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FCC TEST REPORT FOR

APPLICANT : DSI International, Taiwan Inc.

ADDRESS : 5F, No. 91, Sec. 3, Nanking E. Rd.,
Taipei City, Taiwan, R. O. C.

EUT : Keyboard

MODEL NO. : FK-101

FCC ID : Q4JKBFK101

Under Part 15, SUBPART B.

CLASS B

Certification

MEASUREMENT PROCEDURE USED

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993) AND FCC / ANSI C63.4-1992

PREPARED BY :

HomeTek Technology Inc.

No. 85-5, Shir Men Road, Tu Cheng City,

Taipei Hsien. TAIWAN, R. O. C.

Report # : FB2D029



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CERTIFICATION

EUT : Keyboard
MODEL NO. : FK-101
FCC ID : Q4JKBFK101
Receipt Date : 02/24/2003 Final Test Date: 03/26/2003
REPORT # : FB2D029
APPLICANT : DSI International, Taiwan Inc.
ADDRESS : 5F, No. 91, Sec. 3, Nanking E. Rd.,
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MEASUREMENT PROCEDURE USED :

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993)
AND FCC / ANSI C63.4-1992

WE HEREBY SHOW THAT :

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

THIS TEST RESULTS OF THIS REPORT APPLIES TO ABOVE TESTED SAMPLE ONLY.

THIS TEST REPORT SHALL NOT BE REPRODUCE IN PART WITHOUT WRITTEN APPROVAL
OF HOMETEK TECHNOLOGY INC.

PREPARED BY : Eileen Chang DATE : 4/30/2003
EILEEN CHANG

CHECK BY : Alain Lin DATE : 4/30/2003
ALAIN LIN / Director

APPROVED BY : Tommy Rau DATE : 4/30/2003
TOMMY RAU / Manager



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**GENERAL INFORMATION**

1 APPLICANT : DSI International, Taiwan Inc.

2 ADDRESS : 5F, No. 91, Sec. 3, Nanking E. Rd.,
Taipei City, Taiwan, R. O. C.

3 MANUFACTURER : Strong Man Enterprise Co., Ltd.

4 ADDRESS : No. 25 Lane 46, Jong Chen Rd.
Hsin Chuang City, Taipei Hsien
Taiwan, R.O.C.

5 DESCRIPTION OF EUT :

EUT : Keyboard

FCC ID : Q4JKBFK101

Model Number : FK-101

Serial # : N/A

5.1 The EUT were investigated with three operation modes as below:

1. USB Mode (connect to personal computer)
2. PS 2 Mode (connect to personal computer)
3. ADB Mode (connect to Apple Mac computer)

The test mode of 1. USB Mode is worst case, and the final test data was shown in test report.

Remark: The USB and PSII function can't operate simultaneously.



6 FEATURES OF EUT :

- 6.1 Full size 109 key Extended keyboard.
- 6.2 2 USB “A” ports.
- 6.3 Powerup “Hotkey” for Remote computer startup.
- 6.4 AT interface with AT or PS/2 connector.
- 6.5 One MAC interface input port.
- 6.6 One MAC interface output port.



MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

- 1 Add a bead ($600\ \Omega$) between IC Vcc input and +5V Vcc.
- 2 Replace R9, R10 by bead ($60\ \Omega$).
- 3 Replace L1 by bead ($600\ \Omega$), and add a 104P capacitor bypass to ground.
- 4 Replace L2 by $0\ \Omega$ resistor.
- 5 Connect the power ground of P.C.B. to metal plate above the P.C.B.
- 6 Add a bead ($600\ \Omega$) between IC Vcc input and +5V Vcc.
- 7 Replace L3, L5 by bead ($600\ \Omega$).
- 8 Replace L4, L6 by $0\ \Omega$ resistor.
- 9 Replace R12~R15 by bead ($60\ \Omega$) and add a 20P capacitor by pass to ground.
- 10 Insert bead ($60\ \Omega$) in each pin (pin18~pin21) of IC 3
- 11 Replace R22 by bead ($600\ \Omega$)
- 12 Connect chassis of USB connector to metal plate.
Change the cable (4 wire) to shield cable, and the shield of cable connect to metal plate which above the P.C.B and P.C.B ground plane.
- 13 Add a ferriet core (L92T 14 x 9 x 5) on the signal cable with one turn.
(close to internal P.C.B connector)



CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model # S/N	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30 844827/007	DEC/2002
2	LISN (for EUT)	50 Ω /50uH/100A 150KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121 8121370	OCT/2002
3	LISN (for Support Unit)	50 Ω /50uH/10A 9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5 846128/007	FEB/2003
4	Terminator	50 Ω	N/A	N/A	NOV/2002
5	Attenuation	50 Ω /10dB	Mini-Circuit	NAT-10 AT-002	JUL/2002
6	Cable	3m	SUHNER	RG-223 CON2-001	DEC/2002
7	ESXS-K1 (software)	Version 2.03b 9KHz ~ 30MHz	ROHDE & SCHWARZ	1082.9678.02 840.913/246	N/A

Note : Items 1 ~ 6 were calibrated within period of 1 year.

2 TEST PROCEDURE

2.1 The EUT was tested according to **ANSI C63.4 - 1992 & CISPR 22**.

2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.

2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.

