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GENERAL INFORMATION

1 APPLICANT : CHENG UEI PRECISION INDUSTRY CO., LTD.

2 ADDRESS : No. 18, Chung Shan Rd.,
Tu-Cheng Industry Park, Tu-Cheng City,
Taipei Hsien, Taiwan, R. O. C.

3 MANUFACTURER : CHENG UEI PRECISION INDUSTRY CO., LTD.

4 ADDRESS : No. 18, Chung Shan Rd.,
Tu-Cheng Industry Park, Tu-Cheng City,
Taipei Hsien, Taiwan, R. O. C.

5 DESCRIPTION OF EUT :

EUT	:	15" LCD MONITOR
FCC ID	:	M6EFPD1510
Model Number	:	FPD1510
Serial #	:	N/A
Data Cable	:	SHIELDED
Power Cord	:	UN-SHIELDED
Power Supply Type	:	ADAPTOR

6 FEATURES OF EUT :

6.1 LCD Panel

- LCD Type : TFT Active Matrix
- Viewable Image Size : 15.1”
- Screen Treatment : Anti-Glare / Hard Coating (3H)
- Pixel Pitch : 0.30mm x 0.30mm
- Color Filters : RGB Vertical Stripes

6.2 Video Input

- Max . Resolution : 1024 x 768 @ 85Hz
- H. Frequency :30-70kHz
- V. Frequency : 50-85kHz

6.3 LCD Performance

- Native Resolution : 1024 x 768
- Luminance : 200 cd /m2
- Contrast Ratio : 200:1
- Response Time : 50msec
- Display Colors : 16.19 million
- H. Viewing Angle : 120° (Typical)

6.4 Power

- Input Supply : 100-240 VAC , 50 / 60 Hz
- Output Supply : 12V DC , 3.5A

6.5 Power Consumption

- Normal : < 35W
- Suspend : <4W
- Active Off : <4W

6.6 Environment

- Operating Temp. : 32° to 122° F (0° to 50° C)
- Storage Temp. : -13° to 140° F (-25° to 60° C)
- Operating Humidity : 10% to 90% (Non-Condensing)

MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model #	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30	FEB/99
2	LISN	50Ω/50uH/100A 9KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121	FEB/99
3	LISN	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5	FEB/99
4	ESXS-K1	Version 2.03b	ROHDE & SCHWARZ	1082.9678.02 840.913/246	N/A
5	Cables	10KHz ~ 30MHz		NO : 10	JUL/99
6	Pulse Limiter	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3Z2 357.8810.52	JUL/99

2 TEST PROCEDURE

2.1 The EUT was tested according to **EN55022** Class B.

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.

