



## **HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.**

Product Compliance Division, EMC Team  
SAN 136-1, AMI-RI, BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701, KOREA  
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## **CERTIFICATION**

**Manufacture:**  
**IMAGEQUEST CO., LTD.**

**SAN 136-1, AMI-RI, BUBAL-EUP, ICHEON-SI,  
KYOUNKI-DO, 467-701, KOREA**

**IMAGEQUEST FRN : 0005-8664-39**

**Date of Issue : MARCH 4, 2003**

**Test Report No.: HCT-F03-0301**

**Test Site: HYUNDAI CALIBRATION & CERTIFICATION  
TECHNOLOGIES CO., LTD.**

**HCT FRN : 0005-8664-21**

**FCC ID :**

**PJIL17A0D080**

**MODEL / TYPE :**

**L70S/L17A0D080**

**Rule Part(s):** Part 15 & 2; ET Docket 95-19  
**Equipment Class:** FCC Class B Peripheral Device (JBP)  
**Standard(s):** FCC Class B: 1998 (CISPR 22)  
**EUT Type:** 17" LCD Monitor  
**Max. Resolution(s):** 1280 X 1024 (@80.0KHz/ 75Hz)  
**Model(s):** L70S  
**Port/Connector(s)** 15-pin D-sub VGA connector, AUDIO IN/OUT.

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-1992 (Grant Notes: #19, #28).

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Ki Soo Kim

Report prepared by : Ki-Soo Kim

Manager of EMC Tech. Part



**HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.**



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# MEASUREMENT REPORT

## 1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

**Applicant Name:** IMAGEQUEST

**Address:** SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI,  
KYOUWKI-DO, 467-701,KOREA

- **FCC ID : PJIL17A0D080**
- Equipment Class: FCC Class B Peripheral Device (JBP)
- EUT Type: 17" LCD MONITOR
- Model(s): L70S
- Max. Resolution: 1280 X 1024 (@80.0KHz/ 75Hz)
- Frequency Range: V-Sync: 56Hz – 75Hz , H-Sync: 31KHz – 80KHz
- Cable(s): Shielded D-Sub (with ferrite on both ends)
- Power Cord: Unshielded
- Rule Part(s): FCC Part 15 Subpart B
- Test Procedure(s): ANSI C63.4 (1992)
- Dates of Tests: February 7, 2003 ~ February 21, 2003
- Place of Tests: 254-1,MAEKOK-RI,HOBUP-MYUN,ICHON-SI,KYOUWKI-DO,467-701,KOREA

## 2.1 INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSIC63.4-1992) was used in determining radiated and conducted emissions emanating from **IMAGEQUEST CO.,LTD. 17-inch LCD Monitor FCC ID: PJIL17A0D080**

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, MAEKOK-RI, HOBUP-MYUN, ICHON-SI, KYOUNGKI-DO, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 24, 2000 (Confirmation Number: EA90661)

## 3.1 PRODUCT INFORMATION

### 3.2 Equipment Description

Equipment Under Test (EUT) is the **IMAGEQUEST CO.,Ltd. ( Model : L70S ) 17-inch LCD Monitor**

FCC ID: : **PJIL17A0D080**

Maximum Resolution(s): 1280 X 1024 (@80.0KHz/ 75Hz)

Frequency Range(s): H-Sync: 31KHz – 80KHz

V-Sync: 56Hz – 75 Hz

Pixel Pitch: 0.264mm

Power Supply: AC 100-240V 60/ 50Hz 1.0A

Power Cord: *Unshielded* AC power cord

Port(s)/Input Connector(s): 15-pin D-sub VGA connector, AUDIO IN/OUT

Cable(s): Shielded D-Sub (with ferrite on both ends)

Dimensions (WxHxD): 396x414x200mm(WxHxD)

Weight (Net):3.7Kg unpacked

### EMI Suppression Devices:

~ No modifications were made to the device.

## 4.1 Description of Tests(Conducted)

### 4.2 Powerline Conducted RFI (150kHz- 30MHz)

The power line conducted RFI measurements were performed according to CISPR 22.

