-15.26) = 0.24 dB/m)

Radiated Emission Test Result :(Vertical)

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Class B limit	Margin
MHz	dBuV	m	degree	dB/m	dBuV/m	dBuV/m	dB
152.754	45.25	4	307	-12.30	32.95	43.50	-10.55
163.406	40.13	1	0	-11.65	28.48	43.50	-15.02
170.498	49.53	4.01	2	-11.35	38.18	43.50	-5.32
181.382	45.78	4.01	0	-10.90	34.88	43.50	-8.62
224.900	38.78	4.01	170	-8.58	30.20	46	-15.80
325.016	38.52	1	358	-19.03	19.49	46	-26.51
450.603	41.09	4	117	-16.26	24.84	46	-21.16
***							

Radiated Emission Test Result :(Frequency 194.6 MH Horizontal)

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Class B limit	Margin
MHz	dBuV	m	degree	dB/m	dBuV/m	dBuV/m	dB
68.433	40.00	1	125	-14.45	25.55	40.00	-14.45
181.455	39.36	4.01	194	-10.90	28.46	43.50	-15.04
194.728	47.61	4.01	360	-10.19	37.42	43.50	-6.08
205.602	40.93	4.01	219	-9.55	31.38	43.50	-12.12
273.675	38.30	4.01	354	-6.22	32.08	46	-13.92
380.026	37.46	1	346	-17.27	20.19	46	-25.81
410.599	47.82	1	217	-17.03	30.79	46	-15.21
***							

Radiated Emission Test Result :(Frequency 194.6 MH Vertical)

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Class B limit	Margin
MHz	dBuV	m	degree	dB/m	dBuV/m	dBuV/m	dB
68.433	37.99	1	188	-14.45	23.54	40.00	-16.46
181.455	42.20	4.01	17	-10.90	31.30	43.50	-12.20
194.728	45.38	1	65	-10.19	35.19	43.50	-8.31
205.602	50.35	4.01	206	-9.55	40.80	43.50	-2.70
273.675	37.67	1	284	-6.22	31.45	46	-14.55
380.026	37.60	4.01	41	-17.27	20.33	46	-25.67
410.599	47.30	1	200	-17.03	30.27	46	-15.73
***							

Radiated Emission Test Result :(Frequency 214 MH Horizontal)

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Class B limit	Margin
MHz	dBuV	m	degree	dB/m	dBuV/m	dBuV/m	dB
66.318	38.38	4	305	-14.31	24.07	40	-15.93
75.651	43.52	4	284	-14.36	29.16	40	-10.84
151.303	42.40	4	108	-12.41	29.99	43.50	-13.51
226.954	44.82	1	24	-8.44	36.38	46	-9.62
324.326	38.26	1	225	-19.04	19.22	46	-26.78
417.196	42.39	4	355	-16.98	25.41	46	-20.59
453.949	44.58	1	322	-16.13	28.45	46	-17.55
***							

Radiated Emission Test Result :(Frequency 214MHz Vertical)

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Class B limit	Margin
MHz	DBuV	m	degree	dB/m	dBuV/m	dBuV/m	DB
66.318	40.36	1	341	-14.31	26.05	40	-13.95
75.651	41.85	1	53	-14.36	27.49	40	-12.51
151.303	41.23	1	0	-12.41	28.82	43.50	-14.68
226.954	46.06	1	236	-8.44	37.62	46	-8.38
324.326	39.68	1	236	-19.04	20.64	46	-25.36
417.196	41.00	4	148	-16.98	24.02	46	-21.98
453.949	55.87	4	61	-16.13	39.74	46	-6.26
***							

Final statement :

This test report, measurements made by TRC are traceable to the NIST.