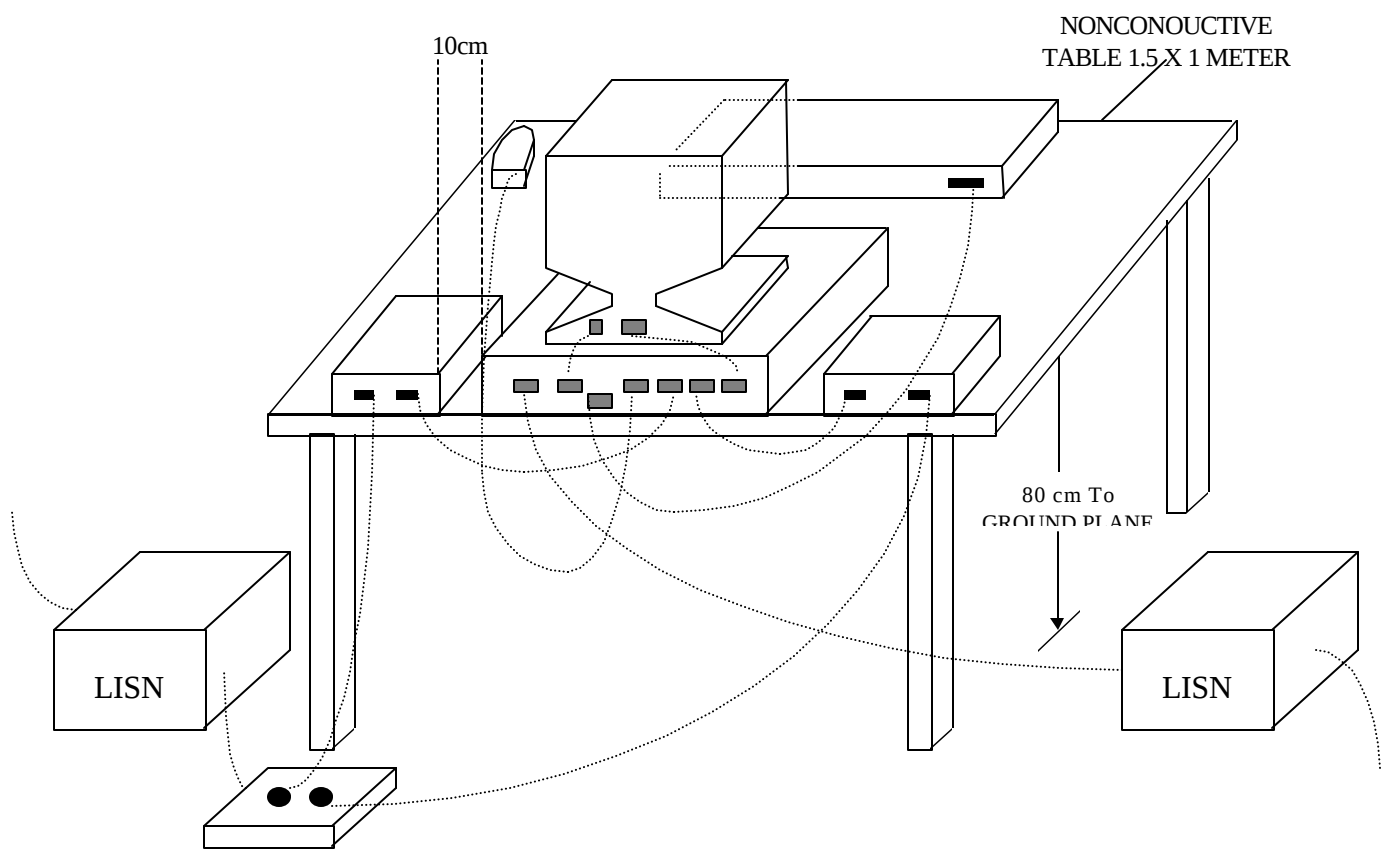
2.4 The LISN used was 50 Ohm / 50 uHenry as specified by **ANSI C63.4 - 1992 & CISPR 22**.
and AC power source is 110V/60Hz.

2.5 All the support peripherals are connect to the other LISN.

2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.

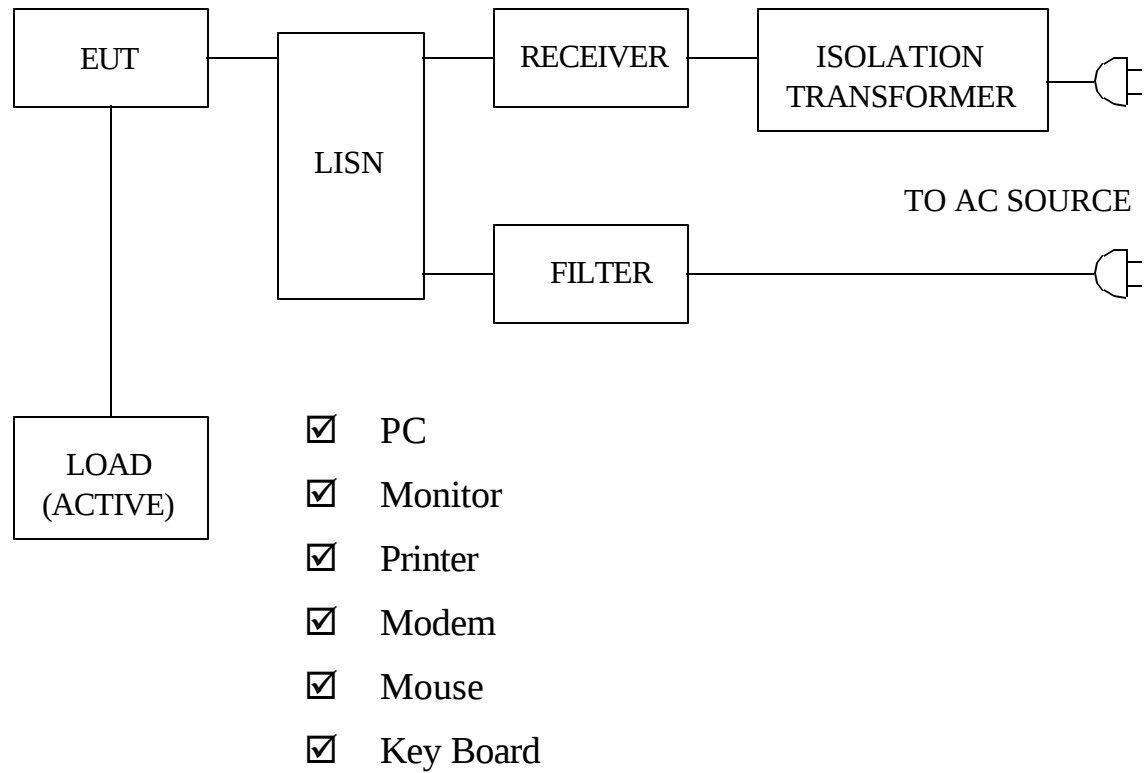
3 TEST SETUP

3.1 Typical : Setup Of Conducted Test



(Details for setup configuration, please refer to appendix A.)

3.2 Block Diagram Of Conducted Test





4 CONFIGURATION OF THE EUT

The EUT was configured according to **ANSI C63.4 - 1992 & CISPR 22**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

4.1 EUT

EUT Type : ☐Proto Type ☒Engineer Type ☐Mass Production
Condition when received : ☒Good ☐Damage : _____
Device : Keyboard
Applicant : DSI International, Taiwan Inc.
Manufacturer : Strong Man Enterprise Co., Ltd.
Model Number : FK-101
Serial Number : N/A
FCC ID : Q4JKBFK101
Data Cable : Shielded, 2.15 m (Metal Type)
Power Cord : N/A
Power Supply Type : From PC

4.2 PERIPHERALS

☒ Host Personal Computer
Manufacturer : COMPAQ
Model Number : EVO D300
Serial Number : 6K1BKF83F0VE
FCC ID : FCC DoC
Data Cable : Shielded
Power Cord : Un-Shielded, 1.8 m



☒ Power PC G3

Manufacturer : Apple
Model Number : M4405
Serial Number : SG80868JBXU
FCC ID : 3872 P904
Data Cable : Shielded
Power Cord : Un-Shielded, 1.8 m

☒ Monitor

Manufacturer : HITACHI
Model Number : CM769ET
Serial Number : DJ71
FCC ID : FCC DoC
Data Cable : Shielded, 1.5 m, Connected to the VGA port
Power Cord : Un-Shielded, 1.8 m

☒ Printer

Manufacturer : HP
Model Number : DJ400
Serial Number : MY77V1C0DD
FCC ID : B94C2642X
Data Cable : Shielded, 1.5 m, Connected to the Printer port
Power Cord & Adaptor : Un-Shielded, 1.8 m