The EUT was placed on a non-conducting 1.0 by 1.5 meter table which is 0.8 meters in height and 0.40 meters away from the vertical wall of the shielded enclosure. Power to the EUT is provided through a Rohde & Schwarz 50 Ω / 50 uH Line Impedance Stabilization Network (LISN) and the support equipment through a separate Solar 50 Ω / 50 uH Line- Conducted Test Facility LISN. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME. The spectrum was scanned from 150kHz to 30 MHz. Each maximum EME was remeasured using an EMI receiver. The detector function of the receiver was set to CISPR quasi- peak and average mode with the bandwidth set to 9 kHz. Each emission was maximized consistent with the typical applications by varying the configuration of the test sample. Interface cables were connected to the available interface ports of the test unit. The effect of varying the position of cables was investigated to find the configuration that produces maximum Diagram emission. Excess cable lengths were bundled at the centre with 30- 40cm. in length. The worst-case configuration is noted in the test report and the photographs are attached. Each EME reported was calibrated using the Rohde & Schwarz SMX signal generator and are listed on Table 1. RFI Conducted FCC Class B

RFI CONDUCTED	FCC CLASS B Limits dB(uV/m)	CISPR 22 CLASS B Limits dB(uV/m)	
Freq. Range	FCC Class B Quasi-Peak	CISPR 22 Quasi-Peak	CISPR 22 Average
150kHz - 0.5MHz	48*	66-56**	56-46**
0.5MHz - 5MHz	48	56	46
5MHz - 30MHz	48	60	50

\*FCC Class B limits starts from 450kHz  
 \*\*Limits decreases linearly with the logarithm of frequency

Table 1. RFI Conducted Limits

## 4.3 Description of Tests(Radiated)

### Radiated Emissions

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The spectrum was scanned from 30 to 300 MHz using biconical antenna, 300 to 1000 MHz using log- periodic antenna, and above 1 GHz using linearly polarized horn antennas. Final measurements were made outdoors at 10-meter test range using Dipole antennas and EMI receiver. For frequencies above 1 GHz, horn antennas were used. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The EMI receiver detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120 kHz. The EUT, support equipment, and interconnecting cables were arranged to the configuration that produces the maximum EME emission found during preliminary scan. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Horizontal and vertical antenna polarizations were checked. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/ or support equipment, and powering the monitor the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

ITE Radiated Limits			
Frequency (MHz)	FCC Limit @ 3m. Quasi-Peak dB[ $\mu$ V/m]	FCC Limit @ 10m.* Quasi-Peak dB [ $\mu$ V/m]	CISPR Limit @ 10m. Quasi-Peak dB [ $\mu$ V/m]
30-88	40.0	29.5	30.0
88-216	43.5	33.0	30.0
216-230	46.0	35.6	30.0
230-960	46.0	35.6	37.0
960-1000	54.0	43.5	37.0
> 1000	54.0	43.5	No Specified Limit
* Limit extrapolated 20 dB/decade			

Table 2. Radiated Class B limits @ 10-meters

## 5.1 Support Equipment Used

DEVICE TYPE	MANUFACTURER	MODEL NUMBER	FCC ID / DoC	CONNECTED TO
MONITOR (EUT)	IMAGEQUEST CO., LTD.	L70S	PJIL17A0D080	P.C
P.C	H.P	HP Pavilion 8921	DoC	N/A
KEY BOARD	H.P	5181	DoC	P.C
MOUSE	H.P	M-S48a	DoC	P.C
PRINTER	H/P	C4569A	DoC	P.C
SERIAL MOUSE	LOGITECH	M-M28	DoC	P.C
HEADSET	SAMBO COMPUTER	DW-400M	DoC	EUT

## 5.2 Cable Description

	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
MONITOR(EUT)	N	Y	1.8(P), 1.5(D)
PC(HOST)	N	N/A	1.8(P)
KEY BOARD	N/A	Y	1.8(D)
MOUSE	N/A	Y	1.8(D)
PRINTER	N	Y	1.8(P),1.8(D)
SERIAL MOUSE	N/A	Y	1.8(D)
AUDIO IN	N/A	N	1.5(D)
HEADSET	N/A	N	1.8(D)

The marked "(D)" means the Data Cable and "(P)" means the Power Cable.