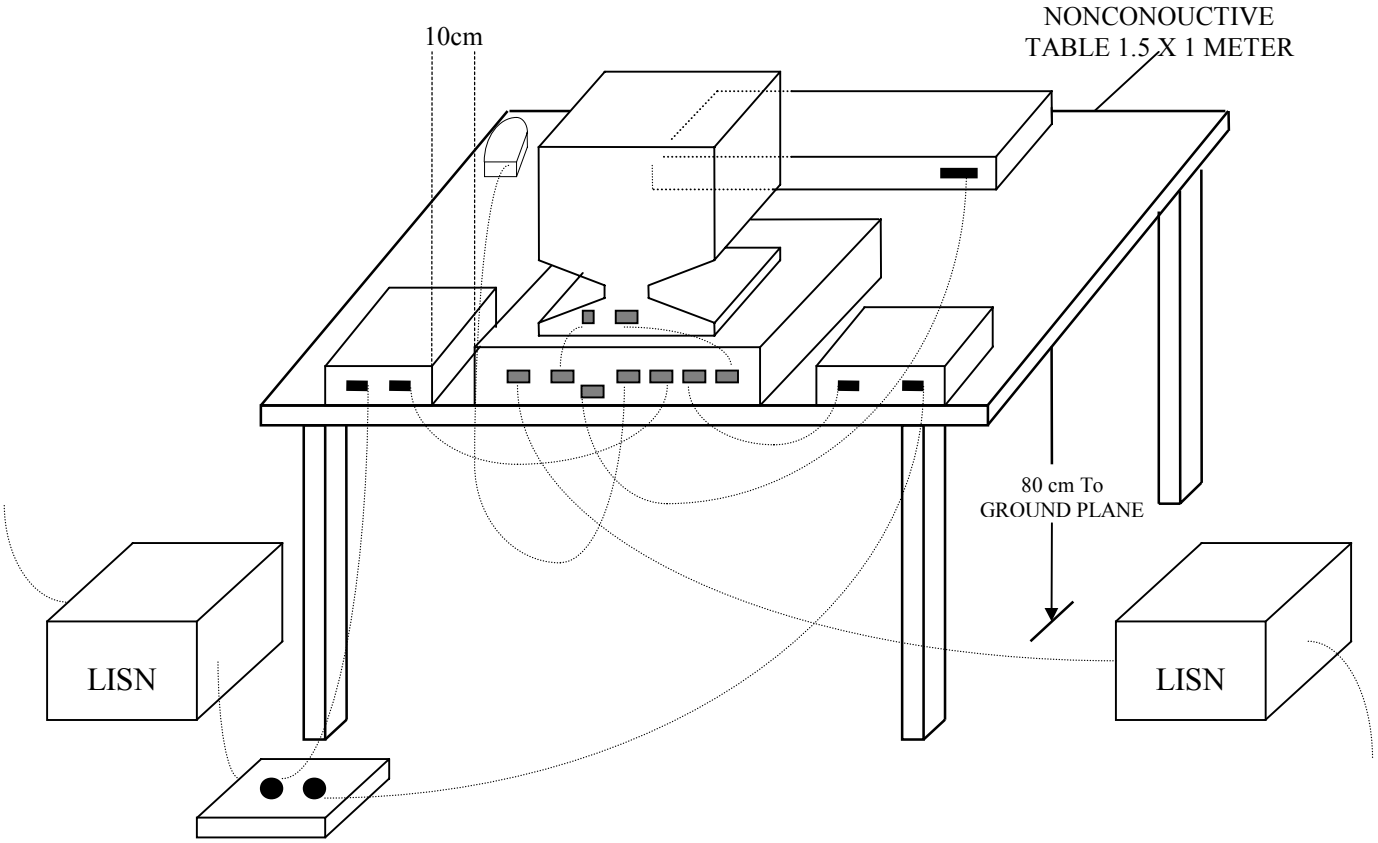
2.4 The LISN used was 50 Ohm / 50 uHenry as specified by **EN55022,** and AC power source is 110V/60Hz.

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

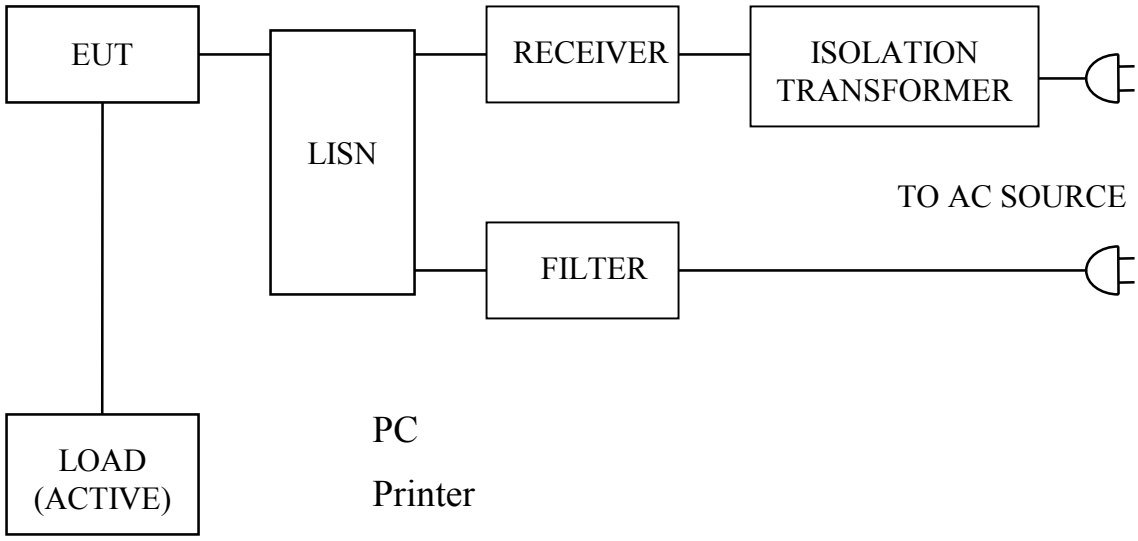
2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.

