Test Report

For

Applicant	**:**	**MICROTEK INTERNATIONAL INC.**
Equipment Type	**:**	**Image Scanner**
Model	**:**	**MRS-2400G12U**
FCC ID	**:**	**EF9MRS-2400G12U**

Report No. : 99CH018FI

Test Report Certification

QuieTek Corporation

No.75-1, Wang-Yeh Valley, Yung-Hsing, Chiung-Lin,
Hsin-Chu County, Taiwan, R.O.C.
Tel : 886-3-592-8858, Fax: 886-3-592-8859
E-Mail : quietek@ms24.hinet.net

Accredited by NIST(NVLAP), VCCI, BSMI, DNV, TUV

Applicant	: MICROTEK INTERNATIONAL INC.
Address	: No.6, Industry East Rd.3, Science-Based Industrial Park, Hsin-Chu , Taiwan, R.O.C.
Equipment Type	: Image Scanner
Model	: MRS-2400G12U
Measurement Standard	: CISPR 22/1994
Measurement Procedure	: ANSI C63.4 /1992
FCC ID	: EF9MRS-2400G12U
Operation Voltage	: 120Vac/60Hz
Classification	: Class B
Test Result	: Complied
Test Date	: Jan.06, 2000
Report No.	: 99CH018FI

The Test Results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented by: Lisa Chen	Test Engineer: Chun Huang	Approved: Gene Chang

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Description Page

1. General Information

1.1 EUT Description

Applicant	:	MICROTEK INTERNATIONAL INC.
Address	:	No.6, Industry East Rd.3, Science-Based Industrial Park, Hsin-Chu , Taiwan, R.O.C.
Equipment Type	:	Image Scanner
Model	:	MRS-2400G12U
Operation Voltage	:	120Vac/60Hz
Photo Mask	:	LightLid 35, MICROTEK, Non-shielded,0.5m, S/N:S91C132894 MTMA, MICROTEK, Non-shielded,1.0m, Bonded a ferrite cord
USB Cable	:	shielded, 1.4m, Bonded a ferrite cord
Power Adapter	:	L.S.E, LSE9801B15-2 Cable out:No-shielded, 1.6m, Bonded a ferrite cord S/N:22093 Kentex, KB18-150 Cable out:No-shielded, 1.7m, Bonded a ferrite cord Bestec, BPA-201S-15 Cable out:No-shielded, 1.6m, Bonded a ferrite cord S/N:90300022

Remark:

1.The EUT is a 1200×2400dpi Image Scanner and three kinds of adapter are used.

2. QuieTek had verified all the construction and function in typical operation, then shown in this test report.

1.2 Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

1.2.1 Image Scanner(EUT)

Model Number	: MRS-2400G12U
Serial Number	: N/A
FCC ID	: DoC
Manufacturer	: MICROTEK
USB Cable	: Shielded, 1.4m, Bonded a ferrite cord

1.2.2 Host Personal Computer

Model Number	: P2L97
Serial Number	: 9837
FCC ID	: DoC
Manufacturer	: ASUS
Power Cord	: Non-Shielded, 1.8m

1.2.3 Monitor

Model Number	: CM752ET-311
Serial Number	: T8F005799
FCC ID	: DoC
Manufacturer	: HITACHI
Data Cable	: Shielded, 1.5m
Power Cord	: Shielded, 1.8m

1.2.4 Keyboard

Model Number	: 6311-TW4C
Serial Number	: 916590704C91F24345
FCC ID	: DoC
Manufacturer	: ACER
Data Cable	: Shielded, 1.8m

1.2.5 Modem

Model Number	: 1414
Serial Number	: 980033035
FCC ID	: IFAXDM1414
Manufacturer	: ACEEX
Data Cable	: Shielded, 1.5m
Power Adapter	: ACCEX, SCP41-91000A Cable Output : Shielded, 1.5m

1.2.6 Modem

Model Number	: 1414
Serial Number	: 980033037
FCC ID	: IFAXDM1414
Manufacturer	: ACEEX
Data Cable	: Shielded, 1.5m
Power Adapter	: ACCEX, SCP41-91000A Cable Output : Shielded, 1.5m