☒ Modem

Manufacturer : ACEEX
Model Number : 1414
Serial Number : 9013526
FCC ID : IFAXDM1414
Data Cable : Shielded, 1.5 m, Connected to the COM port
Power Cord & Adaptor : Un-Shielded, 1.8 m

☒ Mouse (PSII)

Manufacturer : LOGITECH
Model Number : M-S34
Serial Number : HCA15103392
FCC ID : DZL211029
Data Cable : Shielded, 1.8 m, Connected to the PSII port
Power Cord : N/A

☒ Mouse (USB)

Manufacturer : Microsoft
Model Number : Wheel Mouse Optical
Serial Number : 1702
FCC ID : FCC DoC
Data Cable : Shielded, 1.8 m, Connected to the USB port
Power Cord : N/A



☒ Mouse (USB)

Manufacturer : Apple
Model Number : M5769
Serial Number : ZH244AFGTKD8A
FCC ID : FCC DoC
Data Cable : Shielded, 1.8 m, Connected to the USB port
Power Cord : N/A

☒ Mouse (ADB)

Manufacturer : Apple
Model Number : FDM-320
Serial Number : N/A
FCC ID : F4Z4K3FDM-320
Data Cable : Shielded, 0.85 m
Power Cord : N/A

☒ KeyBoard (PSII)

Manufacturer : Monterey
Model Number : K371
Serial Number : H0007057608
FCC ID : FCC DoC
Data Cable : Shielded, 1.5 m, Connected to the PSII port
Power Cord : N/A

4.3 REMARK : N/A



5 EUT OPERATING CONDITION

- 5.1 The frequency of the EUT were 6 MHz.
- 5.2 Configure the EUT according to the **ANSI C63.4 - 1992 & CISPR 22**.
- 5.3 Turn on the power of all equipments.
- 5.4 Test program sent “H” pattern to peripherals as following:
 - 5.4.1 Printer
 - 5.4.2 Monitor
 - 5.4.3 Modem
- 5.5 Test program sent control command to EUT and the LED of EUT flashed.
- 5.6 **The photos of conducted test configuration, please refer to appendix A.**

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B

CISPR 22

Frequency Range	Quasi Peak	Average
0.15 ~ 0.5 MHz	66 - 56 dBuV	56 - 46 dBuV
0.5 ~ 5 MHz	56 dBuV	46 dBuV
5 ~ 30 MHz	60 dBuV	50 dBuV

- 6.1 In the above table, the tighter limit applies at the band edges.

7 RESULT OF CONDUCTED POWER LINE TEST

- 7.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.
- 7.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.
- 7.3 Temperature : 27 , Humidity : 60 % RH.
- 7.4 Deviations from the test standards and rules : None
- 7.5 The conducted test result were gained by following procedures :
Level = Reading Level + Insertion Loss of LISN + Cable Loss
(All calculation were done by ESHS30 EMI test receiver.)
- 7.6 Result : **PASSED**

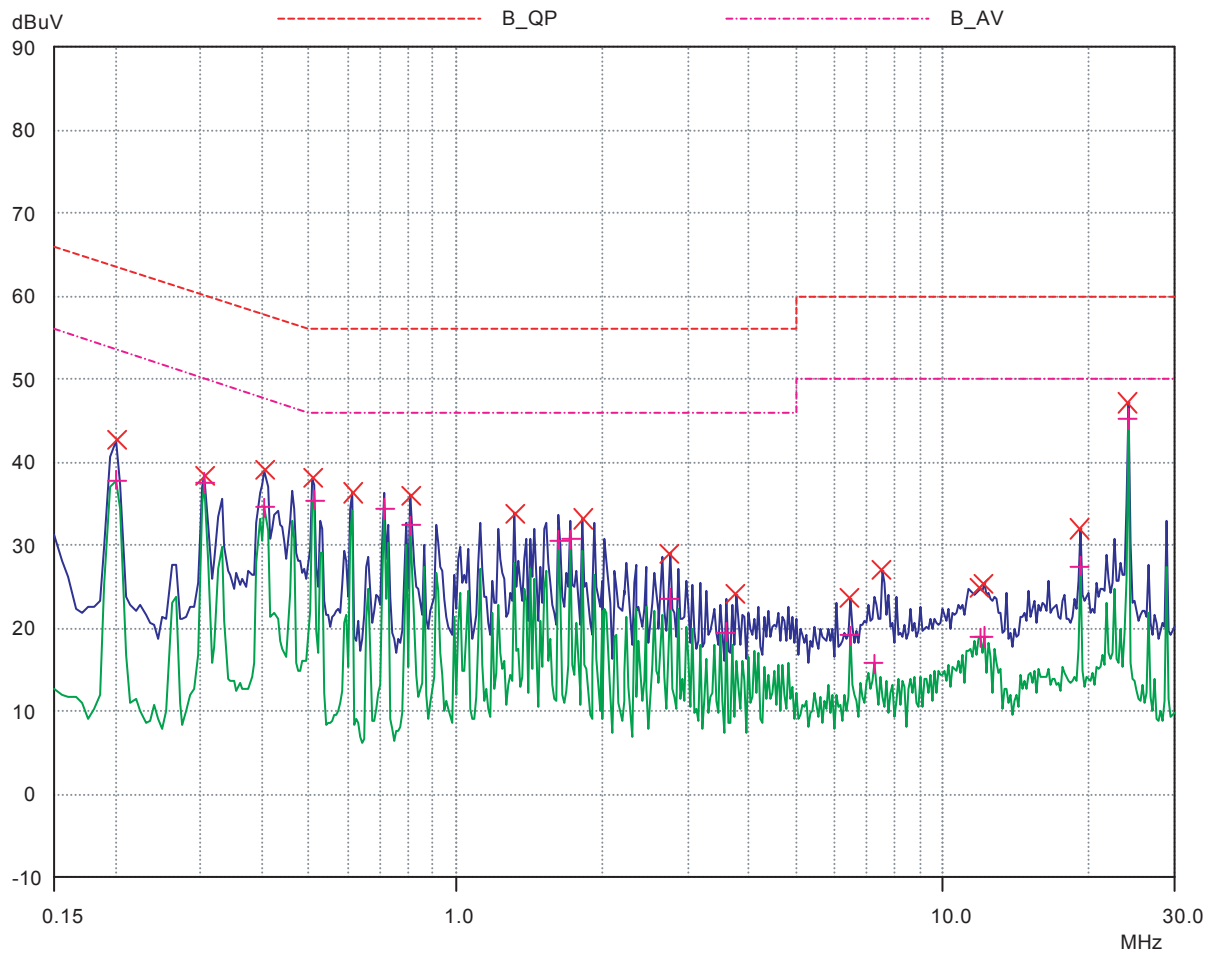
HomeTek EMC LAB. TEL :886-2-22608375

25 Mar 2003 15:26

CONDUCTED EMISSIONS

EUT: Keyboard
Manuf: 2d029
Op Cond: LINE 1
Operator: CHINO
Test Spec: FOR CISPR22 CLASS B
Comment: FROM PC FK-101
USB MODE
Result File: 2d02911b.dat : USB