3 TEST SETUP

3.1 Typical : Setup Of Conducted Test



3.2 Block Diagram Of Conducted Test



PC

Printer

Modem

Mouse

Key Board

Adaptor

4 CONFIGURATION OF THE EUT

The EUT was configured according to **EN55022**. 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 :
Connector Type	:	Metal Type ☐Plastic Type
Device	:	15" LCD MONITOR
Manufacturer	:	CHENG UEI
Model Number	:	FPD1510
Serial Number	:	N/A
FCC ID	:	OH5EX7P
Data Cable	:	Shielded
Power Cord	:	Un-Shielded, 1.8 m

4.2 PERIPHERALS

Host Personal Computer

Manufacturer	:	UMAX
Model Number	:	UDLX-A0
Serial Number	:	FP8500005X2A
FCC ID	:	FCC DoC
Data Cable	:	Shielded
Power Cord	:	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	:	DATATRONIC
Model Number	:	2814CX
Serial Number	:	1150541132
FCC ID	:	FCC DoC
Data Cable	:	Shielded, 1.5 m, Connected to the COM port
Power Cord & Adaptor	:	Un-Shielded, 1.8 m

Mouse (PSII)

Manufacturer	:	HP
Model Number	:	M-S34
Serial Number	:	LZA72270791
FCC ID	:	DZL211029
Data Cable	:	Shielded, 1.8 m, Connected to the PSII port
Power Cord	:	N/A

KeyBoard (PSII)

Manufacturer	:	AST
Model Number	:	SK-2000REW
Serial Number	:	N/A
FCC ID	:	GYUR26SK
Data Cable	:	Shielded, 1.5 m, Connected to the PSII port
Power Cord	:	N/A

KeyBoard (USB)

Manufacturer	:	SILITEK
Model Number	:	SK-2000U
Serial Number	:	N/A
FCC ID	:	GYUR50SK
Data Cable	:	Shielded, 1.5 m, Connected to the USB port
Power Cord	:	N/A

Adaptor

Manufacturer	:	LSE
Model Number	:	LSE 9802A1240
Serial Number	:	000034
FCC ID	:	N/A
Data Cable	:	N/A
Power Cord	:	Un-Shielded

4.3 Internal Devices

VGA Card

Manufacturer	:	LEADTEK
Model Number	:	LR 2634
Serial Number	:	N/A
FCC ID	:	FCC DoC
Data Cable	:	Shielded
Power Cord	:	N/A

4.4	REMARK :	:	SK-2000U
		:	N/A

5 EUT OPERATING CONDITION

5.1 Operating condition is according to **EN55022**.

5.2 The oscillator frequency of the EUT were 94.5 MHz.

5.3 Turn on the power 110VAC/60Hz 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

5.4.4 Keyboard

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B :

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

7 RESULT OF CONDUCTED POWER LINE TEST (1)

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 : 75 % RH.

7.4 Deviations from the specifications : None

7.5 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.164	53.25	53.09	65.26
0.495	34.63	35.31	56.08
0.880	33.11	35.03	56.00
3.240	31.06	29.48	56.00
7.850	28.27	34.40	60.00
22.560	27.15	25.12	60.00

7.6 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.163	43.02	43.52	55.31
0.438	28.19	30.79	47.10
0.880	29.49	31.33	46.00
3.240	29.68	26.77	46.00
7.025	22.19	31.01	50.00
22.560	22.23	19.79	50.00

REMARK :

1. Model : FPD1510
2. Measuring mode : 1024 x 768 (LG)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

8 RESULT OF CONDUCTED POWER LINE TEST (2)

8.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

8.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.

8.3 Temperature : 27 □, Humidity : 75 % RH.

8.4 Deviations from the specifications : None

8.5 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.164	53.07	52.73	65.26
0.385	35.92	36.16	58.17
0.880	32.38	33.69	56.00
3.400	30.92	29.78	56.00
7.625	27.17	34.19	60.00
20.960	26.67	31.40	60.00

8.6 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.164	42.19	42.40	55.26
0.439	28.53	31.31	47.08
0.658	29.41	31.35	46.00
4.880	31.94	30.92	46.00
8.450	22.17	30.54	50.00
20.800	22.04	25.05	50.00

REMARK :

1. Model : FPD1510
2. Measuring mode : 800 x 600 (LG)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

9 RESULT OF CONDUCTED POWER LINE TEST (3)

9.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

9.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.

9.3 Temperature : 27 □, Humidity : 75 % RH.

9.4 Deviations from the specifications : None

9.5 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.164	53.07	52.63	65.26
0.385	36.02	36.16	58.17
0.880	32.11	33.85	56.00
3.240	30.32	29.40	56.00
8.074	26.21	33.33	60.00
18.960	26.04	31.48	60.00

9.6 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.163	42.49	42.27	55.31
0.439	28.17	31.10	47.08
1.040	28.53	30.02	46.00
3.240	28.68	25.96	46.00
8.074	20.06	30.10	50.00
18.960	20.18	25.09	50.00

REMARK :

1. Model : FPD1510
2. Measuring mode : 640 x 480 (LG)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

10 RESULT OF CONDUCTED POWER LINE TEST (4)

10.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

10.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.

