

国质监认字 002 号



(2002) 量认(国)字 (V2171) 号



No. L0095

Test Report No.:
FCC2004-0004

TEST REPORT

EUT : **Master Box of Wireless 2-way
Intelligent Control System**

MODEL/TYPE : **GKB7ME-3**

CLIENT : **GUANGZHOU GKB ELECTRIC CO., LTD.**

FCC ID : **SDGGKB7ME-3**

Classification of Test : **COMMISSION TEST**

Guangzhou Testing & Inspection Institute
for Household Electrical Appliances
广州家用电器检测所 GTIHEA
国家家用电器质量监督检验中心

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Guangzhou Testing & Inspection Institute for Household Electrical Appliances

GTIHEA

Test Report No. FCC2004-0004		Page 2 of 36	
Client	Name: GUANGZHOU GKB ELECTRIC CO., LTD. Address: No. 98, Hedong Rd., Fangcun District, Guangzhou, Guangdong Province, P. R. China		
Manufacturer	Name: GUANGZHOU GKB ELECTRIC CO., LTD. Address: No. 98, Hedong Rd., Fangcun District, Guangzhou, Guangdong Province, P. R. China		
Equipment under Test	Name : Master Box of Wireless 2-way Intelligent Control System Model/ type : GKB7ME-3 FCC ID : SDGGKB7ME-3 Trade mark : GKB Serial no. : — Sampling : —		
Date of Receipt.	2004.08.15	Date of Testing	2004.08.15-2004.09.07
Test Specification		Test Result	
FCC PART 15 Subpart C, 2004		PASS	
Evaluation of Test Result	This device complies with the requirements of Federal Communications Commission (FCC) Rules and Regulations Part 15. Issue Date: <u>Nov. 04, 2004</u>		
Tested by: Chen Jing Name Signature Reviewed by: Wang Xiaoyan Name Signature Approved by: Yang Chunrong Name Signature			
Other Aspects: NONE			
Abbreviations: OK, Pass = passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			
This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of GTIHEA .			

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1. General Product Information

1.1 Product Function

Refer to the operation instruction.

1.2 Ratings and System Details

Power supply	110VAC/60Hz 12VDC, 40mA (adaptor)
Max Load	/
Frequency	433.9MHz
Modulation type	Pulse modulation
Power wire	NONE
Interconnecting wires	NONE
Antenna type	Internal permanently attached antenna
Classification	Intentional radiator

1.3 Independent Operation Modes

The basic operation modes are:

1. Bi-directional transmission (two-way transmission)

Note: Through the function of bi-directional transmission, the EUT can get the information about the working state of the controlled loads (for example, electrical appliances) and shows the state of all the loads. The EUT transmits the RF signal to change the working state of the controlled electrical appliances. This kind of function is realized by pressing the buttons on the panel.

2. Stand by

1.4 Submitted Documents

Operating Instructions and Installation Manual
Rating Label
Wiring Diagram
Construction Drawing
Photographs of EUT
Material Bill (Parts List)

2. Test Sites

2.1 Test Facilities

The tests and measurements refer to this report were performed by EMC testing Lab. of Guangzhou Testing & Inspection Institute for Household Electric Appliances.

Add. : 204 Xingang West Road Guangzhou 510302 P.R. China
Telephone : 86-20-84451692
Fax : 86-20-84183160

The EMC testing laboratory has been recognized by China National Commission for Laboratory Assessment, and authorized by Nemko of Norway since 1997(Aut. No. ELA139), and authorized by TÜV Rheinland of Germany since 1998(Aut. No. 9868976-1216), and registered by FCC since 2001(Registered No. 102430).

2.2 Description of Non-standard Method and Deviations

The testing and measurement method used in this report are all the standard method applied, no any non-standard method and deviations from the used standard were used.

2.3 List of Test and Measurement Instruments

Refer to **Appendix A**.

3. Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2 Physical Configuration for Testing

Refer to relative descriptions in this test report.

3.3 Test Operation Mode and Test Software

Refer to **Test Setup**.

3.4 Special Accessories and Auxiliary Equipment

None.

3.5 Countermeasures to Achieve EMC Compliance

None.

4. Emission test results (intentional radiator)

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4:2003 for FCC Certification.

Test Standards and Results Summary			
Test Condition	Test Requirement	Test Method	Test Result
			Pass Failed N/A
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	☒ ☐ ☐
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.209	ANSI C63.4:2003	☒ ☐ ☐
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.231(a)	ANSI C63.4:2003	☒ ☐ ☐

Note: N/A - Not Applicable

According to FCC 47CFR 15.231(a), the following conditions shall be met to comply with the provisions for this periodic operation:

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

The EUT is to transmit RF signal while each button is being pressed and ceases transmission almost immediately upon being released. The transmitting time and the receiving time are within not more than 5 seconds.

4.1 Conducted emission (0.15MHz~30MHz)

RESULT : Pass

Test procedure : FCC 15.207

Frequency range : 0.15MHz ~30MHz

Test Site : Shielding Room (Registration Number: 102430)

Test Setup:

The GRP (Ground Reference Plate) is 2m×3m.

The EUT was placed on a wooden table, 40cm high, standing on the GRP.

The EUT was kept more than 0.8m from any other earthed conducting surface.

Test Results:

Test Conditions

Ambient Temperature : 25 °C/ 25 °C (Before Test/After Test);
 Relative Humidity : 60 %/ 60 % (Before Test/After Test);
 Power Supply : 110VAC/60Hz ;
 Operating Mode of the EUT : Bi-direction transmission