Prescan Measurement: Detectors: X PK / + AV
Meas Time: see scan settings
Subranges: 16
Acc Margin: 55 dB



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 Meas Time: see scan settings
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 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBuV	PK Limit dBuV	PK Delta dB
0.2	42.68	63.61	20.93
0.305	38.47	60.11	21.64
0.405	39.05	57.75	18.70
0.505	38.08	56.00	17.92
0.61	36.32	56.00	19.68
0.81	36.06	56.00	19.94
1.32	33.83	56.00	22.17
1.83	33.20	56.00	22.80
2.75	29.01	56.00	26.99
3.76	24.12	56.00	31.88
6.44	23.64	60.00	36.36
7.5	27.06	60.00	32.94
11.96	24.83	60.00	35.17
12.15	25.47	60.00	34.53
19.17	32.02	60.00	27.98
24.0	47.20	60.00	12.80

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.2	37.83	53.61	15.78
0.305	37.52	50.11	12.59
0.405	34.54	47.75	13.21
0.51	35.42	46.00	10.58
0.71	34.41	46.00	11.59
0.81	32.41	46.00	13.59
1.63	30.67	46.00	15.33
1.73	30.76	46.00	15.24
2.75	23.56	46.00	22.44
3.56	19.59	46.00	26.41
6.44	19.20	50.00	30.80
7.2	15.84	50.00	34.16
11.96	18.94	50.00	31.06
12.09	18.99	50.00	31.01
19.17	27.50	50.00	22.50
24.0	45.26	50.00	4.74

* limit exceeded

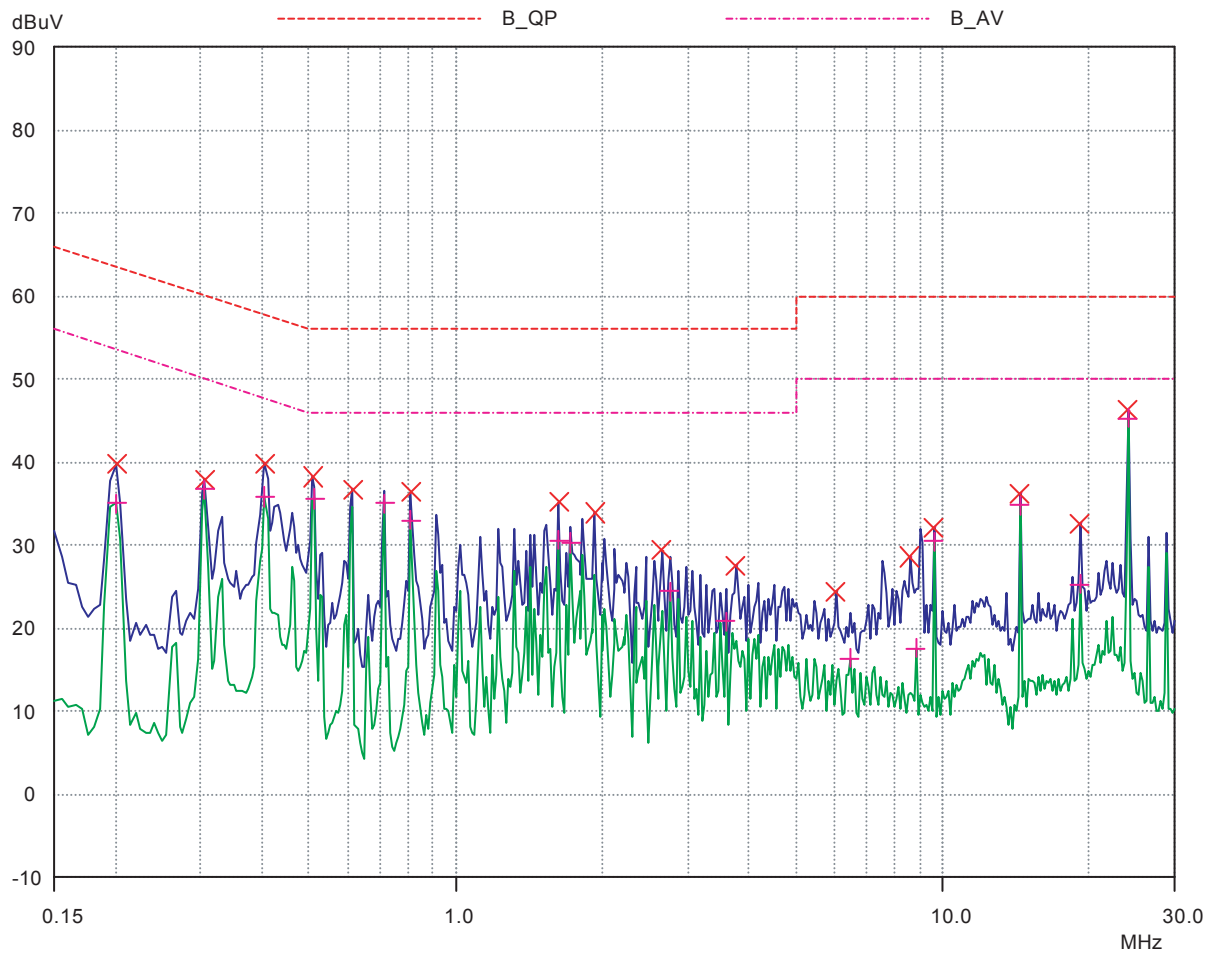
HomeTek EMC LAB. TEL :886-2-22608375

25 Mar 2003 15:44

CONDUCTED EMISSIONS

EUT: Keyboard
Manuf: 2d029
Op Cond: LINE 2
Operator: CHINO
Test Spec: FOR CISPR22 CLASS B
Comment: FROM PC FK-101
USB MODE
Result File: 2d02921b.dat : USB

Prescan Measurement: Detectors: X PK / + AV
Meas Time: see scan settings
Subranges: 16
Acc Margin: 55 dB



HomeTek EMC LAB. TEL :886-2-22608375

25 Mar 2003 15:44

CONDUCTED EMISSIONS

EUT: Keyboard
 Manuf: 2d029
 Op Cond: LINE 2
 Operator: CHINO
 Test Spec: FOR CISPR22 CLASS B
 Comment: FROM PC FK-101
 USB MODE
 Result File: 2d02921b.dat : USB

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 16
 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBuV	PK Limit dBuV	PK Delta dB
0.2	39.78	63.61	23.83
0.305	37.91	60.11	22.20
0.405	39.92	57.75	17.83
0.505	38.26	56.00	17.74
0.61	36.70	56.00	19.30
0.81	36.41	56.00	19.59
1.63	35.25	56.00	20.75
1.93	33.94	56.00	22.06
2.65	29.39	56.00	26.61
3.76	27.61	56.00	28.39
6.0	24.49	60.00	35.51
8.52	28.62	60.00	31.38
9.58	32.17	60.00	27.83
14.37	36.29	60.00	23.71
19.17	32.61	60.00	27.39
24.0	46.33	60.00	13.67