1.2.7 Printer

Model Number	: C2642A
Serial Number	: MY75L1D2XN
FCC ID	: B94C2642X
Manufacturer	: HP
Data Cable	: Shielded, 1.2m
Power Adapter	: NMB, C2175A Cable for AC IN: Non-Shielded, 0.7m Cable for AC Out: Non-Shielded, 1.5m

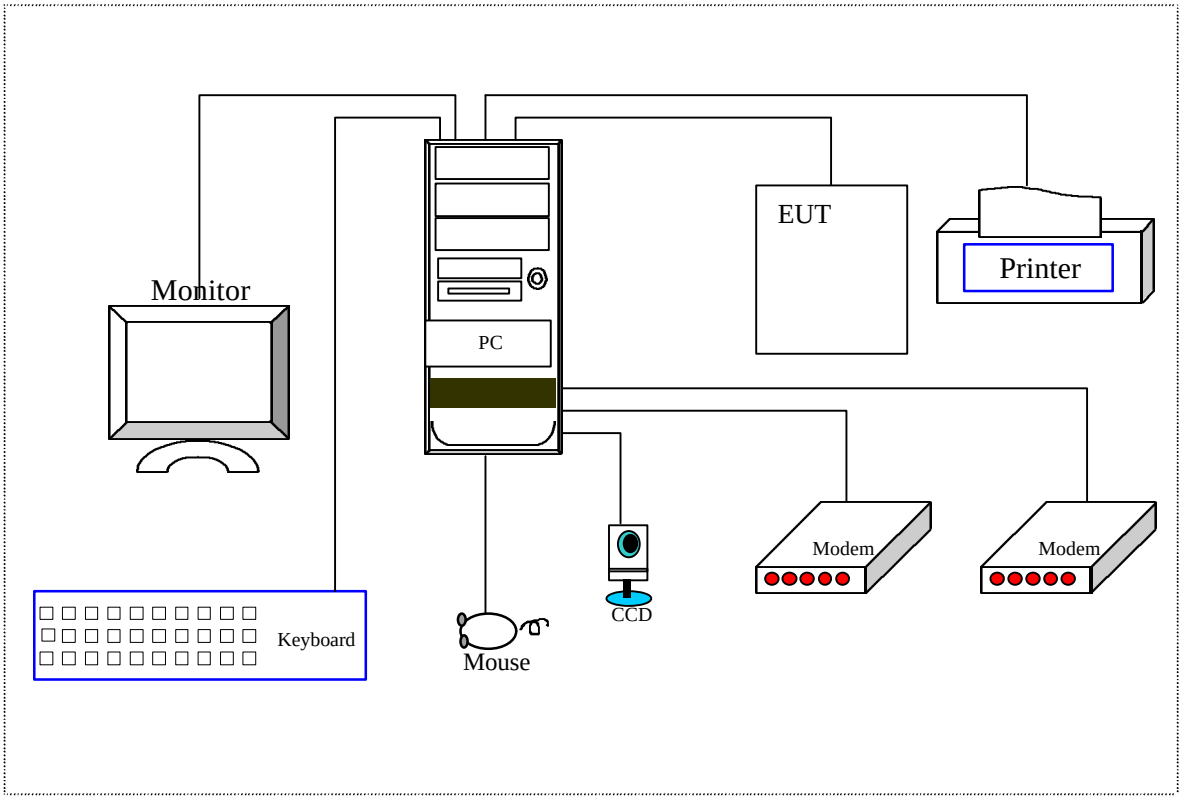
1.2.8 Mouse

Model Number	: M-UB48
Serial Number	: LTC74800118
FCC ID	: DZL211137
Manufacturer	: Logitech
Data Cable	: Shielded, 1.8m

1.2.9 Video Camera

Model Number	: Vcam 3X
Serial Number	: N/A
FCC ID	: DoC
Manufacturer	: Mustek
Data Cable (USB)	: Shielded, 1.5m

1.3 EUT Configuration



1.4 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

1.4.1 Setup the EUT and simulators as shown on 1.3

1.4.2 Turn on the power of all equipment.

1.4.3 Boot the PC from Hard Disk .

1.4.4 PC reads test software from the control BIOS of scanner and then sent to scanner.

1.4.5 The Scanner (EUT) will start to operate and scan the video figure into PC.

1.4.6 PC will display “video figure” on monitor.

1.4.7 Printer and modem will keep at standby mode during Scanner operation.

1.4.8 Repeat the above procedure 1.4.4 to 1.4.7

1.5 Test performed

Conducted emissions were invested over the frequency range from **0.15MHz to 30MHz** using a receiver bandwidth of 9kHz.