RF Terminal Disturbance Voltage							
Port: AC Power							
Freq. (MHz)	QP Reading (dBμV)	Phase	QP Limits (dBμV)	Freq. (MHz)	AV Reading (dBμV)	Phase	AV Limits (dBμV)
0.318	33.5	L1	59.8	/	/	/	/
0.650	35.4	L1	56.0	/	/	/	/
1.318	41.6	L1	56.0	/	/	/	/
2.630	31.9	L1	56.0	/	/	/	/
4.237	20.1	L1	56.0	/	/	/	/
/	/	/	/	/	/	/	/
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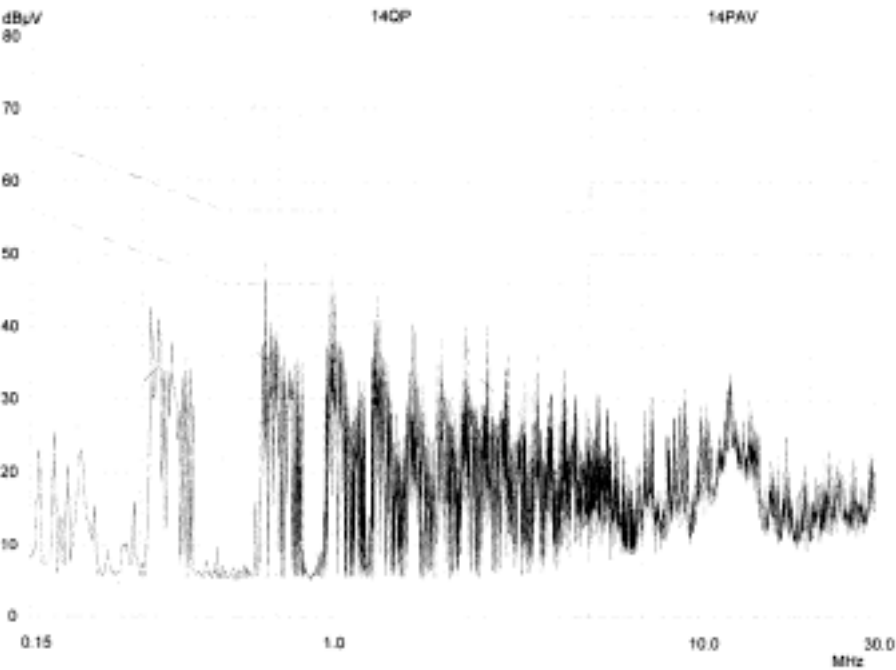
Note: Where PK reading is less than relevant limit decrease 25dB, the QP reading and AV reading will not be recorded.

Where QP reading is less than relevant AV limit, the AV reading will not be measured.

Calculated measurement uncertainty: 0.15~30MHz 2.5dB

Scan Graph and Scan setting

Scan Settings		(1 Range)		Receiver Settings					
Frequencies									
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
150kHz	30MHz	3.9063kHz	5kHz	PK	2msec	10 dB	OFF	60dB	
Final Measurement:		Detector:	X QP						
		Meas Time:	1sec						
		Subranges:	8						
		Acc Margin:	25 dB						



Test Results:

Test Conditions

Ambient Temperature : 25 °C/ 25 °C (Before Test/After Test);
 Relative Humidity : 60 %/ 60 % (Before Test/After Test);
 Power Supply : 110VAC/60Hz ;
 Operating Mode of the EUT : Stand by

RF Terminal Disturbance Voltage							
Port: AC Power							
Freq. (MHz)	QP Reading (dBμV)	Phase	QP Limits (dBμV)	Freq. (MHz)	AV Reading (dBμV)	Phase	AV Limits (dBμV)
/	/	/	/	/	/	/	/
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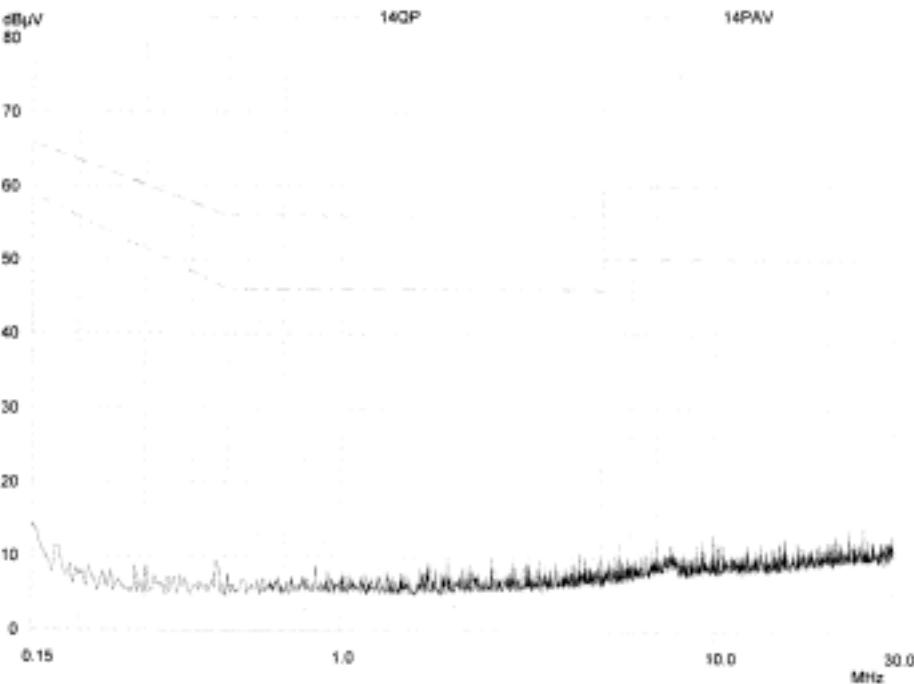
Note: Where PK reading is less than relevant limit decrease 25dB, the QP reading and AV reading will not be recorded.

Where QP reading is less than relevant AV limit, the AV reading will not be measured.

Calculated measurement uncertainty: 0.15~30MHz 2.5dB

Scan Graph and Scan Settings

Scan Settings		(1 Range)		Receiver Settings					
Frequencies									
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
150kHz	30MHz	3.9063kHz	9kHz	PK	2msec	10 dB	OFF	60dB	
Prescan Measurement:		Detector:	X PK						
		Meas Time:	see scan settings						
		Subranges:	8						
		Acc Margin:	25 dB						



4.2 Radiated emission (Above 30 MHz)

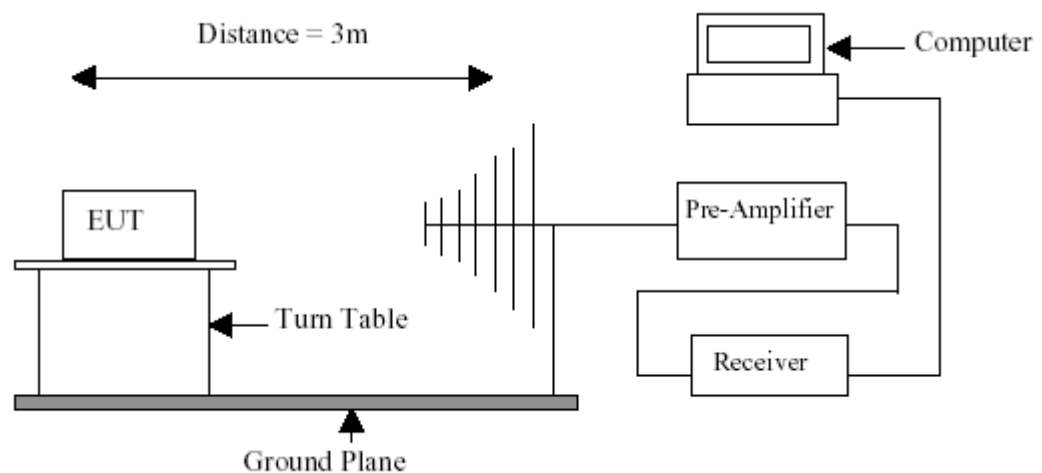
RESULT : **Pass**

Test procedure : ANSI C63.4 : 2003
 Frequency range : 30 MHz ~ 5GHz
 Limits : FCC PART 15, Subpart C, Section 15.209
 FCC PART 15, Subpart C, Section 15.231(a)
 Test Site : 3m Anechoic Chamber (Registration Number: 102430)

Test Method:

The EUT was placed on a wooden turntable, which could rotate from 0° to 360°, 0.8m high above the ground, at a distance of 3m in anechoic chamber, from the receiving broadband antenna, which was mounted on the antenna tower. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results below.