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.2	35.07	53.61	18.54
0.305	36.76	50.11	13.35
0.405	35.88	47.75	11.87
0.51	35.63	46.00	10.37
0.71	35.10	46.00	10.90
0.81	33.03	46.00	12.97
1.63	30.68	46.00	15.32
1.73	30.34	46.00	15.66
2.75	24.45	46.00	21.55
3.56	20.86	46.00	25.14
6.44	16.39	50.00	33.61
8.78	17.66	50.00	32.34
9.58	30.45	50.00	19.55
14.37	34.82	50.00	15.18
19.17	25.35	50.00	24.65
24.0	45.36	50.00	4.64

* limit exceeded

**RADIATED EMISSION TEST****1 TEST INSTRUMENTS & FACILITIES**

The following test Instruments was used during the radiated emission test :

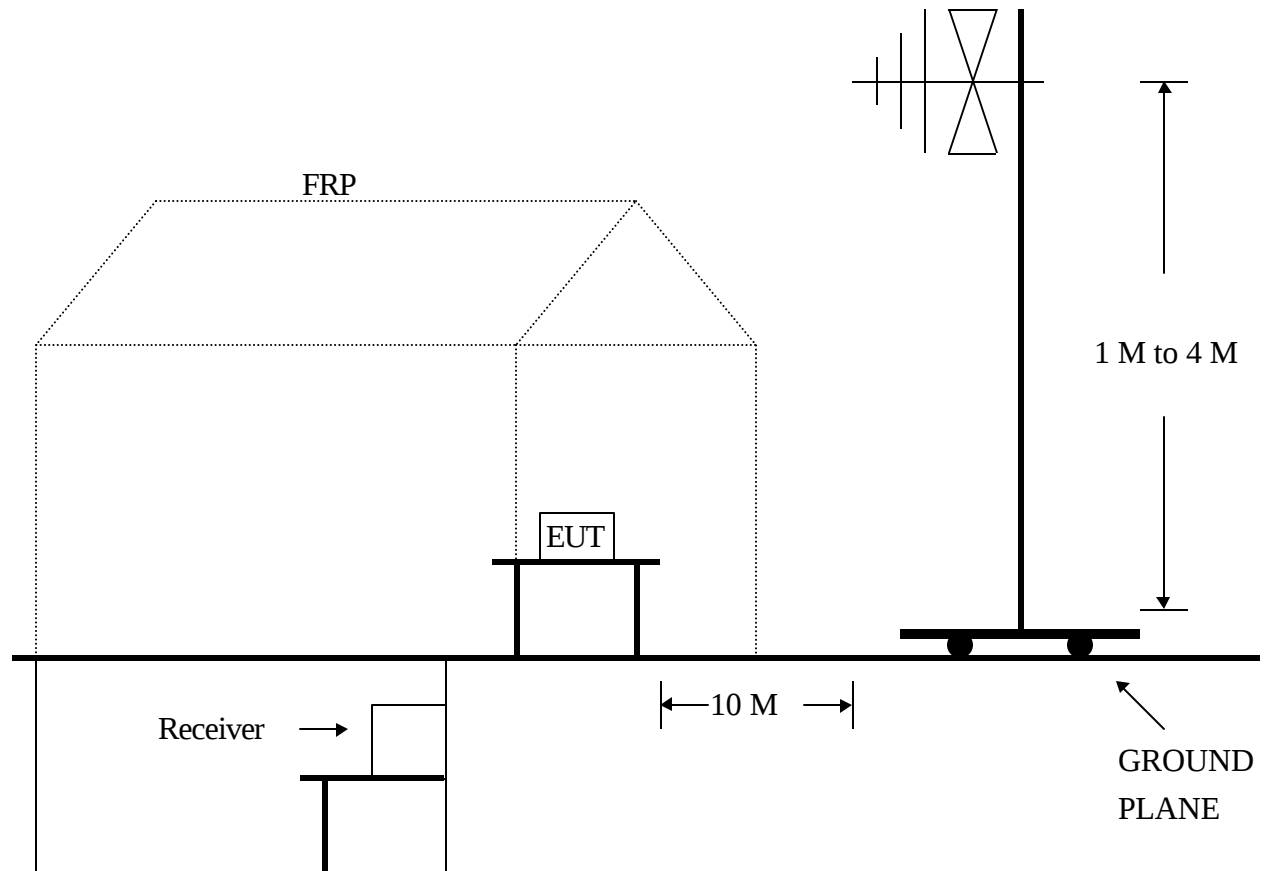
Item	Instruments /facilities	Specification	Manufacturer	Model # / S/N#	Date of Cal.
1	OPEN AREA TEST SITE	☒ OATS 3			AUG/2002
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	DEC/2002
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	SEP/2002
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2614	JUN/2002
5	ANTENNA (DIPOLE)	30 ~ 300MHz	ROHDE & SCHWARZ	HZ-12 842899/0008	JUL/2002
6	ANTENNA (DIPOLE)	300 ~ 1000MHz	ROHDE & SCHWARZ	HZ-13 842007/0004	JUL/2002
7	Attenuation	50 Ω /10dB	Mini-Circuit	NAT-10 AT-001	JUL/2002
8	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2002
9	Cable	14m	BELDEN	9913 OS3-001	DEC/2002
10	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

Note : Items 1 ~ 9 were calibrated within period of 1 year.

2 TEST PROCEDURE

- 2.1 The EUT was test according to **ANSI C63.4 - 1992 & CISPR 22**.
- 2.2 The radiated test was performed at HomeTek Lab' s Open Site III.
- 2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

3 TEST SETUP



(Details for setup configuration, please refer to appendix A.)



4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 EUT OPERATING CONDITION

5.1 Same as “Conducted Power Line test”, section 5

5.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab’s open site III.

5.3 The photos of radiated test configuration, please refer to appendix A.

6 LIMIT OF RADIATED EMISSION CLASS B

CISPR 22

Frequency (MHz)	Measurement Distance	Limit (dBuV/m)
30 - 230	10 (M)	30
230 - 1000	10 (M)	37

6.1 The tighter limit shall apply at the edge between two frequency bands.

6.1 Measurement distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or peripherals.



7 RESULT OF RADIATED EMISSION TEST

- 7.1 The frequency range from 30 MHz to 1 GHz was investigated.
- 7.2 All readings below or equal 1 GHz are quasi-peak or peak values with resolution bandwidth of 120 KHz.
- 7.3 All readings above 1 GHz are average or peak values with resolution bandwidth of 1 MHz
- 7.4 The measurements were made at 10 meters of HomeTek Lab's open site III.
- 7.5 Temperature : 33 , Humidity : 55 % RH.
- 7.6 Deviation form the test standards and rules : None
- 7.7 The radiation emission result were gained by the following method :
Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor
Over Limit = Level – Limit Line
- 7.8 The radiated mission test was passed at minimum margin :
Horizontal 192.02 MHz/ 27.13 dBuV/m, Antenna Height 4 Meter,
Turn Table 180 degree, The Mode: USB Mode .
- 7.9 Result : **PASSED**



HomeTek Technology Inc.