Radiated emissions were invested over the frequency range from **30MHz to 1000MHz** using a receiver bandwidth of 120kHz. Radiated testing was performed at an antenna to EUT distance of 10 meters .

1.6 Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: November 3, 1998 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2

September 30, 1998 Accreditation on NVLAP
NVLAP Lab Code: 200347-0

February 23, 1999 Accreditation on DNV
Statement No. : 413-99-LAB11

December 8, 1998 Registration on VCCI
Registration No. for No.2 Shielded Room C-858
Registration No. for No.1 Open Area Test Site R-823
Registration No. for No.2 Open Area Test Site R-835

January 04, 1999 Accreditation on TUV Rheinland
Certificate No.: I9865712-9901

Name of firm : QuieTek Corporation

Site location : No.75-1, Wang-Yeh Valley, Yung-Hsing Tsuen,
Chiung-Lin, Hsin-Chu County, Taiwan, R.O.C.

2. Conducted Emission

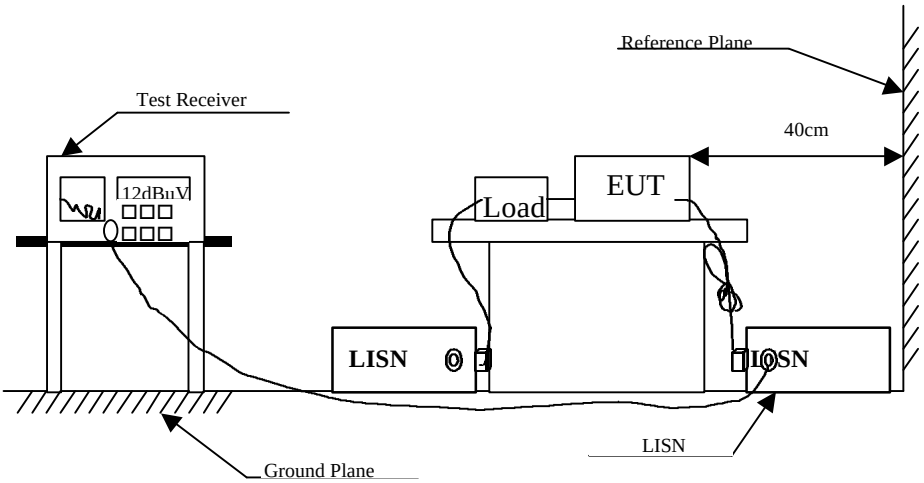
2.1 Test Equipment List

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal..	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 1999	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 1999	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 1999	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	N/A	
5	N0.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2 Test Setup



2.3 Limits

CISPR 22 Limits (dBuV)					FCC Part 15 Subpart B (dBuV)				
Frequency MHz	Class A		Class B		Frequency MHz	Class A		Class B	
	QP	AV	MHz	AV		uV	dBuV	uV	dBuV
0.15 - 0.50	79	66	66-56	56-46	0.45-1.705	1000	60.0	250	48.0
0.50-5.0	73	60	56	46	1.705-30	3000	69.5	250	48.0
5.0 - 30	73	60	60	50					

Remarks : In the above table, the tighter limit applies at the band edges.

2.4 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 /1992 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

2.5 Test Results

The conducted emission from the EUT is measured and shown in attachment 1 of test report. The acceptance criterion was met and the EUT passed the test.