## 5.3 Noise Suppression Parts on Cable. (I/O CABLE)

	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
MONITOR(EUT)	Y	BOTH END	Y	BOTH END
KEY BOARD	N	N/A	Y	P.C END
MOUSE	N	N/A	Y	P.C END
PRINTER	N	N/A	Y	BOTH END
SERIAL MOUSE	N	N/A	Y	EUT END
AUDIO IN	Y	BOTH END	N	N/A
HEADSET	Y	P.C END	N	N/A

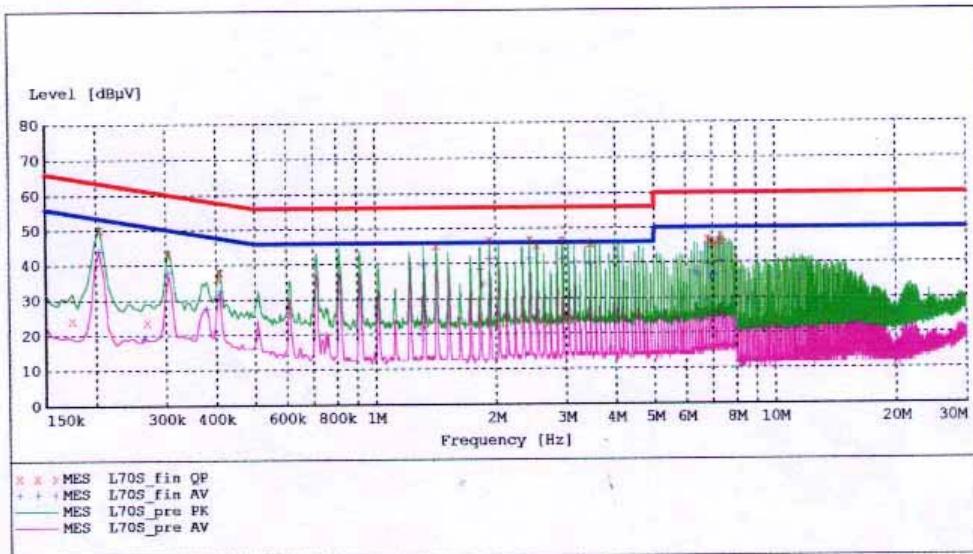
## 6.1 LINE-CONDUCTED TEST DATA

**HYUNDAI C-TECH.**  
**EMC Testing Laboratory**

EUT: L70S  
 Manufacturer: IMAGEQUEST  
 Operating Condition: 1280 X 1024 75Hz  
 Test Site: SHIELD ROOM  
 Operator: KH-SEO  
 Test Specification: CISPER CLASS B  
 Comment: N  
 Start of Test: 2/10/03 / 1:50:28PM

**SCAN TABLE: "EN 55022 Voltage"**

Short Description:		EN 55022 Voltage					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Bandw.	Transducer
150.0 kHz	500.0 kHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				



**MEASUREMENT RESULT: "L70S\_fin\_QP"**

2/10/03 1:54PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.175000	24.40	10.1	65	40.4	1	---
0.205000	50.40	10.1	63	13.0	1	---
0.270000	23.80	10.1	61	37.4	1	---
0.305000	43.50	10.1	60	16.6	1	---
0.405000	36.40	10.1	58	21.3	1	---
0.410000	37.90	10.1	58	19.7	1	---
1.430000	45.30	10.2	56	10.7	1	---
1.940000	46.60	10.3	56	9.4	1	---
2.450000	46.80	10.3	56	9.2	1	---
2.550000	45.10	10.3	56	10.9	1	---
2.960000	46.50	10.2	56	9.5	1	---
3.470000	45.70	10.2	56	10.3	1	---
6.840000	46.80	10.3	60	13.2	1	---
6.940000	46.40	10.3	60	13.6	1	---

**MEASUREMENT RESULT: "L70S\_fin QP"**

(continued)

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
7.045000	45.20	10.3	60	14.8	1	---
7.250000	46.10	10.3	60	13.9	1	---
7.350000	47.80	10.3	60	12.2	1	---
7.455000	45.60	10.3	60	14.4	1	---