10.3 Temperature : 27 □, Humidity : 75 % RH.

10.4 Deviations from the specifications : None

10.5 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.165	56.53	54.62	65.21
0.332	38.68	36.32	59.40
0.880	31.61	34.95	56.00
3.200	29.40	29.24	56.00
8.225	27.68	33.96	60.00
20.960	26.91	31.21	60.00

10.6 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.167	45.24	43.91	55.11
0.332	31.50	30.25	49.40
0.880	28.31	31.78	46.00
4.640	29.71	30.55	46.00
8.225	22.17	30.71	50.00
20.800	21.96	26.05	50.00

REMARK :

1. Model : FPD1510
2. Measuring mode : 1024 x 768 (SHARP)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

11 RESULT OF CONDUCTED POWER LINE TEST (5)

11.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

11.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.

11.3 Temperature : 27 □, Humidity : 75 % RH.

11.4 Deviations from the specifications : None

11.5 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.164	53.76	53.80	65.26
0.385	35.96	36.26	58.17
0.880	32.80	34.84	56.00
3.080	30.17	29.04	56.00
8.300	26.70	33.73	60.00
20.880	26.53	29.86	60.00

11.6 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.163	43.68	43.96	55.31
0.440	28.67	31.33	47.06
0.880	29.40	31.59	46.00
3.080	28.29	25.62	46.00
8.300	20.99	30.51	50.00
20.880	21.13	25.03	50.00

REMARK :

1. Model : FPD1510
2. Measuring mode : 800 x 600 (SHARP)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

12 RESULT OF CONDUCTED POWER LINE TEST (6)

12.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

12.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.

12.3 Temperature : 27 □, Humidity : 75 % RH.

12.4 Deviations from the specifications : None

12.5 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.165	53.41	52.85	65.21
0.385	35.72	35.88	58.17
0.880	32.70	34.54	56.00
3.240	30.40	29.08	56.00
8.075	26.87	33.26	60.00
21.040	25.99	30.65	60.00

12.6 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.162	42.16	42.40	55.36
0.440	28.85	29.84	47.06
0.880	29.07	30.95	46.00
3.240	28.05	25.86	46.00
8.075	20.20	28.43	50.00
20.880	19.72	24.48	50.00

REMARK :

1. Model : FPD1510
2. Measuring mode : 640 x 480 (SHARP)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

13 PHOTO OF CONDUCTED POWER LINE TEST
Test Mode : 1024 x 768 (LG)

Front View

Rear View

14 PHOTO OF CONDUCTED POWER LINE TEST
Test Mode : 1024 x 768 (SHARP)

Front View

Rear View

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#	Location	Date of Cal.
1	OPEN AREA TEST SITE	☐ OATS 1 OATS 2				JUN/99 JUN/99
2	SPECTRUM ANALYZER	9KHz ~ 1.8GHz	HP	HP8591 3710A06158	Open Site I	MAR/99
3	EMI TEST RECEIVER	20MHz ~ 1GHz	ROHDE & SCHWARZ	ESVS10 845165/017	Open Site I	MAR/99
4	PRE-AMPLIFIER	0.1MHz ~ 1.3 GHz	HP	8447D 1937A02095	Open Site I	MAY/99
5	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	Open Site II	APR/99
6	PRE-AMPLIFIER	20MHz ~ 7GHz	ROHDE & SCHWARZ	ESMI-Z7 846363/001	Open Site II	APR/99
7	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520 S/N:1096	Open Site II	MAR/99
8	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520 S/N:1095	Open Site I	MAR/99
9	CABLES	30MHz ~ 1GHz		No. 2, No. 4 No. 1, No. 3	OATS 1 OATS 2	JUL/99 JUL/99
10	ANTENNA (DIPOLE)	30 ~ 300MHz	ROHDE & SCHWARZ	HZ-12 842899/08		JUL/99
11	ANTENNA (DIPOLE)	300 ~ 1000MHz	ROHDE & SCHWARZ	HZ-13 842007/0004		JUL/99
12	EMIVM	30 ~ 1000MHz	AUDIX	A582445 A582443	OATS 1 OATS 2	N/A

Note : 1. Items 1 ~ 9 upon which need to calibrated are with period of 1 year, except item 10-11.
2. Items 5 is used for the final measurement.