Test Setup:



Transducer (partial)

3m, 26MHz~2GHz

Freq. (MHz)	3141 (3m) Value (dB)	Cable Value (dB)	Total Value (dB)
26	12.0	0.30	12.30
30	8.7	0.35	9.05
60	6.7	0.70	7.40
100	9.8	1.14	10.94
150	9.4	1.38	10.78
200	10.1	1.62	11.72
250	12.1	1.96	14.06
300	14.5	1.96	16.46
350	15.7	2.36	18.06
400	16.1	2.68	18.78
450	16.9	2.79	19.69
500	17.7	2.87	20.57
550	18.8	3.21	22.01
600	19.9	3.55	23.45
650	20.5	3.58	24.08
700	21.8	3.54	25.34
750	21.5	3.89	25.39
800	22.1	4.11	26.21
850	22.4	4.06	26.46
900	22.9	4.20	27.10
950	23.0	4.50	27.50
1000	24.1	4.56	28.66
1300	26.2	5.00	31.20
1700	27.2	6.00	33.20
2000	30.3	7.00	37.30

3m, 1GHz-18GHz

Freq. (MHz)	3115 (3m) Value (dB)	Cable) Value (dB)	Total Value (dB)
1000	4.36	1.00	5.36
1500	5.71	1.15	6.86
2000	9.33	1.30	10.63
3000	10.62	1.50	12.12
4000	12.32	1.80	14.12
5000	11.86	1.90	13.76
6000	13.06	2.10	15.16
7000	14.58	2.20	16.78
8000	14.23	2.55	18.88
9000	17.98	2.70	20.68
10000	17.58	3.10	21.85
11000	18.75	3.30	22.05
12000	18.71	3.40	22.11
13000	19.81	3.50	23.31
14000	20.91	3.60	24.51
15000	19.71	3.70	23.41
16000	19.51	3.80	23.31
17000	23.81	3.90	27.71
18000	28.21	4.00	32.21

Note: Correction Factor included Antenna Factor and Cable Attenuation.

(1). Radiated Emissions limits, additional provisions [FCC 47 CFR 15.231(a)]:

Frequency Range. (MHz)	Field Strength of Fundamental (μV/m)	Field Strength of Spurious Emissions (μV/m)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750**	125 to 375**
174-260	3750	375
260-470	3750 to 12500**	375 to 1250**
Above 470	12500	1250

Note: ** linear interpolations

Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strengths is as follows: for 433.9MHz, $\mu\text{V/m at 3 meters} = 41.6667 \times (F) - 7083.3333 = 10995.8 (\mu\text{V/m})$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits a higher field strength.

The field strength of emissions appearing within restricted bands of operation shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions.

Results:

Test Conditions:

Ambient Temperature : 25 °C/ 25 °C (Before Test/After Test);
 Relative Humidity : 60 %/ 60 % (Before Test/After Test);
 Power Supply : 110VAC/60Hz ;
 Operating Mode of the EUT : Bi-directional transmission.

Field Strength of Fundamental Emissions (Peak Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
433.9	H	71.9	101	109958
433.9	V	71.8	101	109958

Field Strength of Spurious Emissions (Peak Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
867.8	H	58.4	81	10995.8
1301.7	H	54.8	74	5000
1735.6	H	42.3	81	10995.8
2169.5	H	34.8	81	10995.8
2603.4	H	31.5	81	10995.8
3037.3	H	39.5	81	10995.8
1301.7	V	48.1	74	5000
1735.6	V	35.4	81	10995.8
2169.5	V	28.6	81	10995.8
2603.4	V	28.5	81	10995.8
3037.3	V	32.7	81	10995.8

Field Strength of Fundamental Emissions (Average Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
433.9	H	65.8	81	10995.8
433.9	V	65.7	81	10995.8

Field Strength of Spurious Emissions (Average Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
867.8	H	52.3	61	1099.6
1301.7	H	48.7	54	500
1735.6	H	36.2	61	1099.6
2169.5	H	28.7	61	1099.6
2603.4	H	25.4	61	1099.6
3037.3	H	33.4	61	1099.6
1301.7	V	42.0	54	500
1735.6	V	29.3	61	1099.6
2169.5	V	22.5	61	1099.6
2603.4	V	22.4	61	1099.6
3037.3	V	26.6	61	1099.6

Remarks:

- Adjusted by Duty Cycle = -6.1dB
- FCC limit for Average Measurement = $41.6667 \times (F) - 7083.3333 = 10995.8$ (μV/m)
- Measurements were made using a peak detector.
- Calculated measurement uncertainty: 30MHz to 1GHz 5.9dB

Test Results:

Test Conditions:

Ambient Temperature : 25 °C/ 25 °C (Before Test/After Test);
 Relative Humidity : 60 %/ 60 % (Before Test/After Test);
 Power Supply : 110VAC/60Hz ;
 Operating Mode of the EUT : Stand by.

Field Strength of Fundamental Emissions (Peak Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
433.9	H	27.8	101	109958

Field Strength of Spurious Emissions (Peak Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
/	H/V	/	/	/

Field Strength of Fundamental Emissions (Average Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
433.9	H	21.7	81	10995.8

Field Strength of Spurious Emissions (Average Value)				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
/	H/V	/	/	/

Remarks:

- Adjusted by Duty Cycle = -6.1dB
- FCC limit for Average Measurement = $41.6667 \times (F) - 7083.3333 = 10995.8$ (μV/m)
- Measurements were made using a peak detector.
- Calculated measurement uncertainty: 30MHz to 1GHz 5.9dB

(2). Radiated Emissions limits, general requirements [FCC 47 CFR 15.209]:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1GHz are based on measurements employing an average detector.