FCC ID: Q4JKBFK101

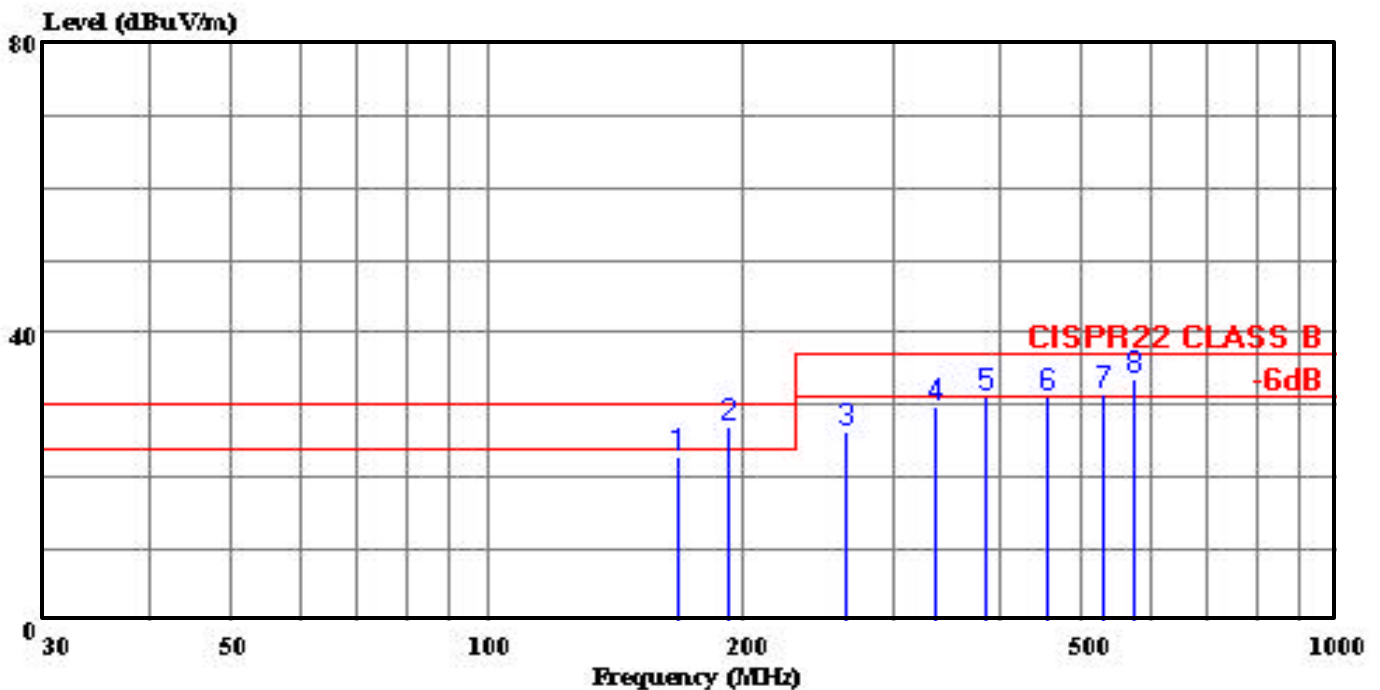
No 67-9, Shi-Men Rd., Tu-Chen City,
Taipei County, Taiwan R.O.C.

Tel: 02-22608375

Fax: 02-22748013

Data#: 3 File#: 2d029.emi

Date: 2003-03-15 Time: 18:09:26



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060402 HORIZONTAL

eut : Keyboard

power: FROM PC

memo : USB MODE (USB FULL SYSTEM)

: FK-101

Page: 1

	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB
1	168.033	22.72	30.00	-7.28	36.00	8.73	2.02	24.03 Peak
2 !	192.023	27.13	30.00	-2.87	40.18	8.78	2.18	24.01 QP
3	264.047	26.22	37.00	-10.78	34.55	12.86	2.61	23.80 Peak
4	336.053	29.63	37.00	-7.37	36.12	14.12	2.96	23.57 Peak
5 !	384.009	31.08	37.00	-5.92	35.87	15.48	3.16	23.43 Peak
6 !	456.053	31.24	37.00	-5.76	34.68	16.46	3.39	23.30 Peak
7 !	528.080	31.40	37.00	-5.60	32.60	18.32	3.61	23.13 Peak
8 !	576.073	33.67	37.00	-3.33	34.08	18.80	3.76	22.96 QP



HomeTek Technology Inc.

FCC ID: Q4JKBFK101

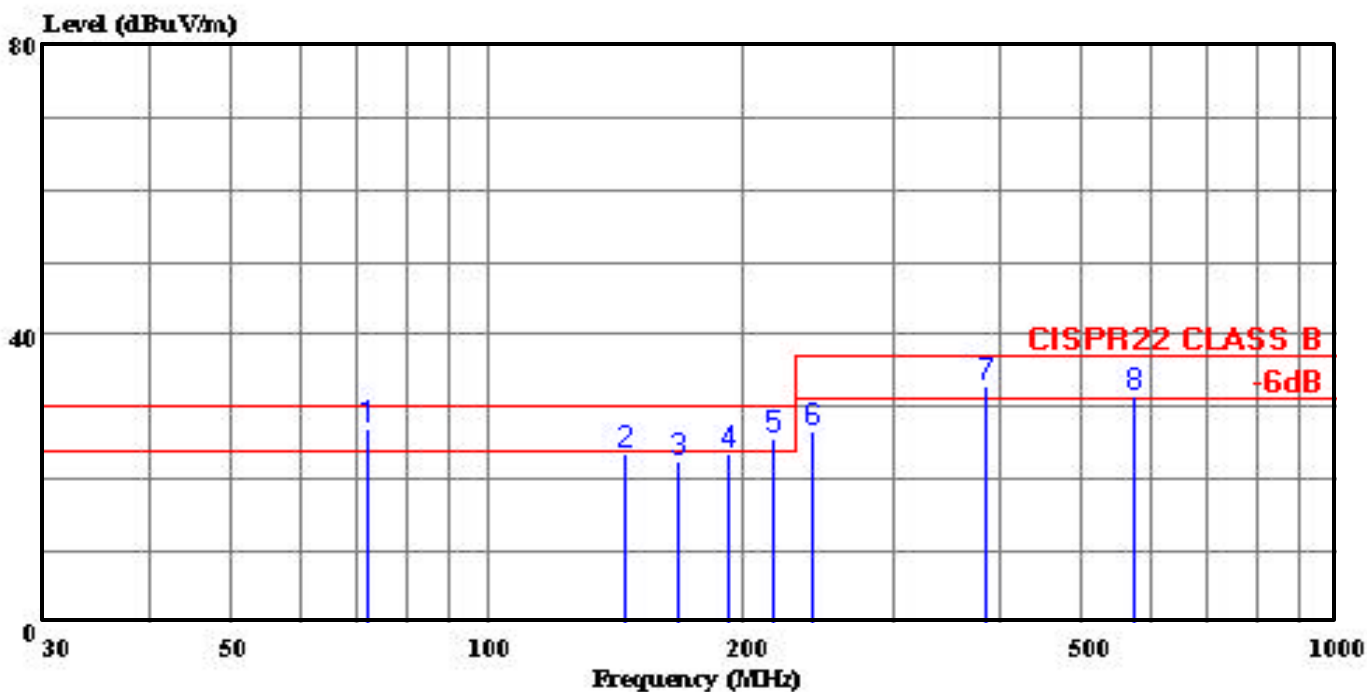
No 67-9, Shi-Men Rd., Tu-Chen City,
Taipei County, Taiwan R.O.C.