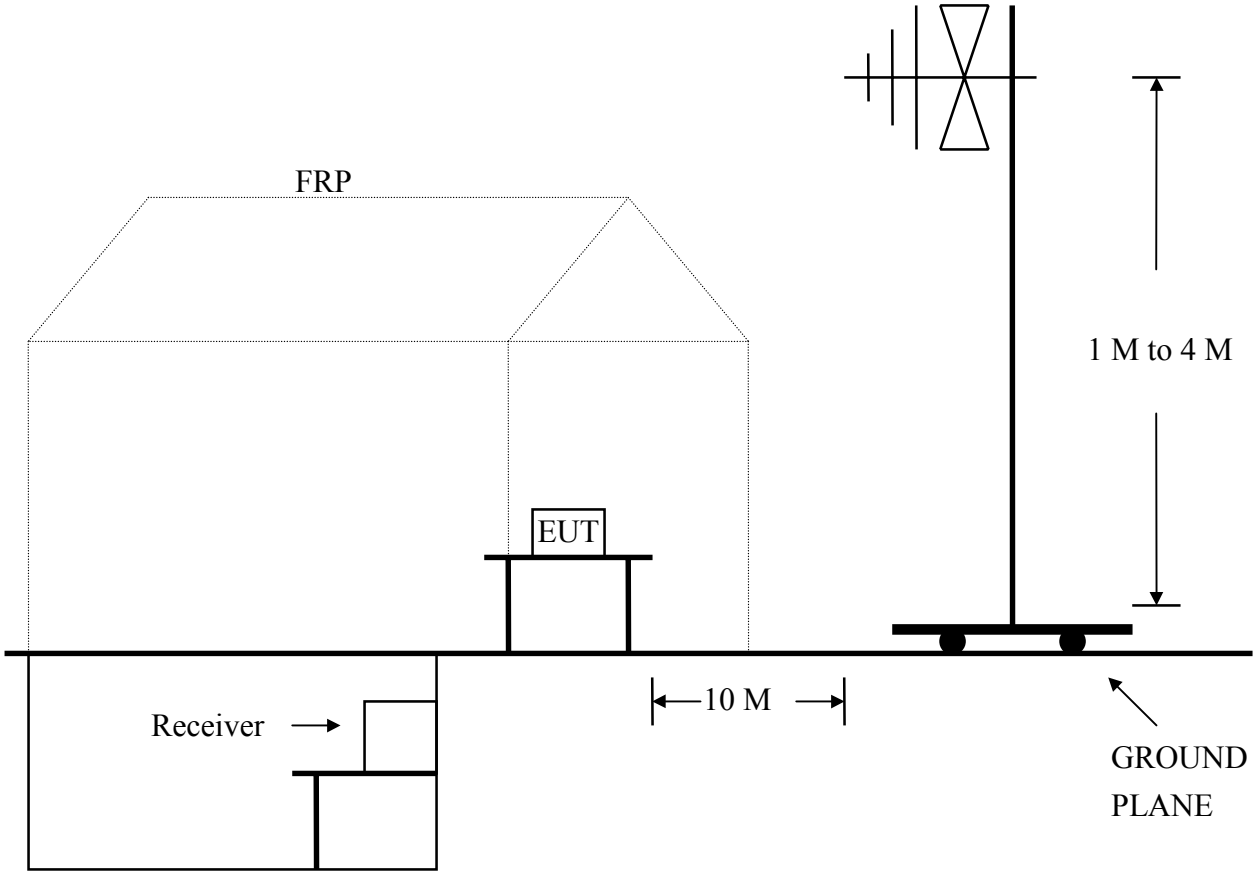
2 TEST PROCEDURE

2.1 The EUT was test according to **EN55022**.

2.2 The radiated test was performed at HomeTek Lab's Open Site II.

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



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 II.

6 LIMIT OF RADIATED EMISSION CLASS B :

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

7 RESULT OF RADIATED EMISSION TEST (1)

7.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

7.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 10 meters.

7.3 The measurements were made at 10 meters of HomeTek Lab's open site II.

7.4 Temperature : 27 □, Humidity : 75 % RH.

7.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
68.58	11.03	5.48	0.71	17.22	30
130.10	13.64	9.18	0.96	23.78	30
162.62	13.68	8.71	1.04	23.43	30
283.58	12.79	15.45	1.45	29.69	37
357.77	12.12	15.68	1.60	29.40	37
472.62	11.32	17.22	1.93	30.47	37
520.37	12.92	18.54	2.08	33.54	37
850.74	8.37	22.70	2.79	33.86	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 850.74 MHz .
- Corrected Reading : (8.37) + (22.70) + (2.79) = 33.86 . (Emission Level)

