FCC PART 74

EUT SCHEMATIC DIAGRAMS

FOR

Guangzhou Bai Yun New Century Electronics Factory

Yong Tai Industrial Area,
Bai Yun, Guangzhou, China

FCC ID: PDMWM-2000

October 26, 2000

This Report Concerns:	Equipment Type:
☒ Original Report	Wireless Microphone – Household Appliances

Test Engineer: Victor Liu

Test Date: October 3, 2000

Reviewed By: John Y. Chan – Engineering Manager

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The *Guangzhou Bai Yun New Century Electronics Factory*, FCC ID *PDMWM-2000 or the* "EUT" as referred to in this report is a microphone which measures 9.25"L with diameter of 1.5".

1.2 Objective

This type approval report is prepared on behalf of *Guangzhou Bai Yun New Century Electronics Factory* in accordance with Part 74 Subpart H of the Federal Communication Commissions rules.

The objective of the manufacturer is to demonstrate compliance with FCC rules for peak output power, modulation characteristics, occupied bandwidth of emission, spurious emission, field strength of spurious radiation, frequency stability and line conduction.

1.3 Related Submittal(s)/Grant(s)

No Related Submittals

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 –1992, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.5 Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Suite 2, Sunnyvale, California, USA.

Test sites at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-1992.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-674 and R-657. The test sites has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, IEC/CISPR 22: 1993, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Data
HP	Spectrum Analyzer	8566B	2610A02165	12/6/00
HP	Spectrum Analyzer	8593B	2919A00242	12/20/00
HP	Amplifier	8349B	2644A02662	12/20/00
HP	Quasi-Peak Adapter	85650A	917059	12/6/00
HP	Amplifier	8447E	1937A01046	12/6/00
A.H. System	Horn Antenna	SAS0200/571	261	12/27/00
Com-Power	Log Periodic Antenna	AL-100	16005	11/2/01
Com-Power	Biconical Antenna	AB-100	14012	11/2/01
Solar Electronics	LISN	8012-50-R-24-BNC	968447	12/28/00
Com-Power	LISN	LI-200	12208	12/20/00
Com-Power	LISN	LI-200	12005	12/20/00
BACL	Data Entry Software	DES1	0001	12/20/00
Rohde & Schwarz	Signal Generator	SMIQ03B	1125.5555.03	7/10/2002
Rohde & Schwarz	I/Q Modulation Generator	AMIQ	1110.2003.02	8/10/2002

1.7 Equipment Under Test (EUT)

Manufacturer	Description	Model	Serial Number	FCC ID
Guangzhou Bai Yun New Century Electronics Factory	Microphone	WM-2000	None	PDMWM-2000

Appendix A – AUTHORIZATION LETTER

NEW CENTURY ELECTRONICS FTY.

July 22, 2000

FEDERAL COMMUNICATIONS COMMISSIONS
Authorization and Evaluation Division
7435 Oakland Mills Road0
Columbia, MD 21046