Tel: 02-22608375

Fax: 02-22748013

Data#: 4 File#: 2d029.emi

Date: 2003-03-15 Time: 18:38:20



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060402 VERTICAL

eut : Keyboard

power: FROM PC

memo : USB MODE (USB FULL SYSTEM)

: FK-101

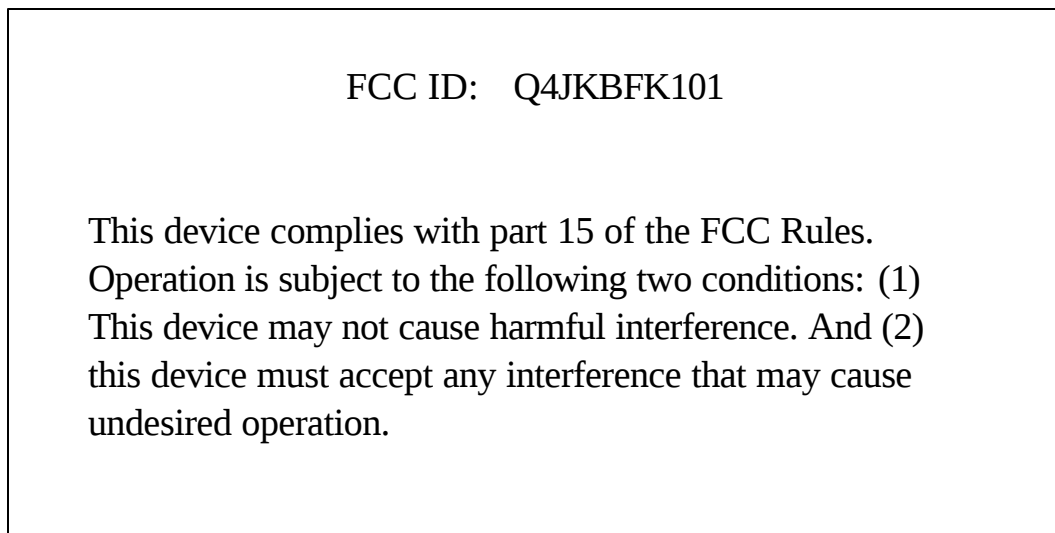
Page: 1

	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	
	MHz	dBUV/m	Line	Limit	Level	Loss	Factor	Remark
	MHz	dBUV/m	dBUV/m	dB	dBUV	dB/m	dB	dB
1 !	71.998	26.85	30.00	-3.15	43.64	5.96	1.31	24.06 Peak
2	144.450	23.39	30.00	-6.61	35.37	10.20	1.86	24.04 Peak
3	168.020	22.39	30.00	-7.61	35.67	8.73	2.02	24.03 QP
4	192.023	23.70	30.00	-6.30	36.75	8.78	2.18	24.01 QP
5 !	216.048	25.57	30.00	-4.43	38.77	8.43	2.33	23.95 Peak
6	239.923	26.64	37.00	-10.36	37.85	10.20	2.47	23.87 Peak
7 !	384.065	32.89	37.00	-4.11	37.68	15.48	3.16	23.43 Peak
8 !	576.360	31.59	37.00	-5.41	32.00	18.80	3.76	22.96 Peak



PHOTO OF FCC ID LABEL

SAMPLE OF FCC ID LABEL :



Please refer to appendix B photo of ID location.



HomeTek Technology Inc.