3. Radiated Emission

3.1 Test Equipment

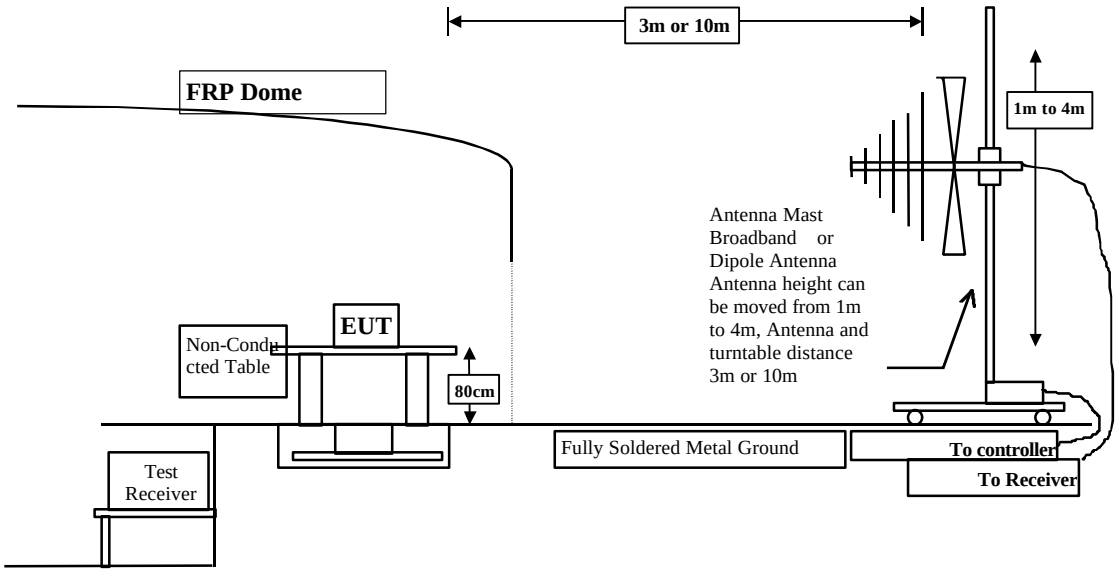
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	X	Test Receiver	R & S	ESCS 30 / 825442/14	May, 1999
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 1999
		Pre-Amplifier	HP	8447D/3307A01812	May, 1999
	X	Bilog Antenna	Chase	CBL6112B / 12452	Sep.., 1999
	X	Horn Antenna	EM	EM6917 / 103325	May, 1999
Site # 2	X	Test Receiver	R & S	ESCS 30 / 825442/17	May, 1999
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 1999
		Pre-Amplifier	HP	8447D/3307A01814	May, 1999
	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep.., 1999
	X	Horn Antenna	EM	EM6917 / 103325	May, 1999

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.

2.. Mark "X" test instruments are used to measure the final test results.

3.2 Test Setup



3.3 Limits

CISPR 22 Limits					FCC Part 15 Subpart B				
Frequency	Class A		Class B		Frequency	Class A		Class B	
MHz	Distance (m)	dBuV/m	Distance (m)	dBuV/m		uV/m	dBuV/m	uV/m	dbuV/m
30 – 230	10	40	10	30	30 – 88	90	39	100	40.0
230 – 1000	10	47	10	37	88 – 216	150	43.5	150	43.5
					216 –960	210	46.5	200	46.0
					above 960	300	49.5	500	54.0

Remark: 1. The tighter limit shall apply at the edge between two frequency bands.

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Line Voltage (dBuV/m) = 20 log RF Line Voltage (uV/m)

3.4 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 10 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4 /1992 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz.

3.5 Test Results

The radiated emission from the EUT is measured and shown in attachment 1 of test report. The acceptance criterion was met and the EUT passed the test.

4. EMI Reduction Method During Compliance Testing

No modification was made during testing.

5. Attachment

Attachment 1: Summary of Test Results	Number of Pages: 13
Attachment 2: EUT Test Photographs	Number of Pages: 6
Attachment 3: EUT detailed photographs	Number of Pages: 31

Attachment 1 : Summary of Test Results

The test results in the emission was performed according to the requirements of measurement standard and process. QuieTek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. The test data of the emission is listed as the attached data.

All the tests were carried out with the EUT in normal operation, which was defined as:

Mode 1 : Li Shin

Mode 2 : Kentex

Mode 3 : Bestec

The EUT passed all the tests.

