CLASS B CERTIFICATION APPLICATION
UNDER PART 18

EUT: ENERGY SAVING LAMPS
MODEL: QEFL23/GEFL23/TEFL23
FCC ID: KQP03
(CLASS II CHANGE)

SRT REPORT # T8B28-2

PREPARED FOR :

CHUAN SHIH INDUSTRIAL CO., LTD.
NO. 59, SHING-KONG 4TH RD.,
TA-SHING INDUSTRIAL DISTRICT,
TIEN-CHUNG, CHANG-HUA,
TAIWAN, R.O.C.

川石照明工業股份有限公司
彰化縣田中鎮大新工業區新工四路59號
Manufacturer and Exporter
CHUAN SHIH INDUSTRIAL CO., LTD.
No.59, Shing-Kong 4th Rd., Ta-Shing Industrial District, Tien-Chung, Chang-Hua, Taiwan, R.O.C.
TEL:04-8748130 FAX:04-8752064·8741584

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

To whom it may concern:

This is to serve as proper notice that our company agrees to make all modifications to FCCID: KQP03 as listed in section 3.0 of the test report submitted by Spectrum Research and Testing Laboratory, Inc.

Respectfully,

Effective Dates:

Lu, Lian-Fu
(Name, Surname)

From 9/01/98 to 9/01/99

manager
(Position/Title)

DATE: 9/01/98

川石照明工業股份有限公司
彰化縣田中鎮大新工業區新工四路59號
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Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

To whom it may concern:

This is to serve as proper written authorization that Spectrum Research and Testing Laboratory, Inc., 1603 Skinners Turn Road, Owings, Maryland 20736, will act as our representative in all matters relating to FCC applications for equipment approval. This includes the signing of all related documents, the transmitting of required fees, and receiving correspondence and notifications from the FCC. All acts performed by Spectrum Research and Testing Laboratory, Inc.,especially modifications to our equipment under testing will be carried out on our behalf.

Meantime, the applicant certifies that in the case of an individual applicant(e.g., corporation), no party to the applicant is subject to s denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862. For a definition of a "party" for these purposes see 47 C.F.R. 1.2002(b).

If you have any questions regarding our applications for equipment approval, please contact Spectrum Research and Testing Laboratory, Inc. by calling (301)855-2262.

Respectfully,

Effective Dates:

Lu, Lian-Fu
(Name, Surname)

From 9/01/98 to 9/01/99

manager
(Position/Title)

DATE: 9/01/98

EMI TESTING REPORT

EUT : ENERGY SAVING LAMPS

MODEL: QEFL23/GEFL23/TEFL23

FCCID: KQP03

PREPARED FOR:

CHUAN SHIH INDUSTRIAL CO., LTD.

NO. 59, SHING-KONG 4TH RD.,

TA-SHING INDUSTRIAL DISTRICT,

TIEN-CHUNG, CHANG-HUA,

TAIWAN, R.O.C.

PREPARED BY:

SPECTRUM RESEARCH & TESTING
LABORATORY INC.

NO. 101-10, LING 8, SHAN-TONG LI
CHUNG-LI CITY, TAOYUAN, TAIWAN, R.O.C.

TEL:(03)4987684
FAX:(03)4986528

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1. TEST REPORT CERTIFICATION

APPLICANT : CHUAN SHIH INDUSTRIAL CO., LTD.

ADDRESS : NO. 59, SHING-KONG 4TH RD.,
TA-SHING INDUSTRIAL DISTRICT,
TIEN-CHUNG, CHANG-HUA,
TAIWAN, R.O.C.

EUT DESCRIPTION : ENERGY SAVING LAMPS

(A) POWER SUPPLY : 120VAC

(B) MODEL : QEFL23/GEFL23/TEFL23

(C) FCCID : KQP03

FINAL TEST DATE : 09/02/1998

MEASUREMENT PROCEDURE USED :

PART 18 OF FCC RULES AND REGULATIONS
FCC / ANSI C63.4 - 1992 & MP-5

WE HEREBY SHOW THAT:

THE MEASUREMENTS SHOWN IN THE ATTACHMENT WERE MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE LIMITS APPLICABLE.