**MEASUREMENT RESULT: "L70S\_fin AV"**

2/10/03 1:54PM

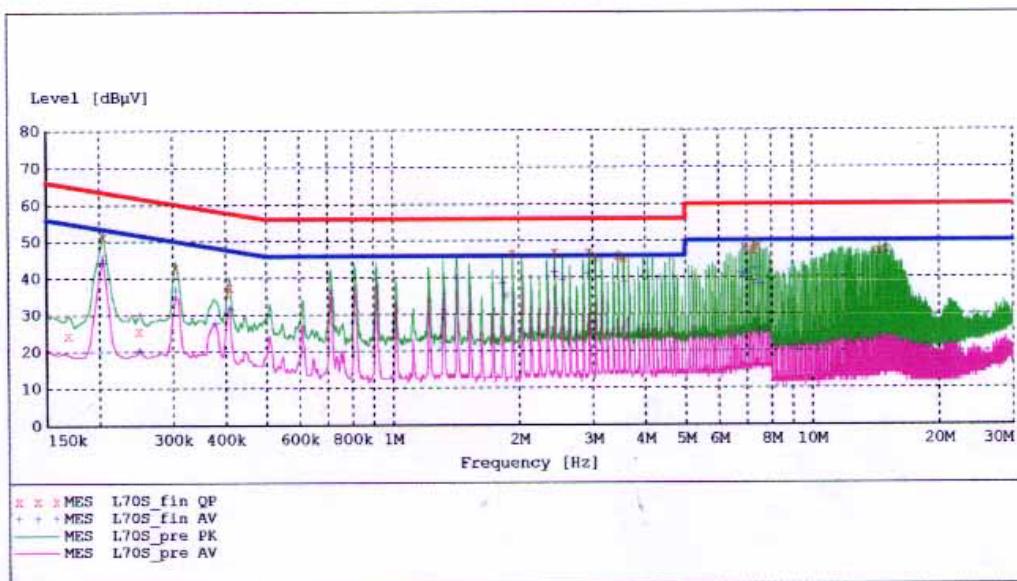
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.205000	44.10	10.1	53	9.3	1	---
0.265000	19.20	10.1	51	32.1	1	---
0.305000	38.00	10.1	50	12.1	1	---
0.380000	27.70	10.1	48	20.6	1	---
0.405000	30.70	10.1	48	17.0	1	---
0.410000	32.50	10.1	48	15.2	1	---
1.325000	39.60	10.2	46	6.4	1	---
1.840000	38.40	10.3	46	7.6	1	---
1.940000	41.40	10.3	46	4.6	1	---
2.450000	41.50	10.3	46	4.5	1	---
2.960000	41.00	10.2	46	5.0	1	---
3.470000	39.90	10.2	46	6.1	1	---
6.330000	37.60	10.3	50	12.4	1	---
6.430000	36.80	10.3	50	13.2	1	---
6.840000	39.70	10.3	50	10.3	1	---
6.945000	36.00	10.3	50	14.0	1	---
7.045000	36.70	10.3	50	13.3	1	---
7.350000	40.30	10.3	50	9.7	1	---

**HYUNDAI C-TECH.  
 EMC Testing Laboratory**

EUT: L70S  
 Manufacturer: IMAGEQUEST  
 Operating Condition: 1280 X 1024 75Hz  
 Test Site: SHIELD ROOM  
 Operator: KH-SEO  
 Test Specification: CISPER CLASS B  
 Comment: H  
 Start of Test: 2/10/03 / 1:55:58PM

**SCAN TABLE: "EN 55022 Voltage"**

EN 55022 Voltage						
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	500.0 kHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			