The uncertainty is calculated in accordance with NAMAS NIS 81, The total uncertainty for this test is as follows:

Emission Test

- Uncertainty in the Conducted Emission Test: < ± 2.0 dB
- Uncertainty in the field strength measured: < ± 4.0 dB

CONDUCTED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable Loss	LISN Factor	Reading Level Line1	Measurement Level Line1	Limits
MHz	dB	dB	dBuV	dBuV	dBuV
0.202	0.02	0.10	46.81	46.93	63.53
*0.410	0.05	0.10	47.91	48.06	57.65
0.514	0.06	0.10	46.10	46.26	56.00
0.719	0.08	0.10	46.16	46.34	56.00
0.832	0.09	0.10	45.66	45.85	56.00
1.033	0.10	0.10	45.22	45.42	56.00

Average:

0.202	0.02	0.10	45.40	45.52	53.53
0.410	0.05	0.10	43.50	43.65	47.65
0.514	0.06	0.10	40.70	40.86	46.00
0.719	0.08	0.10	38.70	38.88	46.00
0.832	0.09	0.10	37.50	37.69	46.00
1.033	0.10	0.10	35.20	35.40	46.00

Remarks :

1. " * " means that this data is the worst emission level.

CONDUCTED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable Loss	LISN Factor	Reading Level Line2	Measurement Level Line2	Limits
MHz	dB	dB	dBuV	dBuV	dBuV
0.208	0.02	0.10	50.64	50.76	63.28
*0.419	0.05	0.10	47.84	47.99	57.47
0.526	0.07	0.10	46.20	46.37	56.00
0.738	0.08	0.10	44.81	44.99	56.00
0.846	0.09	0.10	45.61	45.80	56.00
1.058	0.10	0.10	44.14	44.35	56.00

Average:

0.208	0.02	0.10	49.60	49.72	53.28
0.419	0.05	0.10	43.70	43.85	47.47
0.526	0.07	0.10	40.50	40.67	46.00
0.738	0.08	0.10	37.00	37.18	46.00
0.846	0.09	0.10	36.90	37.09	46.00
1.058	0.10	0.10	34.30	34.51	46.00

Remarks :

1. " * " means that this data is the worst emission level.

CONDUCTED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable Loss	LISN Factor	Reading Level Line1	Measurement Level Line1	Limits
MHz	dB	dB	dBuV	dBuV	dBuV
0.212	0.02	0.10	46.72	46.84	63.11
0.316	0.04	0.10	47.72	47.86	59.81
*0.416	0.05	0.10	51.52	51.67	57.52
0.543	0.07	0.10	45.98	46.15	56.00
0.629	0.08	0.10	50.25	50.43	56.00
1.267	0.11	0.11	49.33	49.56	56.00
Average:					
0.212	0.02	0.10	44.30	44.42	53.13
0.316	0.04	0.10	41.80	41.94	49.81
0.416	0.05	0.10	42.80	42.95	47.53
0.543	0.07	0.10	34.90	35.07	46.00
0.629	0.08	0.10	39.40	39.58	46.00
1.267	0.11	0.11	35.50	35.73	46.00

Remarks :

1. " * " means that this data is the worst emission level.

CONDUCTED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable Loss	LISN Factor	Reading Level Line2	Measurement Level Line2	Limits
MHz	dB	dB	dBuV	dBuV	dBuV
0.217	0.02	0.10	51.06	51.18	62.95
*0.427	0.06	0.10	50.99	51.15	57.31
0.742	0.08	0.10	48.08	48.26	56.00
0.956	0.10	0.10	47.12	47.32	56.00
1.067	0.10	0.10	47.63	47.84	56.00
1.604	0.13	0.12	48.34	48.59	56.00
Average:					
0.216	0.02	0.10	48.80	48.92	52.97
0.427	0.06	0.10	43.90	44.06	47.31
0.743	0.08	0.10	37.10	37.28	46.00
0.956	0.10	0.10	34.50	34.70	46.00
1.067	0.10	0.10	35.20	35.41	46.00
1.604	0.13	0.12	33.70	33.95	46.00

Remarks :

1. " * " means that this data is the worst emission level.