TESTING ENGINEER : Taylor auth DATE 09/02/98
Taylor Ho

SUPERVISOR : DATE 9/2/98
Jesse Ho

APPROVED BY : DATE 9/2/98
Johnson Ho

2. TEST STATEMENT

2.1 TEST STATEMENT

TO whom it may concern,

This letter is to explain the EUT (Energy Saving Lamps) will be class II changed. All circuit are same, except bulb size change and circuit board size has litter reduce.

The original FCC ID: KQP03 was approved by FCC.

2. TEST STATEMENT

2.2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS

DID HAVE
ANY DEPARTURE FROM DOCUMENT POLICIES
& PROCEDURES OR FROM SPECIFICATIONS.

YES _____ , NO N/A .

IF YES, THE DESCRIPTION AS BELOW.

2.3 TEST STATEMENT

1. THE CERTIFICATE OR REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY.

2. THE REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

3. EUT MODIFICATIONS

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING:

1). AC INPUT ADDED A X-CAP (0.1uf) AND SERIES INDUCTOR (imp: 100uH).

4. MODIFICATION LETTER

THIS SECTION CONTAINS THE FOLLOWING DOCUMENTS:

A. LETTER OF MODIFICATIONS

5. CONDUCTED POWER LINE TEST

5.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE CONDUCTED POWER LINE TEST :

EQUIPMENT/ FACILITIES	SPECIFICAT -IONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL.CENTER	DUE DATE
SPECTRUM ANALYZER	9 KHz TO 1 GHz	HP	8590L/ 3624A1317	OCT,1997 HP	1Y
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 826003/008	OCT, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50-R24-BNC/ 951315	AUGUST, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50-R24-BNC/ 951318	AUGUST, 1997 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	APRIL, 1998 ITRI	1Y
POWER CONVERTER	0 TO 300 VAC 47 - 500 Hz	AFC	AFC-1KW/ 850510	APRIL, 1998 SRT	1Y

5.2 CONFIGURATION OF THE EUT

THE EUT WAS CONFIGURED ACCORDING TO ANSI C63.4 - 1992 & MP-5 ALL INTERFACE PORTS WERE CONNECTED TO THE APP-ROPRIATE PERIPHERALS. ALL PERIPHERALS AND CABLES ARE LISTED BELOW.

-EUT

DEVICE	MANUFACTURER	MODEL #	FCCID
ENERGY SAVING LAMPS	CHUAN SHIH INDUSTRIES CO., LTD.	QEFL23/GEFL23/ TEFL23	KQP03

-REMARK

-INTERNAL DEVICES

DEVICE	MANUFACTURER	MODEL #	DoC/FCCID

-PERIPHERALS

DEVICE	MANUFACTURER	MODEL# / SERIAL#	FCCID	CABLE
N/A				

-REMARK

(1). CABLE - UNS : UNSHIELDED CABLE
S : SHIELDED CABLE

(2). CABLES - ALL 1m OR GREATER IN LENGTH-
BUNDLED ACCORDING TO ANSI C63.4 - 1992
& MP-5.