7.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
80.02	17.91	6.85	0.84	25.60	30
116.48	12.00	11.25	0.94	24.19	30
162.59	16.32	8.82	1.05	26.19	30
227.66	12.76	11.77	1.32	25.85	30
285.99	7.40	13.00	1.47	21.87	37
325.25	18.39	13.62	1.52	33.53	37
455.32	11.97	16.67	1.80	30.44	37
520.38	10.43	18.29	2.08	30.80	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 520.38 MHz .
- Corrected Reading : (10.43) + (18.29) + (2.08) = 30.80 . (Emission Level)

REMARK :

1. Model : FPD1510
2. Measuring mode : 1024 x 768 (LG)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

8 RESULT OF RADIATED EMISSION TEST (2)

8.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

8.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 10 meters.

8.3 The measurements were made at 10 meters of HomeTek Lab's open site II.

8.4 Temperature : 27 □, Humidity : 75 % RH.

8.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
68.40	10.25	5.48	0.71	16.44	30
130.09	14.17	9.18	0.96	24.31	30
162.58	13.61	8.60	1.05	23.26	30
227.65	13.11	12.27	1.32	26.70	30
260.16	16.42	14.75	1.35	32.52	37
288.03	9.89	15.59	1.50	26.98	37
472.64	11.80	17.22	1.93	30.95	37
552.88	10.25	19.75	2.21	32.21	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 552.88 MHz .
- Corrected Reading : (10.25) + (19.75) + (2.21) = 32.21 . (Emission Level)

8.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
58.97	14.49	10.16	0.71	25.36	30
113.96	13.11	10.99	0.94	25.04	30
130.10	11.89	12.07	0.96	24.92	30
227.66	11.13	11.77	1.32	24.22	30
325.23	18.36	13.62	1.52	33.50	37
455.33	11.64	16.67	1.80	30.11	37
520.36	11.75	18.29	2.08	32.12	37
585.42	8.02	20.13	2.29	30.44	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 585.42 MHz .
- Corrected Reading : (8.02) + (20.13) + (2.29) = 30.44 . (Emission Level)

REMARK :

1. Model : FPD1510
2. Measuring mode : 800 x 600 (LG)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

9 RESULT OF RADIATED EMISSION TEST (3)

9.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

9.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 10 meters.

9.3 The measurements were made at 10 meters of HomeTek Lab's open site II.

9.4 Temperature : 27 □, Humidity : 75 % RH.

9.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
67.81	8.55	5.65	0.81	15.01	30
130.09	14.43	9.18	0.96	24.57	30
164.35	7.59	9.01	1.04	17.64	30
260.17	16.57	14.75	1.35	32.67	37
472.64	13.66	17.22	1.93	32.81	37
552.88	10.48	19.68	2.11	32.27	37
585.42	8.96	20.83	2.29	32.08	37
650.44	5.58	24.07	2.36	32.01	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 650.44 MHz .
- Corrected Reading : (5.58) + (24.07) + (2.36) = 32.01 . (Emission Level)

9.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
55.98	15.13	10.89	0.76	26.78	30
113.95	11.72	10.99	0.94	23.65	30
130.08	11.48	12.07	0.96	24.51	30
184.97	12.10	9.89	1.14	23.13	30
206.51	10.05	10.59	1.19	21.83	30
227.66	9.74	11.77	1.32	22.83	30
352.22	17.45	13.62	1.52	32.59	37
585.42	8.44	20.13	2.29	30.86	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 585.42 MHz .
- Corrected Reading : (8.44) + (20.13) + (2.29) = 30.86 . (Emission Level)

REMARK :

1. Model : FPD1510
2. Measuring mode : 640 x 480 (LG)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

10 RESULT OF RADIATED EMISSION TEST (4)

10.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

10.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 10 meters.

10.3 The measurements were made at 10 meters of HomeTek Lab's open site II.

10.4 Temperature : 27 □, Humidity : 75 % RH.

10.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
68.52	15.63	5.48	0.71	21.82	30
114.39	7.91	9.89	0.99	18.79	30
288.02	7.00	15.59	1.50	24.09	37
357.72	13.67	15.68	1.60	30.95	37
472.56	7.99	17.22	1.93	27.14	37
520.30	6.27	18.54	2.08	26.89	37
756.12	6.54	24.57	2.62	33.73	37
850.46	5.71	22.70	2.79	31.20	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 850.46 MHz .
- Corrected Reading : (5.71) + (22.70) + (2.79) = 31.20 . (Emission Level)

10.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
113.94	13.04	10.99	0.94	24.97	30
149.49	13.75	8.59	1.04	23.38	30
162.58	16.78	8.82	1.05	26.65	30
195.14	14.56	10.11	1.19	25.86	30
227.62	13.88	11.77	1.32	26.97	30
472.57	9.67	17.09	1.93	28.69	37
756.10	7.91	22.00	2.62	32.53	37
850.66	8.86	21.90	2.79	33.55	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 850.66 MHz .
- Corrected Reading : (8.86) + (21.90) + (2.79) = 33.55 . (Emission Level)

REMARK :

1. Model : FPD1510
2. Measuring mode : 1024 x 768 (SHARP)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

11 RESULT OF RADIATED EMISSION TEST (5)

11.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

11.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 10 meters.