Subject: Agent Authorization

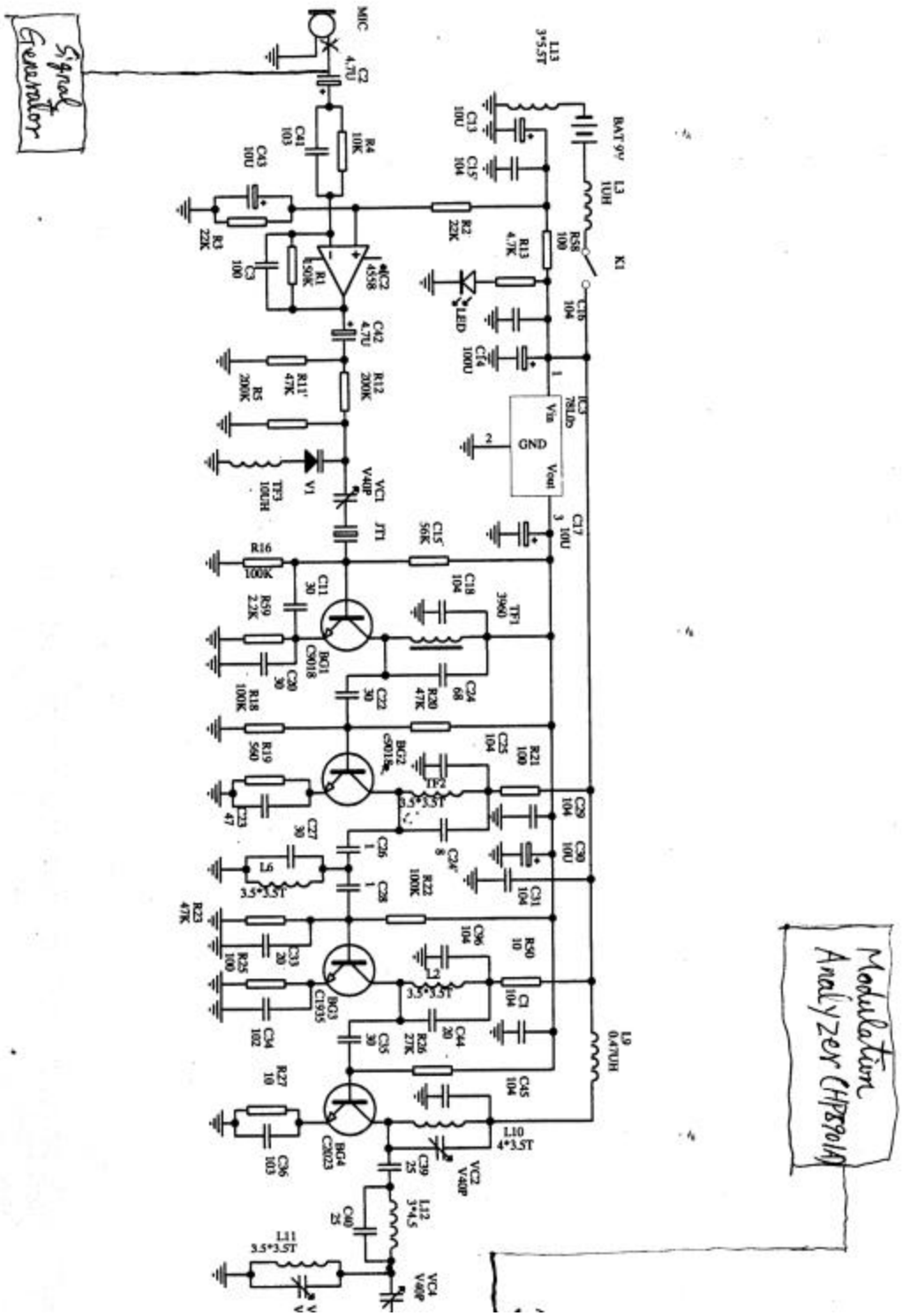
To whom it may concern:

NEW CENTURY ELECTRONICS FTY , hereby authorizes Bay Area Compliance Laboratory Corporation to act on its behalf in all maters relating to application for equipment authorization, including the signing of all documents relating to these matters. All acts carried out by Bay Area Compliance Laboratory Corporation on our behalf shall have the same effect as our own action.

Sincerely yours,

Xiaohua Chen(签名)

APPENDIX B – SCHEMATIC DIAGRAMS


Signal Generator
Modulation Analyzer (HP8901A)
MIC
BAT 9V
LED
GND
Vin
Vout
7812b
K1
L3 1UH
L13 3*5.5T
L9 0.47UH
L10 4*3.5T
L11 3.5*3.5T
L12 3*4.5
L5 3.5*3.5T
TF1 3960
TF2 3.5*3.5T
TF3 10UH
VC1 V40P
VC2 V40P
VC4 V40P
BG1 C9018
BG2 C9018
BG3 C1815
BG4 C2023
JT1
IC2 4558
IC3 78L05
R1 150K
R2 22K
R3 22K
R4 10K
R5 200K
R11 47K
R12 200K
R13 4.7K
R16 100K
R18 100K
R19 560
R20 47K
R21 100
R22 100K
R23 47K
R25 100
R26 27K
R27 10
R30 47K
R50 10
R58 100
R59 2.2K
C1 104
C2 4.7U
C3 100
C11 30
C13 10U
C14 100U
C15 104
C15' 56K
C16 104
C17 10U
C19 104
C20 104
C22 30
C23 47
C24 68
C25 104
C26 1
C27 30
C28 1
C29 104
C30 10U
C31 104
C33 20
C34 102
C35 30
C36 103
C38 25
C39 25
C41 103
C42 4.7U
C43 10U
C44 20
C45 104
C96 104
R11' 47K