5.3 EUT OPERATING CONDITION

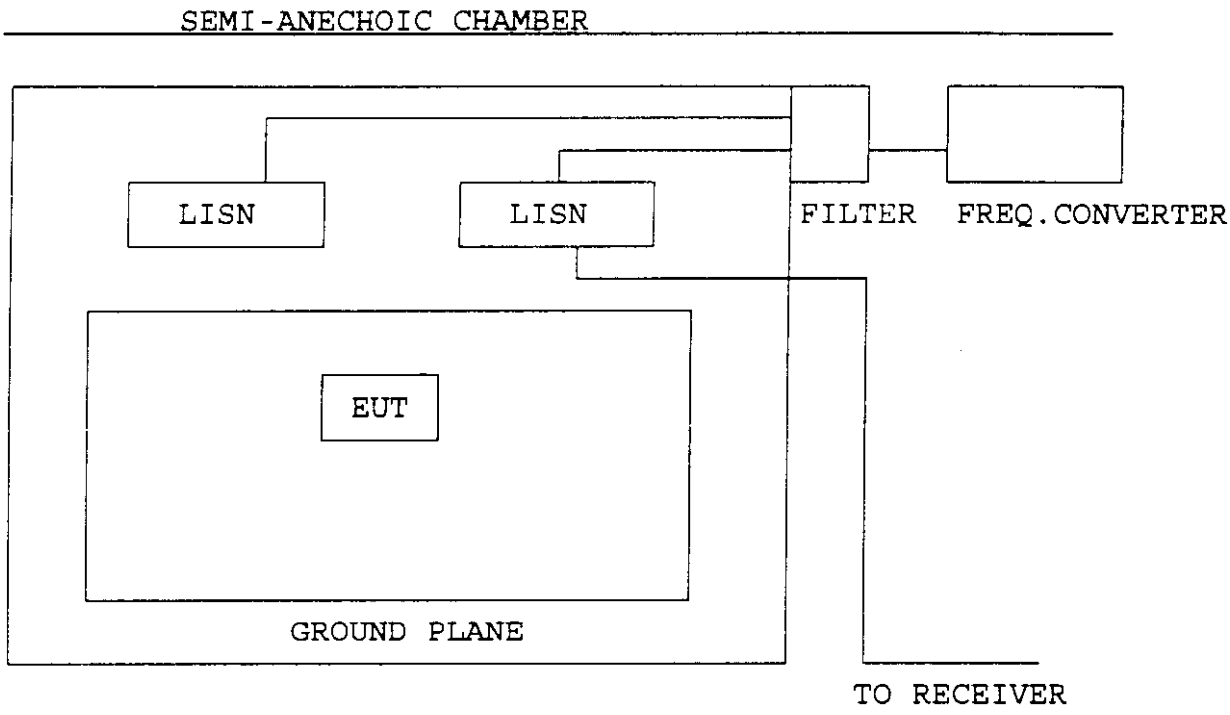
OPERATING CONDITION IS ACCORDING TO ANSI C63.4 - 1992 & MP-5.

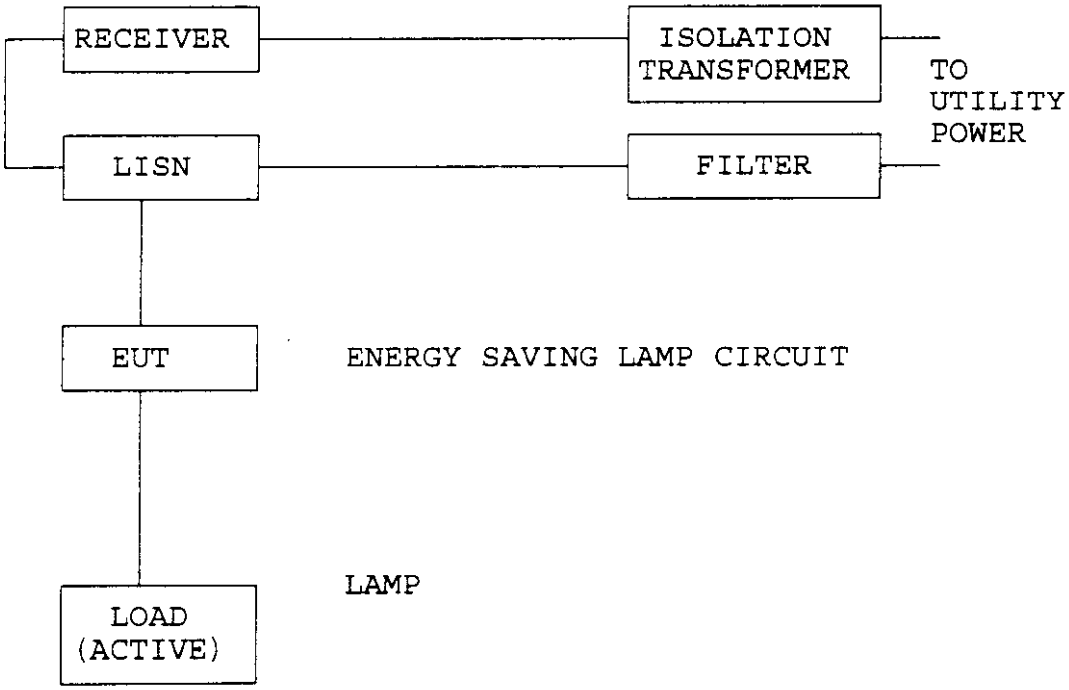
1. EUT POWER ON.