Results:

Test Conditions:

Ambient Temperature : 25 °C/ 25 °C (Before Test/After Test);
 Relative Humidity : 60 %/ 60 % (Before Test/After Test);
 Power Supply : 110VAC/60Hz ;
 Operating Mode of the EUT : Bi-directional transmission.

Radiated Emissions Quasi-peak				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
44.6	V	32.2	40	100
>960.0	H/V	<30.0	54	500

Test Conditions:

Ambient Temperature : 25 °C/ 25 °C (Before Test/After Test);
 Relative Humidity : 60 %/ 60 % (Before Test/After Test);
 Power Supply : 110VAC/60Hz ;
 Operating Mode of the EUT : Stand-by

Radiated Emissions Quasi-peak				
Freq. (MHz)	Antenna Polarity (V/H)	Result dB(μV/m)	Limits dB(μV/m)	Limits (μV/m)
44.6	V	32.2	40	100
>960.0	H/V	<30.0	54	500

Calculated measurement uncertainty: 30MHz to 1GHz 5.9dB

Attachment:
Duty Cycle Correction

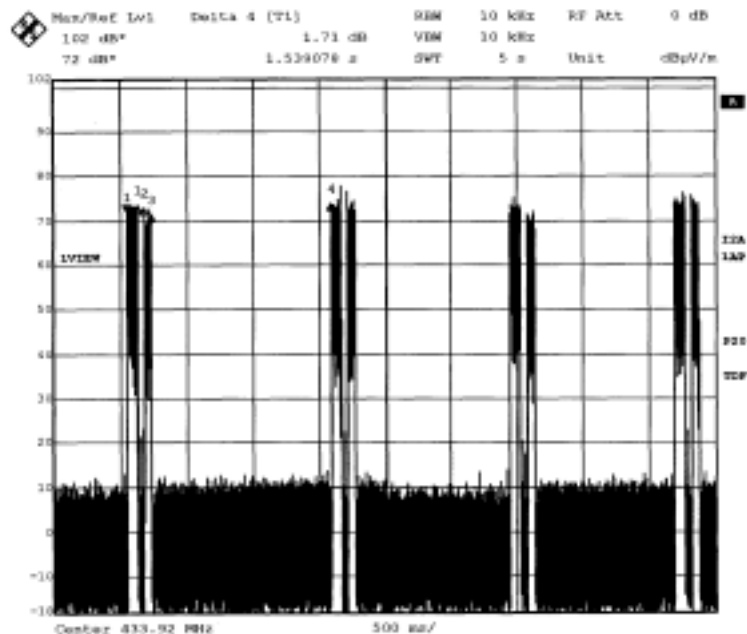
Duty Cycle Correction (Worst case): $20\log(T_{\text{pulse}} / T_{100\text{ms}})$

The average duty cycle correction factor = $((2.36\text{ms} \times 4 + 250\mu\text{s} \times 160) / 100\text{ms}) = -6.1\text{dB}$

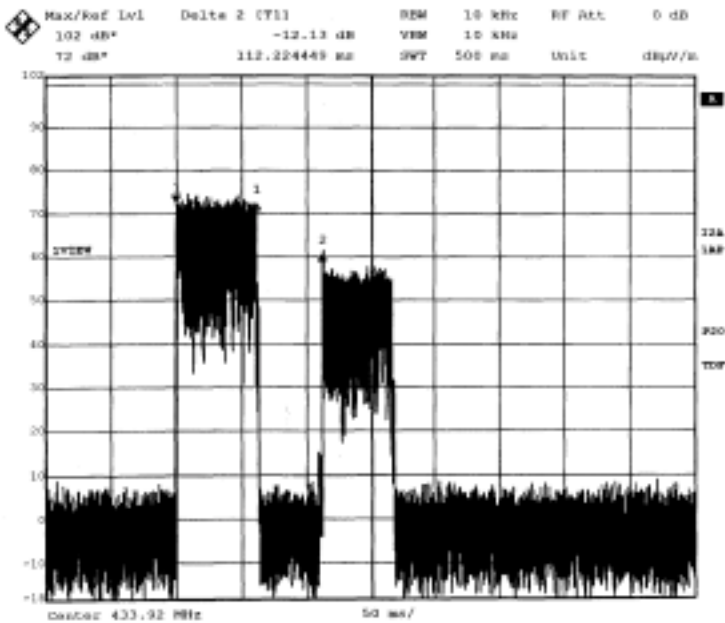
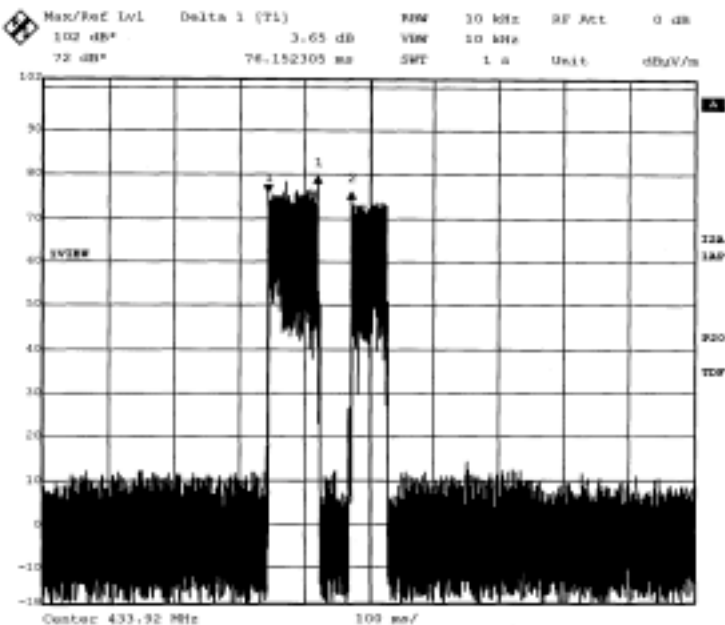
Note: According to ANSI C63.4, when the pulse train exceeds 100ms, calculate the duty cycle by averaging the sum of the pulsewidths over the 100ms width with the highest average value.

For the EUT, One pulse train includes one low pulse (50.20ms) and one high pulse (76.15ms) (Graph: B). This high pulse (76.15ms) includes 4 long (2.36ms) pulses and about 160 short (250μs) pulses, see graph C and D.