**MEASUREMENT RESULT: "L70S\_fin\_QP"**

2/10/03 2:00PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.170000	24.40	10.1	65	40.6	1	---
0.205000	51.30	10.1	63	12.1	1	---
0.250000	25.60	10.1	62	36.1	1	---
0.305000	42.90	10.1	60	17.2	1	---
0.405000	35.90	10.1	58	21.8	1	---
0.410000	37.40	10.1	58	20.2	1	---
1.940000	46.60	10.3	56	9.4	1	---
2.450000	46.90	10.3	56	9.1	1	---
2.960000	46.80	10.2	56	9.2	1	---
3.060000	45.50	10.2	56	10.5	1	---
3.470000	46.10	10.2	56	9.9	1	---
3.575000	45.30	10.2	56	10.7	1	---
6.940000	48.20	10.3	60	11.8	1	---
7.250000	47.40	10.3	60	12.6	1	---

**MEASUREMENT RESULT: "L70S\_fin QP"**

(continued)

Frequency MHz	Level dB <sub>μ</sub> V	Transd dB	Limit dB <sub>μ</sub> V	Margin dB	Line	PE
7.350000	49.60	10.3	60	10.4	1	---
7.450000	48.50	10.3	60	11.5	1	---
14.495000	47.30	10.5	60	12.7	1	---
15.005000	47.80	10.5	60	12.2	1	---

**MEASUREMENT RESULT: "L70S\_fin AV"**

2/10/03 2:00PM

Frequency MHz	Level dB <sub>μ</sub> V	Transd dB	Limit dB <sub>μ</sub> V	Margin dB	Line	PE
0.205000	44.30	10.1	53	9.2	1	---
0.250000	20.30	10.1	52	31.5	1	---
0.305000	36.80	10.1	50	13.3	1	---
0.380000	27.80	10.1	48	20.5	1	---
0.405000	30.00	10.1	48	17.7	1	---
0.410000	31.70	10.1	48	16.0	1	---
1.430000	40.10	10.2	46	5.9	1	---
1.835000	38.70	10.3	46	7.3	1	---
2.450000	41.50	10.3	46	4.5	1	---
2.550000	39.40	10.3	46	6.6	1	---
2.960000	41.20	10.2	46	4.8	1	---
3.575000	39.00	10.2	46	7.0	1	---
6.840000	41.30	10.3	50	8.7	1	---
6.940000	40.80	10.3	50	9.2	1	---
7.250000	39.20	10.3	50	10.8	1	---
7.350000	42.40	10.3	50	7.6	1	---
7.455000	38.30	10.3	50	11.7	1	---
7.555000	38.30	10.3	50	11.7	1	---

**NOTES:**

1. All modes of operation were investigated and the worst-case emissions are reported.
2. The CISPR RFI conducted limits are listed on Table 1 (Page 6).
3. Line A = Phase Line B = Neutral

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\*\* Measurements using CISPR quasi-peak mode.

## 7.1 RADIATED TEST DATA

Frequency	Reading	Ant. Factor	Cable Loss	ANT POL	Total	Limit	Margin
MHz	dBuV	dB	dB	(H/V)	dBuV/m	dBuV/m	dB
72.0	18.86	6.30	1.8	V	27.0	30	-3.0
89.2	15.41	8.70	2.1	V	26.2	30	-3.8
115.4	10.67	12.26	2.4	V	25.3	30	-4.7
144.0	6.79	14.67	2.6	V	24.1	30	-5.9
165.6	7.91	15.56	2.9	V	26.4	30	-3.6
216.0	5.64	16.73	3.3	V	25.7	30	-4.3
312.0	12.43	16.30	4.1	H	32.8	37	-4.2
364.4	12.13	16.58	4.4	V	33.1	37	-3.9
480.0	8.87	18.83	5.0	V	32.7	37	-4.3
530.6	7.87	19.78	5.3	V	32.9	37	-4.1
644.2	4.94	22.54	5.8	V	33.3	37	-3.7
720.1	4.83	22.61	6.2	V	33.6	37	-3.4

Radiated Measurements at 10-meters.  
**1280 X 1024 (@80.0KHz/ 75Hz)**

### NOTES:

1. All modes of operation were investigated, and the worst-case emissions are reported.
2. The radiated limits are listed on Table 2 (Page 7).

\*\* AFCL = Antenna Factor (Roberts dipole) and Cable Loss .