5.4 TEST PROCEDURE

THE EUT WAS TESTED ACCORDING TO ANSI C63.4 - 1992 & MP-5 THE CONDUCTED TEST WAS PERFORMED IN AN ANECHOIC CHAMBER. THE FREQUENCY SPECTRUM FROM 0.45MHz TO 30MHz WAS INVESTIGATED. THE LISN USED WAS 50 ohm / 50 uHenry AS SPECIFIED BY SECTION 5.1 OF ANSI C63.4 - 1992 & MP-5. CABLES AND PERIPHERALS WERE MOVED TO FIND THE MAXIMUM EMISSION LEVELS FOR EACH FREQUENCY.

5.5 TEST SETUP





5.6 CONDUCTED POWER LINE EMISSION LIMIT

FREQUENCY RANGE (MHz)	
0.045 - 1.705	250 uV
1.705 - 30	250 uV

NOTE : IN THE ABOVE TABLE, THE TIGHTER LIMIT APPLIES AT THE BAND EDGES.

5.7 CONDUCTED POWER LINE TEST RESULT

THE FREQUENCY SPECTRUM FROM 0.45 MHz TO 30 MHz WAS INVESTIGATED. ALL READINGS ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 9 KHz.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQUENCY(MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.53	82.22	113.5	250
0.58	87.10	91.20	250
0.85	103.5	80.35	250
0.93	127.4	104.7	250
1.24	*	96.61	250
1.32	97.72	*	250

REMARKS : (1).* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

(2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB

(3).QEFL23

(4).TEST CONFIGURATION PLEASE SEE 4.2

(5).TEST EQUIPMENT PLEASE SEE 4.1

(6).ANY DEPARTURE FROM SPECIFICATION:N/A

SIGNED BY TESTING ENGINEER : Jonathan Smith

5.7 CONDUCTED POWER LINE TEST RESULT

THE FREQUENCY SPECTRUM FROM 0.45 MHz TO 30 MHz WAS INVESTIGATED. ALL READINGS ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 9 KHz.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQUENCY(MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.48	*	87.10	250
0.90	107.2	*	250
1.19	123.0	*	250
3.70	35.89	29.51	250
6.22	*	6.607	250

REMARKS : (1).* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

(2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB

(3).GEFL23

(4).TEST CONFIGURATION PLEASE SEE 4.2

(5).TEST EQUIPMENT PLEASE SEE 4.1

(6).ANY DEPARTURE FROM SPECIFICATION:N/A

SIGNED BY TESTING ENGINEER : Taylor auth

5.7 CONDUCTED POWER LINE TEST RESULT

THE FREQUENCY SPECTRUM FROM 0.45 MHz TO 30 MHz WAS INVESTIGATED. ALL READINGS ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 9 KHz.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQUENCY(MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.48	81.28	72.44	250
0.85	*	120.2	250
1.00	138.0	*	250
2.53	53.09	35.89	250
4.13	26.30	*	250
17.9	*	17.58	250