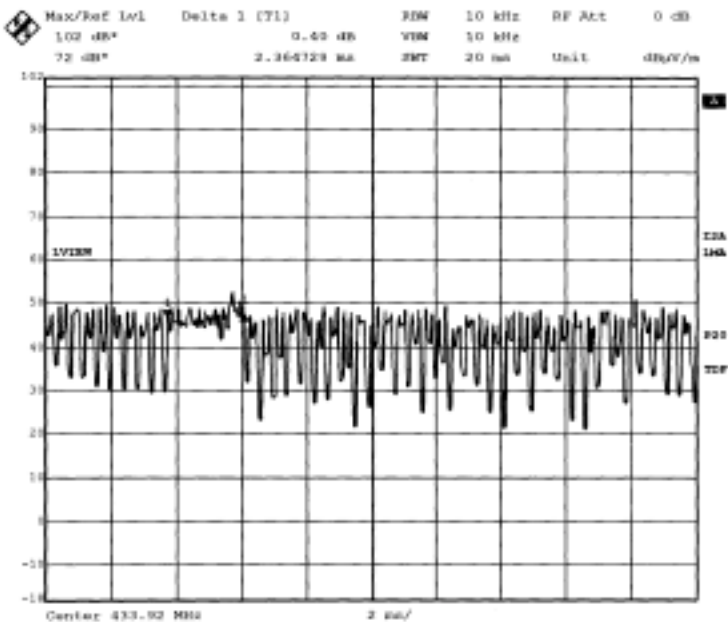
Graph A: Pulse Train (worst case)



Graph: B, the length of the pulse is about 76.15ms

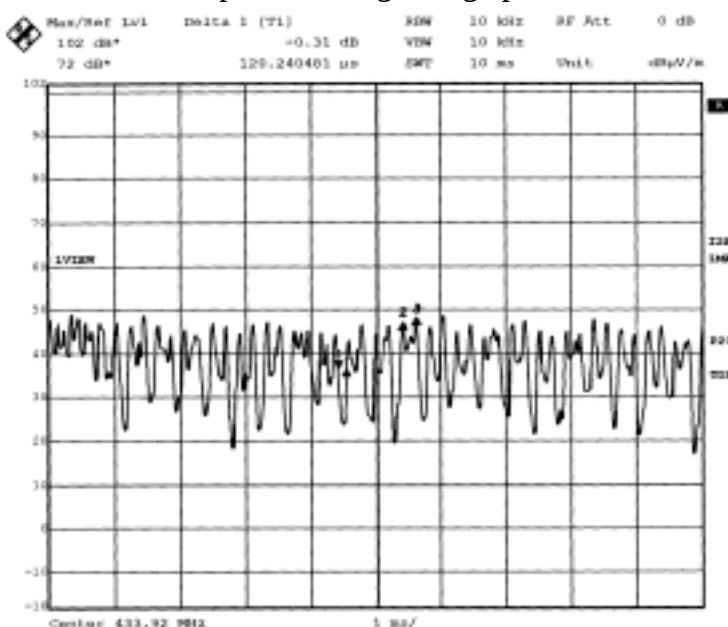


Graph: C, Enlarged High pulse



Note: the number of the long pulses is 4.

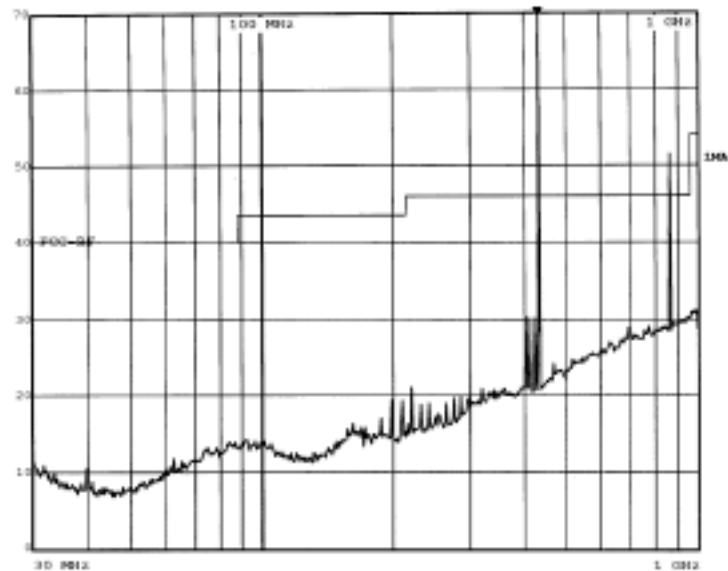
Graph: D, Enlarged High pulse



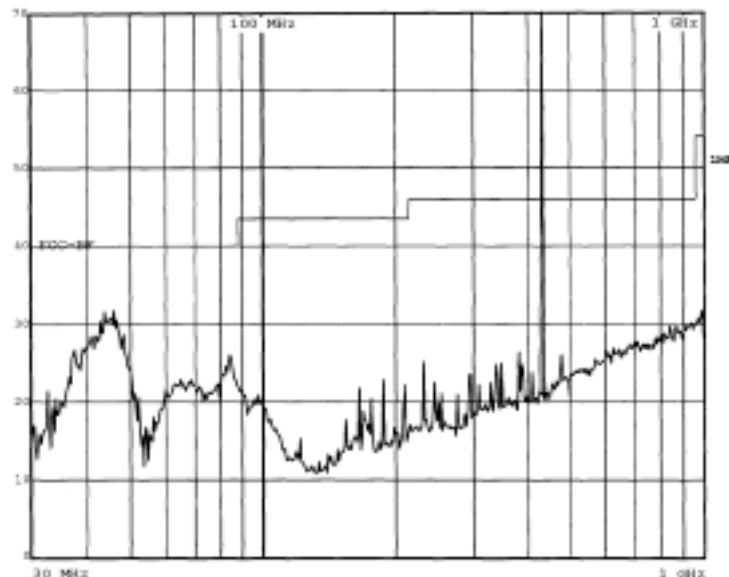
Note: the number of the short pulses is 160.