11.3 The measurements were made at 10 meters of HomeTek Lab's open site II.

11.4 Temperature : 27 □, Humidity : 75 % RH.

11.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
68.54	15.63	5.48	0.71	21.82	30
162.58	13.49	8.60	1.05	23.14	30
227.63	9.79	12.27	1.32	23.38	30
357.72	10.82	15.68	1.60	28.10	37
422.74	7.59	16.05	1.88	25.52	37
520.33	5.07	18.54	2.08	25.69	37
756.08	6.74	24.57	2.62	33.93	37
850.63	6.09	22.70	2.79	31.58	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 850.63 MHz .
- Corrected Reading : (6.09) + (22.70) + (2.79) = 31.58 . (Emission Level)

11.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
84.82	13.88	6.97	0.77	21.62	30
150.17	15.05	8.41	1.04	24.50	30
177.11	15.03	10.40	1.09	26.52	30
227.62	13.77	11.77	1.32	26.86	30
283.54	13.09	13.00	1.45	27.54	37
520.30	3.63	18.29	2.08	24.00	37
756.09	6.03	22.00	2.62	30.65	37
850.62	6.95	21.90	2.79	31.64	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 850.62 MHz .
- Corrected Reading : (6.95) + (21.90) + (2.79) = 31.64 . (Emission Level)

REMARK :

1. Model : FPD1510
2. Measuring mode : 800 x 600 (SHARP)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

12 RESULT OF RADIATED EMISSION TEST (6)

12.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

12.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 10 meters.

12.3 The measurements were made at 10 meters of HomeTek Lab's open site II.

12.4 Temperature : 27 □, Humidity : 75 % RH.

12.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
68.53	15.38	5.48	0.71	21.57	30
120.00	6.59	10.40	0.96	17.95	30
227.62	10.09	12.27	1.32	23.68	30
260.13	7.14	14.72	1.36	23.22	37
357.72	11.84	15.68	1.60	29.12	37
422.74	11.09	16.05	1.88	29.02	37
472.57	10.79	17.22	1.93	29.94	37
520.31	4.39	18.54	2.08	25.01	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 520.31 MHz .
- Corrected Reading : (4.39) + (18.54) + (2.08) = 25.01 . (Emission Level)

12.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
51.56	11.69	12.24	0.66	24.59	30
68.52	15.81	9.55	0.71	26.07	30
138.01	9.94	12.18	0.99	23.11	30
184.32	13.88	9.89	1.14	24.91	30
206.49	10.96	10.59	1.19	22.74	30
332.41	11.55	13.79	1.55	26.89	37
472.58	12.26	17.09	1.93	31.28	37
850.61	7.38	21.90	2.79	32.07	37

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 850.61 MHz .
- Corrected Reading : (7.38) + (21.90) + (2.79) = 32.07 . (Emission Level)

REMARK :