REMARKS : (1).* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

(2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB

(3).TEFL23

(4).TEST CONFIGURATION PLEASE SEE 4.2

(5).TEST EQUIPMENT PLEASE SEE 4.1

(6).ANY DEPARTURE FROM SPECIFICATION:N/A

SIGNED BY TESTING ENGINEER : Taylor Smith

6. RADIATED EMISSION TEST

6.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE RADIATED EMISSION TEST :

EQUIPMENT / FACILITIES	SPECIFICAT -IONS	MANUFACTUR -ER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE
RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS 30/ 841977/003	APRIL, 1998 ITRI	1Y
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	HP	8568B/ 3019A05294	OCT, 1997 ETC	1Y
SPECTRUM ANALYZER	9 KHz TO 22 GHz	HP	8593E/ 3322A00670	APRIL, 1998 ITRI	1Y
SPECTRUM ANALYZER	100 Hz TO 1000 MHz	IFR	A-7550/ 2684/1248	JULY, 1998 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	APRIL, 1998 ITRI	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9003-535	DEC,1997 SRT	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9611-1239	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/ 9509-1152	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143/ 9509-1152	DEC, 1997 SRT	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A08402	APRIL, 1998 ITRI	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A06412	OCT, 1997 ETC	1Y
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 9012-3619	DEC, 1997 SRT	1Y

6.2 CONFIGURATION OF THE EUT

SAME AS SECTION 5.4 OF THIS REPORT.

6.3 EUT OPERATING CONDITION

SAME AS SECTION 5.3 OF THIS REPORT.