\*\*\* Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

## 8.1 Sample Calculations

$$\text{dB } \square = 20 \log_{10} (\text{mV/m})$$

$$\text{dB } \square = \text{dBm} + 107$$

### 8.2 Example 1:

**@ 20.3 MHz**

$$\begin{aligned}
 \text{Class B limit} &= 250 \mu\text{V} = 47.96 \text{ dB}\mu\text{V} \\
 \text{Reading} &= -67.8 \text{ dBm (calibrated level)} \\
 \text{Convert to dB}\mu\text{V} &= -67.8 + 107 = 39.2 \text{ dB}\mu\text{V} \\
 10^{(39.2/20)} &= 91.2 \mu\text{V} \\
 \\
 \text{Margin} &= 39.2 - 47.96 = -8.76 \\
 &= \mathbf{8.8 \text{ dB below limit}}
 \end{aligned}$$

### 8.3 Example 2:

**@ 66.7 MHz**

$$\begin{aligned}
 \text{Class B limit} &= 100 \mu\text{V/m} = 47.96 \text{ dB}\mu\text{V/m} \\
 \text{Reading} &= -76.0 \text{ dBm (calibrated level)} \\
 \text{Convert to dB}\mu\text{V/m} &= -76.0 + 107 = 31.0 \text{ dB}\mu\text{V/m} \\
 \text{Antenna Factor + Cable Loss} &= 5.8 \text{ dB} \\
 \text{Total} &= 36.8 \text{ dB}\mu\text{V/m} \\
 \\
 \text{Margin} &= 36.8 - 40.0 = -3.2 \\
 &= \mathbf{3.2 \text{ dB below limit}}
 \end{aligned}$$

## 9.1 Test Equipment

<u>Type</u>	<u>Manufacture</u>	<u>Model Number</u>	<u>CAL Date</u>
EMI Test Receiver	Rohde & Schwarz	ESH3	2002.07.16
EMI Test Receiver	Rohde & Schwarz	ESVP	2002.10.01
EMI Test Receiver	Rohde & Schwarz	ESI40	2002.11.16
EMI Test Receiver	Rohde & Schwarz	ESVS30	2002.07.16
LISN	EMCO	3816/2	2002.11.29
LISN	EMCO	3816/2	2002.08.22
Amplifier	Hewlett-Packard	8447E	2002.08.23
Absorbing Clamp	Rohde & Schwarz	MDS-21	2002.04.24
Dipole Antennas	Rohde & Schwarz	VHAP	2002.07.16
Dipole Antennas	Rohde & Schwarz	UHAP	2002.07.16
Biconical Antenna	Rohde & Schwarz	VHA9103	2002.07.12
Log-Periodic Antenna	Rohde & Schwarz	UHALP9107	2002.07.12
Antenna Position Tower	EMCO	1051-12	N/A
Turn Table	EMCO	1060-06	N/A
Power Analyzer	Voltech	PM 3300	2003.2.15
Reference Network	Impedance Voltech	IEC 555	N/A
AC Power Source	PACIFIC	Magnetic Module	N/A
AC Power Source	PACIFIC	360AMX	2002.11.25
Controller	HD GmbH	HD 100	N/A
EMI in Motion	HD GmbH	KMS 560	N/A

## 10.1 Test Software Used

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained on a 3-1/2 inch disc, was inserted into drive A and is auto starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is :(1) Display test, (2) RS 232 test (3) Key board test,(4) Printer test,(5) FDD test,(6) HDD test. The complete cycle takes about 20 seconds and is repeated continuously. As the keyboard and mouse are strictly input devices, no data is transmitted to them during test. They are however, continuously scanned for data input activity. The video resolution modes setup and change program was used during the radiated and conducted emission testing.

NOTE: This is a sample of the basic program used during the test. However, during testing, a different software program may be used; whichever determines the worst-case condition. In addition, the program used also depends on the number and type of devices being tested.

Actual program used is the "H" pattern in Notepad under Windows environment. All resolution modes (1280x1024, 1024x768, 800x600, 640x480, 720x400) were investigated and tested

## 11.1 Conclusion

The data collected shows that the IMAGEQUEST CO., LTD. 17-inch LCD Monitor **FCC ID: PJIL17A0D080**. complies with §15.107 and §15.109 of the FCC Rules.