Scan Graph and Scan Settings

Bi-directional transmission (Horizontal)

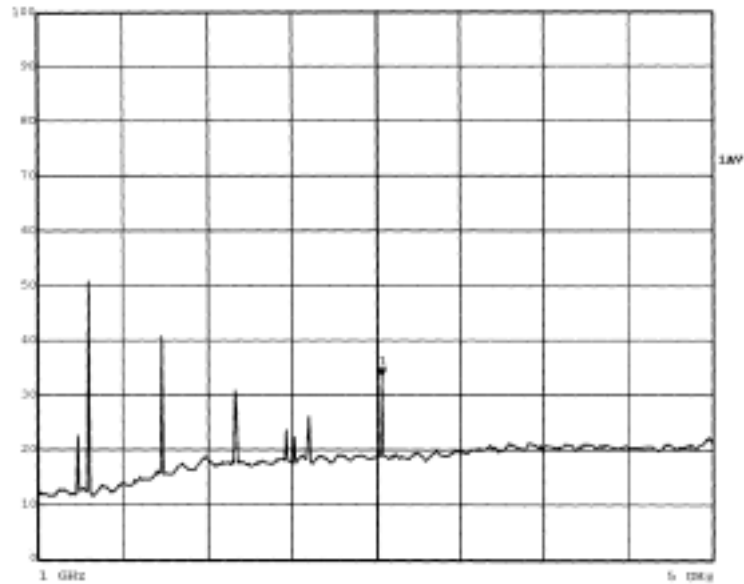


Bi-directional transmission (Vertical)

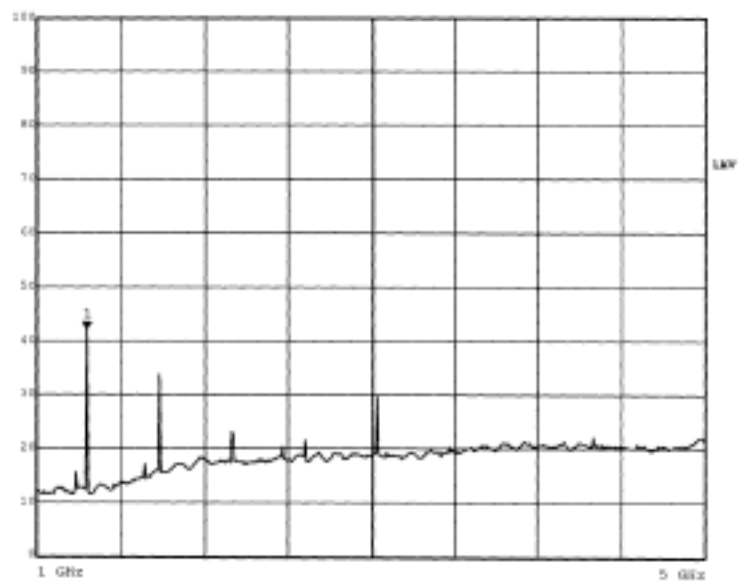


Scan Graph and Scan Settings

Bi-directional transmission (Horizontal)

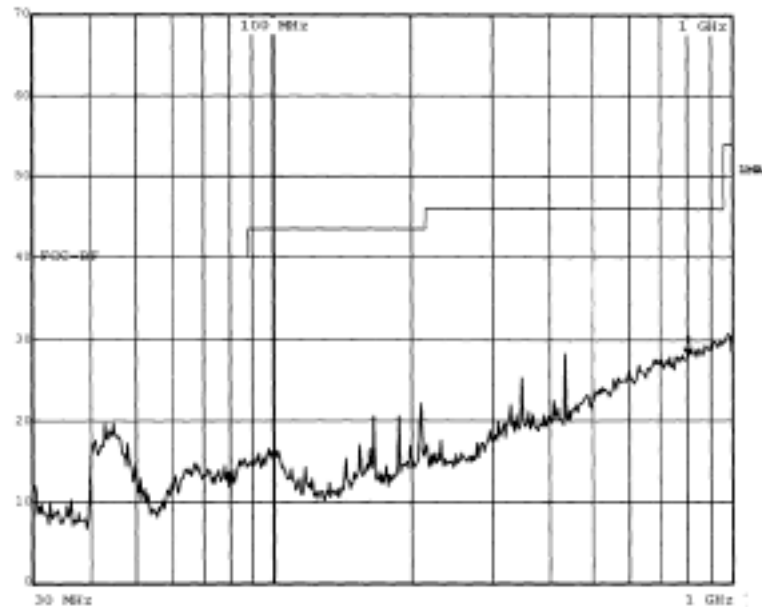


Bi-directional transmission (Vertical)

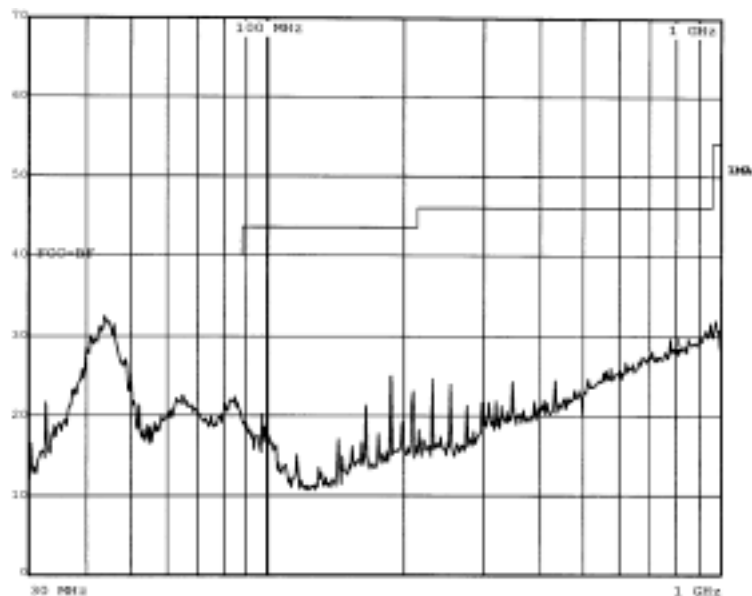


Scan Graph and Scan Settings

Stand-by (Horizontal)

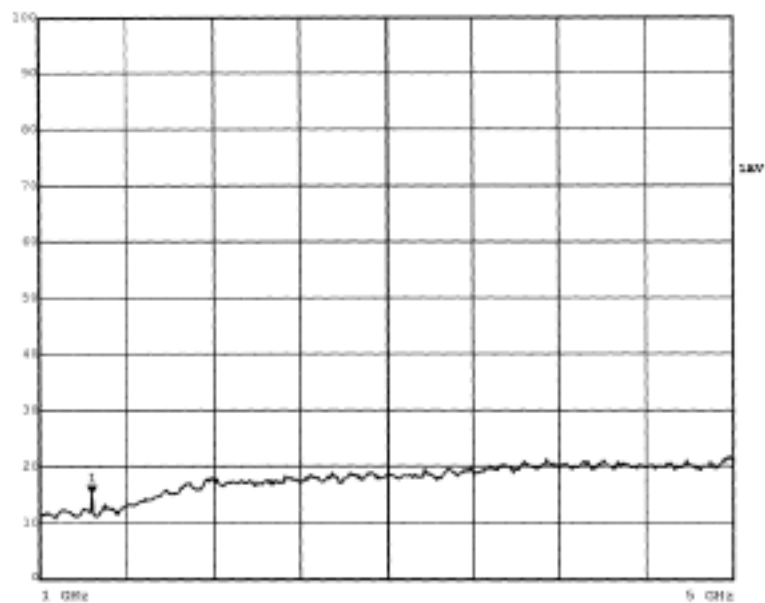


Stand-by (Vertical)