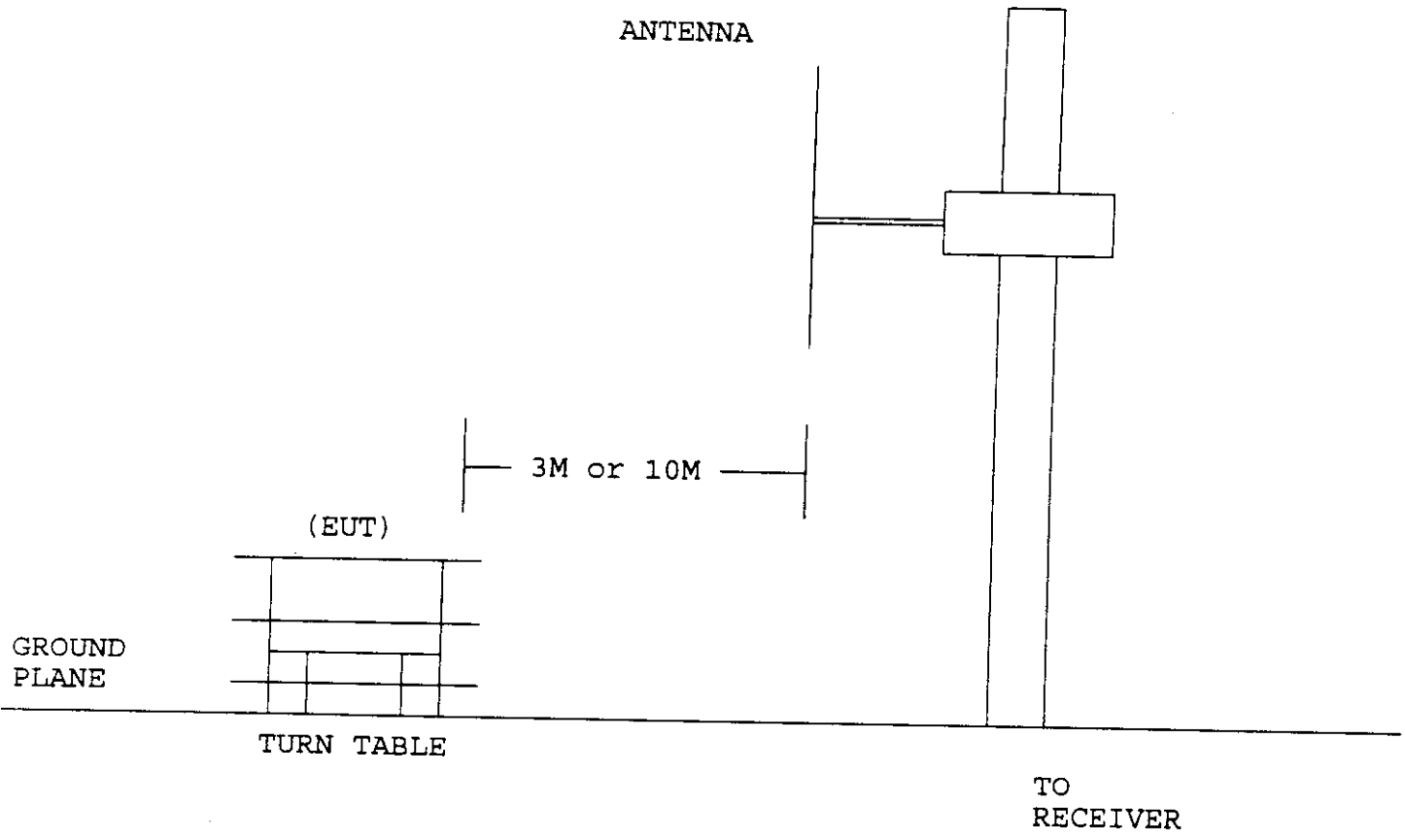
6.4 TEST PROCEDURE

THE EUT WAS TESTED ACCORDING TO ANSI C63.4 - 1992 & MP-5. THE RADIATED TEST WAS PERFORMED AT SRT LAB's OPEN SITE. THIS SITE IS ON FILE WITH THE FCC LABORATORY DIVISION, REFERENCE 31040/SIT.

THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED.MEASUREMENTS WERE MADE AT THREE METERS WITH AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXIMUM EMISSION FOR EACH FREQUENCY.

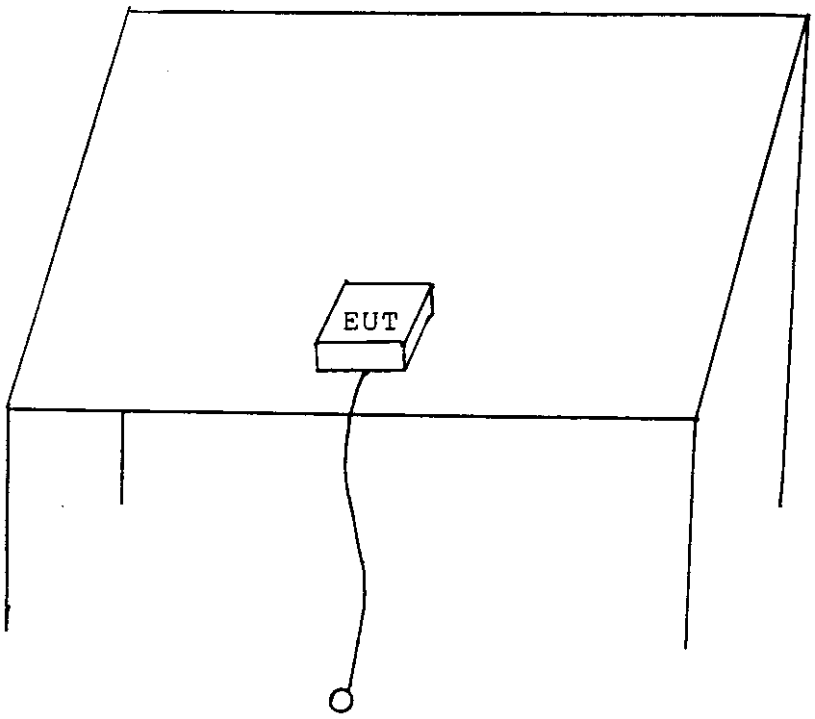
THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED. THE MEASUREMENTS UNDER 1 GHz WITH RESOLUTION BANDWIDTH OF 120 KHz ARE QUASI-PEAK READING MADE AT THREE METERS USING AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXTMUM EMISSION FOR EACH FREQUENCY.