BAI YUN NEW CENTURY ELECTRONICS FACTORY GUANZHOU

WM-2000 Transmitter LIST | FILE NUMBER: BM-0540-01 | The A version the 1th page

number	code	name	specification	position	quantity	remarks	change
1		circuit board	112×25mm	WM-2000A1	1		
2	RT1G151J	resistance	RT-0.0625-150Ω±5%	R18	1		
3	RT1G102J	resistance	RT-0.0625-10KΩ±5%	R24	1		
4	RT1G103J	resistance	RT-0.0625-15KΩ±5%	R23	1	15K use in green MIC	
	RT1G153J		RT-0.0625-10KΩ±5%			10K use in red MIC	
5	RT1G223J	resistance	RT-0.0625-22KΩ±5%	R22,R26	2		
6	RT1G473J	resistance	RT-0.0625-47KΩ±5%	R27,R20	2		
7	RT1G104J	resistance	RT-0.0625-56KΩ±5%	R1	1		
8	RT1G104J	resistance	RT-0.0625-100KΩ±5%	R21,R25	2		
9	RT1G104J	resistance	RT-0.0625-1MΩ±5%	R18	1		
10	CC505R0K	ceramic C	CC-50-5P±10%	C25	1		
11	CC50100K	ceramic C	CC-50-10P±10%	C10	1		
12	CC50150K	ceramic C	CC-50-15P±10%	C13	1	use in red LED	
13	CC50180K	ceramic C	CC-50-18P±11%	C13	1	use in green LED	
14	CC50180K	ceramic C	CC-50-18P±10%	C16	1		
15	CC50250K	ceramic C	CC-50-25P±11%	C15	1		
16	CC50350K	ceramic C	CC-50-35P±10%	C26	1		
17	CC50330K	ceramic C	CC-50-39P±11%	C9	1		
18	CC50400K	ceramic C	CC-50-40P±10%	C6	1		
19	CC50820K	ceramic C	CC-50-102P±10%	C12,C20	2		
20	CC50101K	ceramic C	CC-50-100P±10%	C30	1		
21	CC50502Z	ceramic C	CC-50-502P+80%-20%	C21	1		
22	CC50104Z	ceramic C	CC-50-104P+80%-20%	C4,C14,C19,C22,C23,C29	6		
23		modulate C	V30P	VC1	1	can be instead of 20P,40P	
24	CD10475M	electrolytic C	CD-10-4.7μF±20%	C5	1	diameter≤φ5mm	
25	CD10106M	electrolytic C	CD-10-10μF±20%	C28,C24,C18	3	diameter≤φ5mm	
26	CD10107M	electrolytic C	CD-10-100μF±20%	C17	1		
27		LED	φ3mm(red or green)		1	on NOTE 2	
28		transistor	9014	BG3	1		
29		transistor	9018	BG1,BG2,BG4	3	KEC	
30		IC	78L05	IC2	1		
31	LG24R47M	hue circle inductance	LGA0204-R47M	L9,JP4	2		
32	LG242R2M	hue circle inductance	LGA0204-2R2M	R12	1		
33		hollow yoke	SC-0.6×3×5.5T-AW	L1,C5	2		
34		hollow yoke	SC-0.6×3×9.5T-AW	L6	1		
35		hollow yoke	SC-0.6×4×3.5T-AW	L2,L3	2		
36		hollow yoke	SC-0.6×3×4.5T-AW	L4	1	use in red MIC	
37		hollow yoke	SC-0.6×3×3.5T-AW	L4	1	use in green MIC	
38		MidF transforme	SW1	TF1	1		
39		switch	SS22H02-G6	K2	1		
40		jumper wires	Φ0.5×5mm	JP1,JP2	1		
41		jumper wires	Φ0.5×5mm	JP3	1		

change	quantity	number	sign	date	change	quantity	number	sign	date	producer		2000.8.1
										examinant		
										ratifier		

BAI YUN NEW CENTURY ELECTRONICS FACTORY GUANZHOU

WM-2000 Transmiter LIST | FILE NUMBERBM-0540-01 | The A version the 2th page

number	code	name	specification	position	quantity	remarks	change
1		jumper wires	Φ0.5×30mm	L5	3		
2	CL-0010-04	MIC'S core	TB mic's coreMS-100F		1	As WM-308	
3		pin pedestal	2.54×2P	CZ1	1		
4	TX-0540-02	antenna tole			1	diagram	
5	WJ-0540-01	adorn ring	red or green		1	diagram and NOTE 3	
6	WJ-0540-02	hue circle			1	diagram	
7	WJ-0540-05	battery tole			2	diagram	
8	XL-0540-01	adorn tole			1	diagram	
9		sponge sheath			1	as WM-388	
10		tube's module			1 set	on NOTE 1	
11	WJ-0190-01	net head			1	As WM-08A and paint bottom	
NOTE 1:							
12		Mic tube			1		
13		PCB underlay			1		
14		MIC pedestal			1	As NC-861	
15		Switch knob			1		
16		ON / OFF tole			1		
17		antenna(inner contact)			1		
18		tube's tail			1		
19							

NOTE2:
115MHz MICROPHONE IN RED, 122MHz MICROPHONE IN GREEN.

NOTE 3:
115MHz MICROPHONE IN RED, 122MHzMICROPHONE IN GREEN.

change	quantity	number	sign	date	change	quantity	number	sign	date		
										producer	2000.8.17
										examinant	2000.8.8
										ratifier	