Appendix A

PHOTOS OF TEST CONFIGURATION

PHOTO OF CONDUCTED POWER LINE TEST

Test Mode : USB Mode



Front View



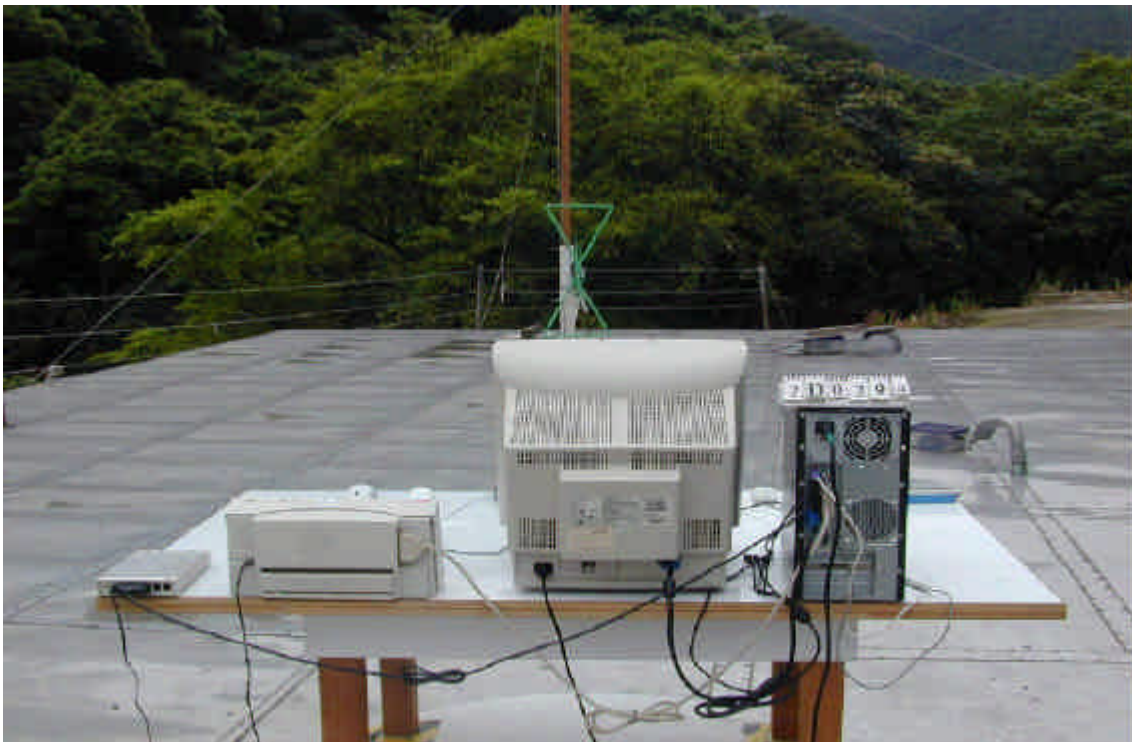
Rear View

PHOTO OF RADIATED EMISSION TEST

Test Mode : USB Mode



Front View



Rear View



Appendix B

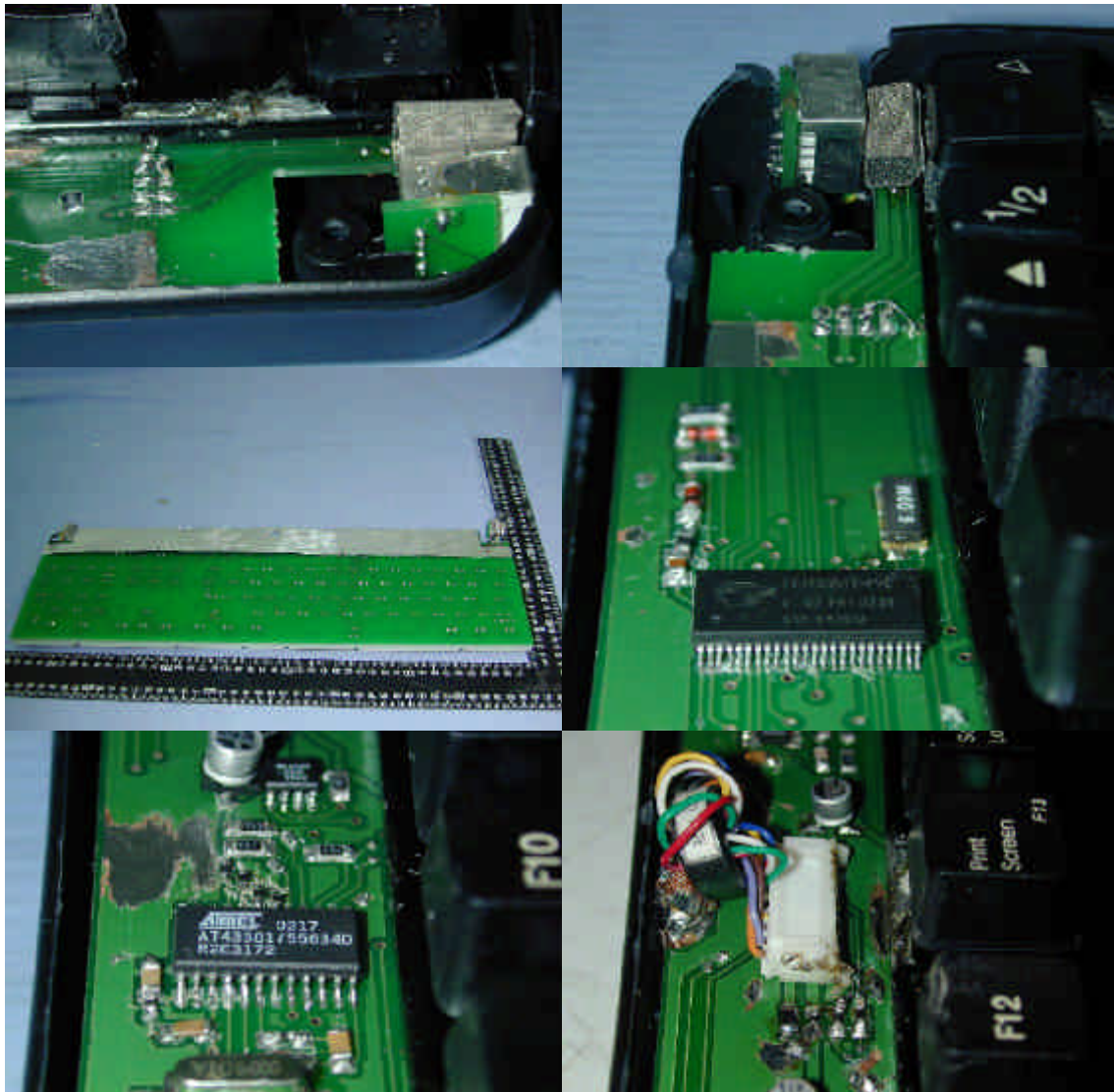
PHOTOS OF EUT

PHOTO OF EUT



Full View of EUT

PHOTO OF EUT

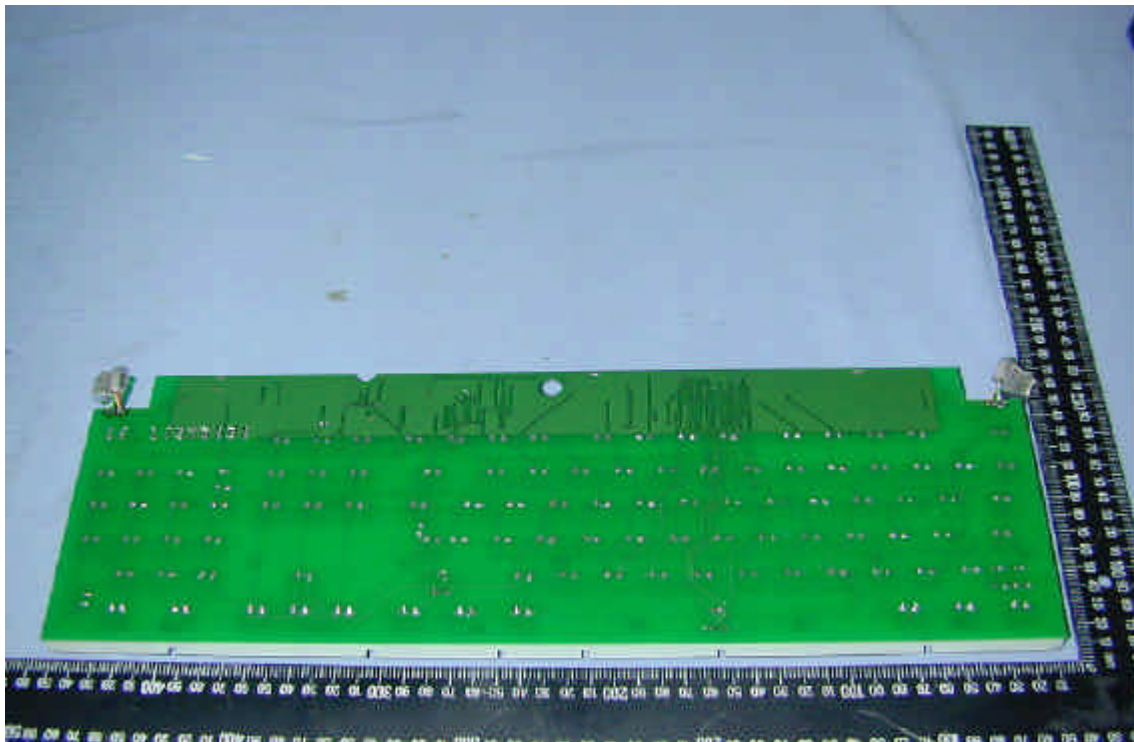


Full View of EMI Solution

PHOTO OF EUT



Component Side of Main Board



Solder Side of Main Board