6.5 RADIATED TEST SETUP



6.5 RADIATED TEST SETUP

* ANSI C63.4-1992



6.6 RADIATED EMISSION LIMIT

ALL EMISSION SHALL NOT EXCEED THE LEVEL OF FIELD STRENGTH SPECIFIED BELOW :

CLASS B

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
ABOVE 960	3	500

NOTE : 1. IN THE EMISSION TABLES ABOVE, THE TIGHTER LIMIT APPLIES AT THE BAND EDGES.

2. DISTANCE REFERS TO THE DISTANCE BETWEEN MEASURING INSTRUMENT, ANTENNA, AND THE CLOSEST POINT OF ANY PART OF THE DEVICE OR SYSTEM.

6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHz. MEASUREMENTS WERE MADE AT 3 METERS. THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING(dBuV)		EMISSION(uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
30.00	0.7	13.2	14.00	20.90	24.83	54.95	100
123.1	1.4	7.20	16.45	19.67	17.89	25.91	150
768.2	3.3	20.9	*	11.43	*	60.46	200
774.0	3.3	20.9	12.47	*	68.16	*	200
960.2	4.0	22.2	11.50	*	76.74	*	200
971.9	4.1	22.5	*	11.35	*	78.98	500

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). SAMPLE CALCULATION
20 LOG(EMISSION)uV/m =CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)

(4). TEST EQUIPMENT PLEASE SEE 5.1

(5). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB

(6). ANY DEPARTURE FROM SPECIFICATION:N/A

(7). QEFL23

SIGNED BY TESTING ENGINEER : Taylor Smith

6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHz. MEASUREMENTS WERE MADE AT 3 METERS. THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING(dBuV)		EMISSION(uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
35.82	0.8	9.80	20.50	*	35.89	*	100
47.46	0.8	6.60	*	23.74	*	36.06	100
319.1	2.2	14.7	11.12	11.60	25.18	26.61	200
684.8	3.3	20.1	11.83	*	57.74	*	200
721.6	3.4	20.5	*	11.85	*	61.31	200
900.1	3.9	22.6	11.30	12.00	77.62	84.14	200

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). SAMPLE CALCULATION
20 LOG(EMISSION)uV/m =CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m).

(4). TEST EQUIPMENT PLEASE SEE 5.1

(5). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB

(6). ANY DEPARTURE FROM SPECIFICATION:N/A

(7). GEFL23

SIGNED BY TESTING ENGINEER : Taylor auth

6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHz. MEASUREMENTS WERE MADE AT 3 METERS. THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING(dBuV)		EMISSION(uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
35.82	0.8	9.80	18.20	16.88	27.54	23.66	100
319.1	2.2	14.5	11.12	23.36	24.60	100.7	200
480.1	2.6	17.0	*	18.33	*	78.80	200
699.3	3.4	20.2	11.89	12.99	59.50	67.53	200
921.4	3.9	22.3	11.54	*	77.09	*	200

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). SAMPLE CALCULATION
20 LOG(EMISSION)uV/m =CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m).