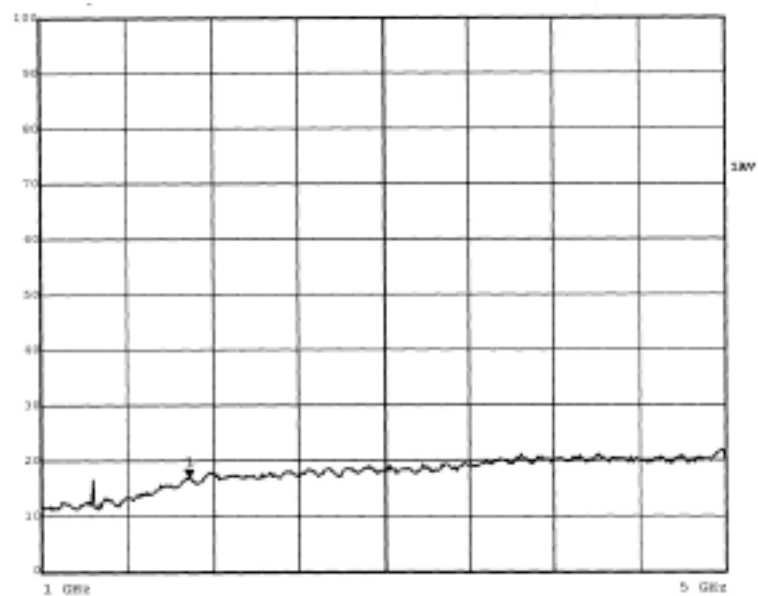


Scan Graph and Scan Settings

Stand-by (Horizontal)



Stand-by (Vertical)



4.3 20dB Bandwidth of Fundamental Emission

RESULT : **Pass**

Test procedure : ANSI C63.4 : 2003
Limits : FCC PART 15, Subpart C, Section 15.231(a)
Test Site : 3m Anechoic Chamber (Registration Number: 102430)

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 4.2 in this test report.

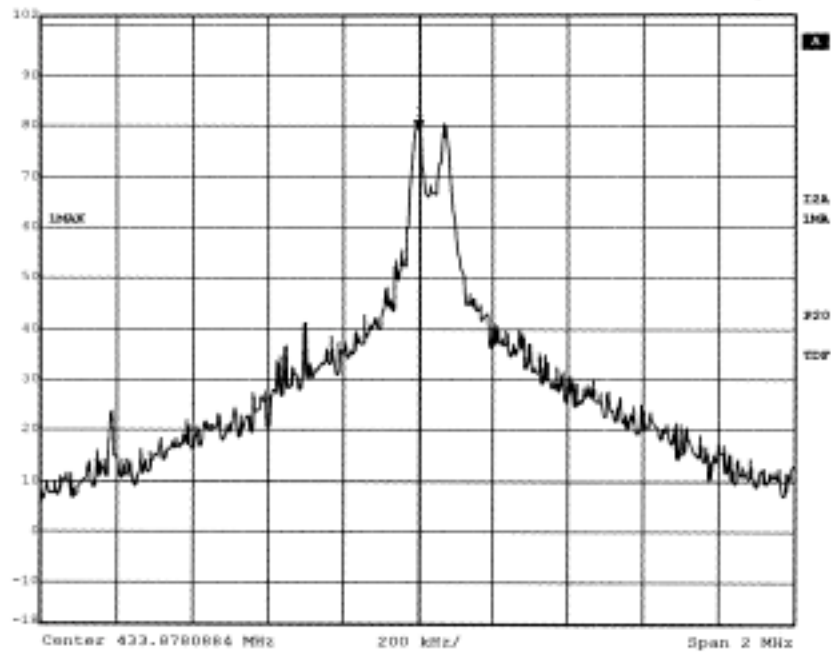
Results:

Test Conditions:

Ambient Temperature : 25 °C / 25 °C (Before Test/After Test);
Relative Humidity : 60 % / 60 % (Before Test/After Test);
Power Supply : 110VAC/60Hz ;
Operating Mode of the EUT : Bi-directional transmission.

Frequency Range [MHz]	20dB Bandwidth [KHz]	FCC Limits [MHz]	Conclusion
433.9	183.6	$0.25\% \times 433.9\text{MHz}$ = 1084.75 kHz	No wider than The FCC limits