1. Model : FPD1510
2. Measuring mode : 640 x 480 (SHARP)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

13 PHOTO OF RADIATED EMISSION TEST
Test Mode : 1024 x 768 (LG)

Front View

Rear View

14 PHOTO OF RADIATED EMISSION TEST
Test Mode : 1024 x 768 (SHARP)

Front View

Rear View

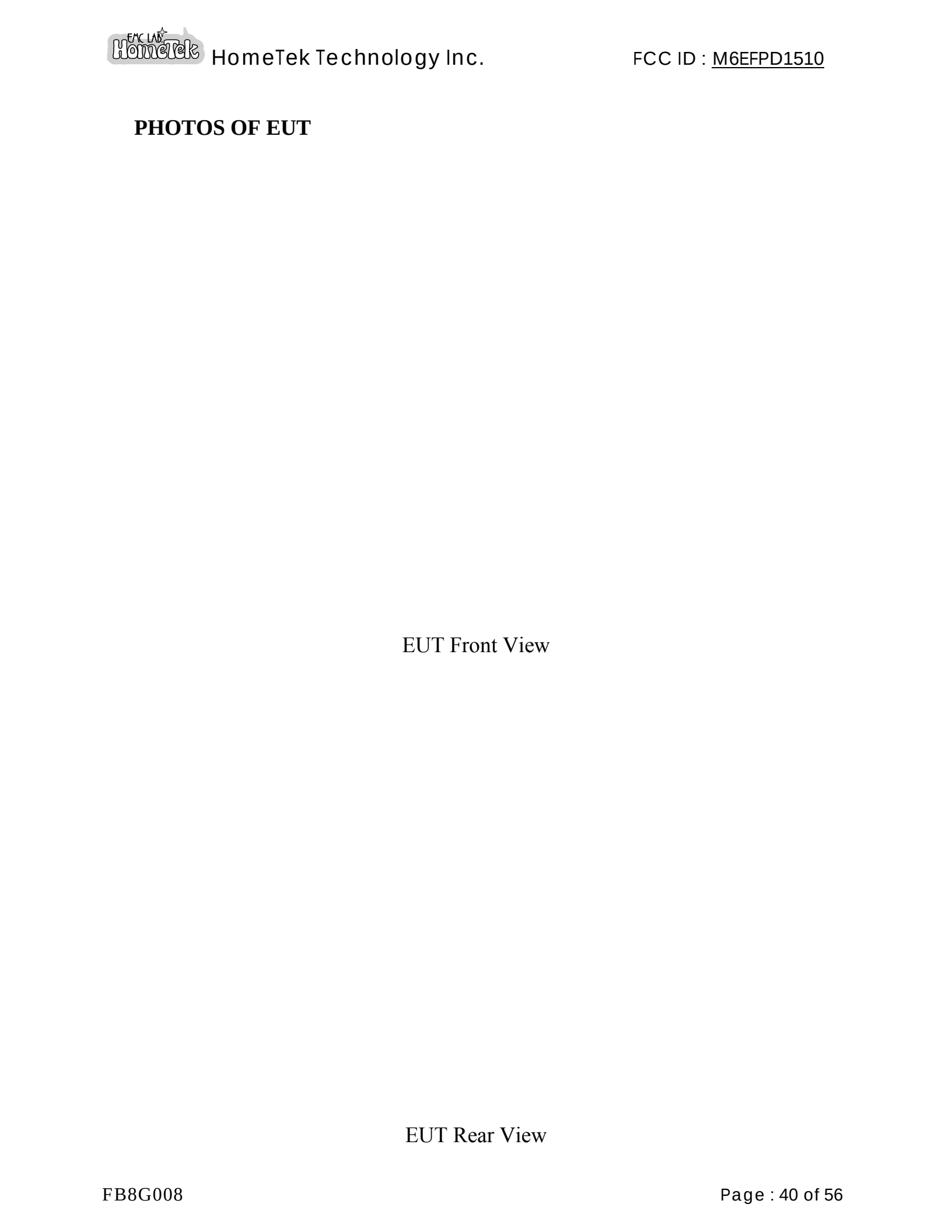
PHOTO OF FCC ID LABEL

SAMPLE OF FCC ID LABEL :

FCC ID : M6EFPD1510

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 that may cause undesired operation.

PHOTOS OF EUT



EUT Front View

EUT Rear View

PHOTOS OF EUT

Main Board Component Side View

PHOTOS OF EUT

Main Board Solder Side View

PHOTOS OF EUT

LG LCD Panel Front View

LG LCD Panel Rear View

PHOTOS OF EUT

LG LCD Panel Inside View(1)

LG LCD Panel Inside View(2)

PHOTOS OF EUT

LG LCD Panel Inside View(3)

PHOTOS OF EUT

LG LCD Inverter Component Side View

LG LCD Inverter Solder Side View

PHOTOS OF EUT

SHARP LCD Panel Front View

SHARP LCD Panel Rear View

PHOTOS OF EUT

SHARP LCD Panel Inside View(1)

SHARP LCD Panel Inside View(2)

PHOTOS OF EUT

SHARP LCD Panel Inside View(3)

PHOTOS OF EUT

SHARP LCD Inverter Component Side View

SHARP LCD Inverter Solder Side View

PHOTOS OF EUT

Connect Board Component Side View

Connect Board Solder Side View

PHOTOS OF EUT

Switch Component Side View

Switch Solder Side View

PHOTOS OF EUT

Adaptor Front View

Adaptor Rear View

PHOTOS OF EUT

Adaptor Inside View

PHOTOS OF EUT

Adaptor Main Board Component Side View

Adaptor Main Board Solder Side View

PHOTOS OF EUT

Data Cable

Power Cable