(4). TEST EQUIPMENT PLEASE SEE 5.1

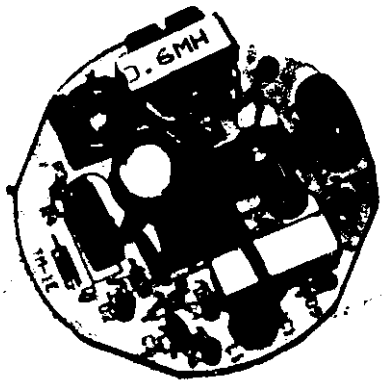
(5). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB

(6). ANY DEPARTURE FROM SPECIFICATION:N/A

(7). TEFL23

SIGNED BY TESTING ENGINEER : Taylor Smith

7. PHOTOS OF TESTING
   A. MAIN BOARD COMPONENT SIDE VIEW (QEFL23)



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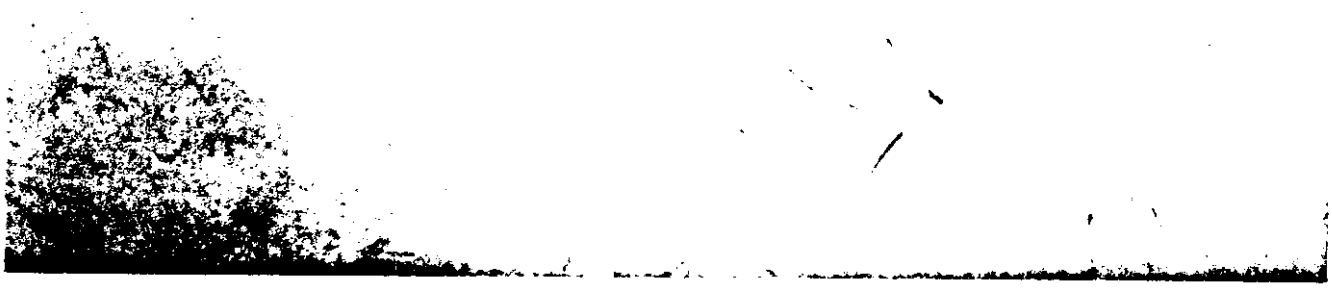
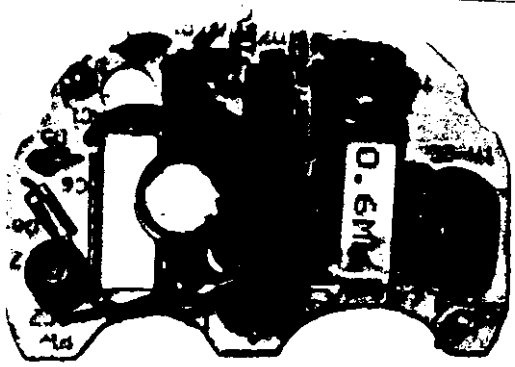
QEFL23 120V



7. PHOTOS OF TESTING
B. MAIN BOARD SOLDER SIDE VIEW (QEFL23)

7. PHOTOS OF TESTING
C. MAIN BOARD COMPONENT SIDE VIEW (GEFL23)



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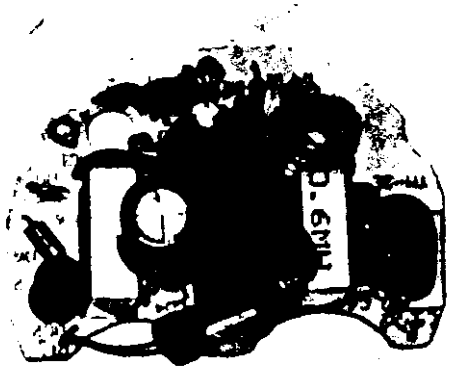
GEFL23 120V

7. PHOTOS OF TESTING
D. MAIN BOARD SOLDER SIDE VIEW (GEFL23)

7. PHOTOS OF TESTING
E. MAIN BOARD COMPONENT SIDE VIEW (TEFL23)



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TEFL23 120V

7. PHOTOS OF TESTING
F. MAIN BOARD SOLDER SIDE VIEW (TEFL23)