Scan Graph and Scan Settings



5. Photographs & Nameplates of the EUT

5.1 Outlook:

Front View of the EUT



Rear View of the EUT



Outlook of the adaptor



5.2 Structure of internal wires:

Inner Circuit Top View



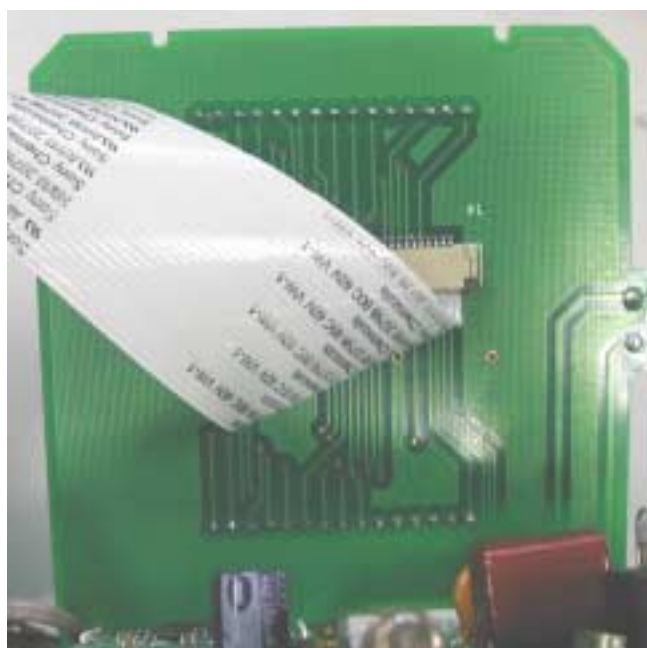
Inner Circuit Bottom View



Top View of the LCD



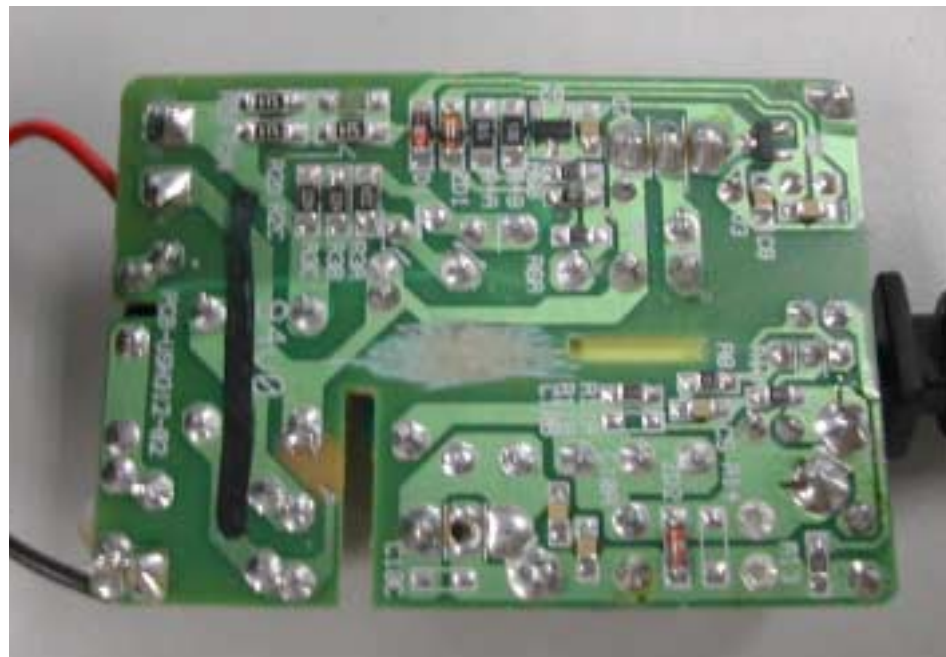
Bottom View of the LCD



Inner Circuit Top View of the adaptor



Inner Circuit Rear View of the adaptor



5.3 Nameplate:

Use direction

1. Model No.: GKB7ME-3
2. Transmit power $\leq 10\text{mW}$
3. Receive sensitivity $\leq -103\text{dBm}$
4. Transmit and receive frequency:
433.9MHz $\pm 10\text{ppm}$
5. Voltage: +12V $\approx$ 40mA
6. Temperature: -10~60°C
7. Humidity: <90%

FC

FCC ID: SDGGKB7ME-3

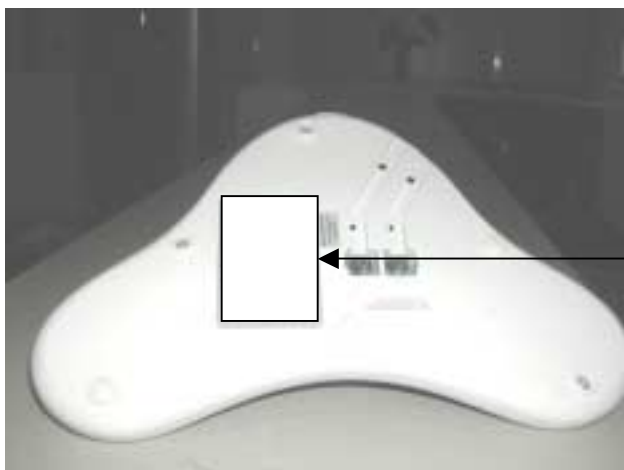
*Warning: please pull out the telephone line,
When replacing the batteries.*

GUANGZHOU GKB ELECTRIC CO., LTD.

Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: The statement is in the Operating Instructions because of the size of nameplate



*Position of the
Nameplate*

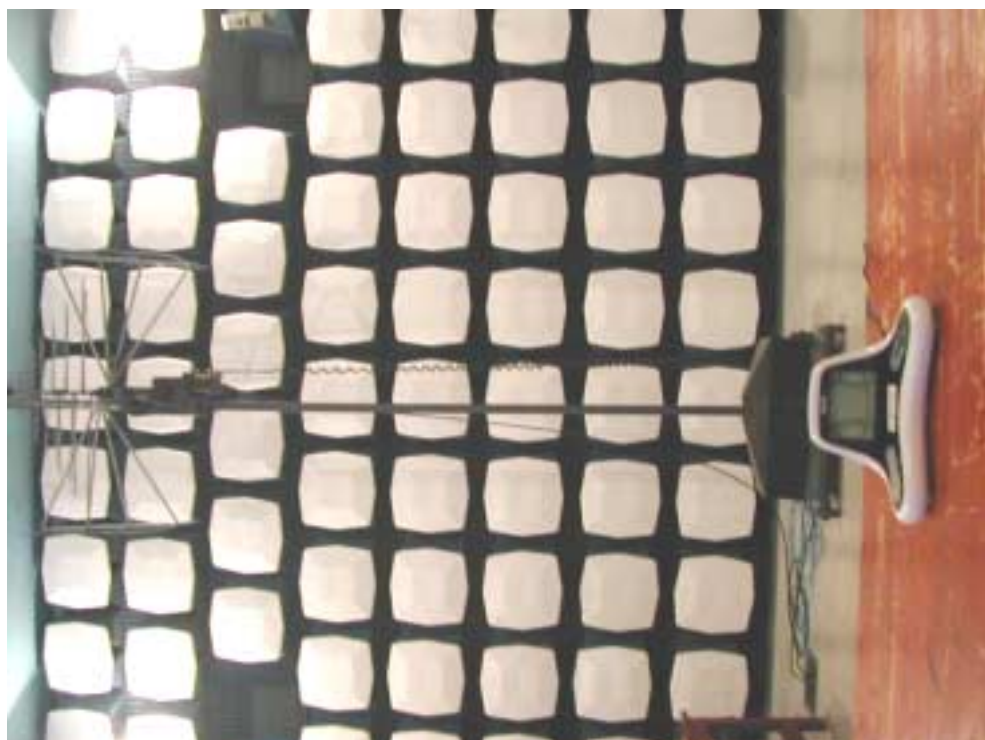
6. Photograph of the test setup



AC mains power input/output ports



Measurement of Radiated Emission Test



Measurement of Radiated Emission Test



Measurement of Radiated Emission Test

Appendix A

Test Equipment	Mature Date of Calibration	Type/Model	Serial No.	Manufacturer
EMI Test Receiver	2005.10.12	ESI26	834000/009	R & S
EMI Test Receiver	2005.10.12	ESCS30	100158	R & S
LISN	2005.10.12	ESH3-Z5	844982/020	R & S
LISN	2005.10.12	ESH3-Z5	833874/002	R & S
Biconilog Antenna	2005.06.04	3141	1178	EMCO
Waveguide Horn	2005.06.04	3115	0002-6038	EMCO

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