CONDUCTED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 3 Detect Mode : Quasi-Peak & Average

Frequency	Cable Loss	LISN Factor	Reading Level Line1	Measurement Level Line1	Limits
MHz	dB	dB	dBuV	dBuV	dBuV
*0.193	0.01	0.10	53.80	53.91	63.91
0.258	0.03	0.10	44.74	44.87	61.51
0.320	0.04	0.10	43.23	43.37	59.70
0.555	0.07	0.10	34.84	35.01	56.00
1.230	0.11	0.11	31.78	32.00	56.00
4.449	0.19	0.16	24.30	24.66	56.00
Average:					
0.193	0.01	0.10	42.10	42.21	53.91
0.258	0.03	0.10	32.90	33.03	51.50
0.320	0.04	0.10	30.80	30.94	49.71
0.555	0.07	0.10	21.90	22.07	46.00
1.230	0.11	0.11	16.80	17.02	46.00
4.449	0.19	0.16	13.70	14.06	46.00

Remarks :

1. " * " means that this data is the worst emission level.

CONDUCTED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 3 Detect Mode : Quasi-Peak & Average

Frequency	Cable Loss	LISN Factor	Reading Level Line2	Measurement Level Line2	Limits
MHz	dB	dB	dBuV	dBuV	dBuV
0.237	0.02	0.10	46.52	46.64	62.18
0.474	0.06	0.10	37.38	37.54	56.45
0.711	0.08	0.10	40.05	40.23	56.00
*0.945	0.10	0.10	40.62	40.82	56.00
1.292	0.12	0.11	36.71	36.94	56.00
2.601	0.16	0.14	26.27	26.57	56.00

Average:

0.238	0.02	0.10	35.70	35.82	52.17
0.474	0.06	0.10	32.20	32.36	46.44
0.711	0.08	0.10	33.80	33.98	46.00
0.945	0.10	0.10	32.90	33.10	46.00
1.292	0.12	0.11	24.80	25.03	46.00
2.601	0.16	0.14	17.90	18.20	46.00

Remarks :

1. " * " means that this data is the worst emission level.

RADIATED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 1 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Horizontal	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
31.997	1.17	15.89	0.00	2.98	20.04	9.96	30.00	394	130
39.040	1.23	13.64	0.00	8.07	22.94	7.06	30.00	394	130
48.000	1.33	8.92	0.00	7.51	17.76	12.24	30.00	394	35
64.000	1.48	5.73	0.00	17.69	24.89	5.11	30.00	394	50
66.948	1.50	6.16	0.00	12.84	20.51	9.49	30.00	394	134
74.025	1.58	7.10	0.00	8.35	17.03	12.97	30.00	394	108
*110.980	1.93	11.97	0.00	12.01	25.91	4.09	30.00	394	197

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

RADIATED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 1 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Vertical	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
36.210	1.21	14.68	0.00	9.56	25.44	4.56	30.00	100	202
48.000	1.33	8.03	0.00	18.14	27.50	2.50	30.00	100	136
*64.000	1.48	6.58	0.00	19.52	27.58	2.42	30.00	100	128
66.948	1.50	5.46	0.00	17.58	24.54	5.46	30.00	100	203
74.005	1.57	6.63	0.00	15.14	23.34	6.66	30.00	100	15
111.995	1.94	11.62	0.00	11.84	25.40	4.60	30.00	100	197
240.000	3.17	11.22	0.00	7.44	21.83	15.17	37.00	100	135

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

RADIATED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 2 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Horizontal	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
*30.730	1.16	16.49	0.00	4.17	21.82	8.18	30.00	394	17
57.748	1.42	5.52	0.00	3.30	10.24	19.76	30.00	394	17
139.438	2.21	11.28	0.00	0.54	14.03	15.97	30.00	394	17
151.440	2.32	10.90	0.00	0.61	13.83	16.17	30.00	394	17
193.250	2.72	9.10	0.00	8.83	20.65	9.35	30.00	394	17
211.258	2.90	9.29	0.00	7.71	19.90	10.10	30.00	394	17
216.360	2.94	9.11	0.00	5.95	18.00	12.00	30.00	394	17
360.300	4.07	14.70	0.00	3.27	22.04	14.96	37.00	394	17

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

RADIATED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 2 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Vertical	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
*31.330	1.16	17.79	0.00	8.38	27.33	2.67	30.00	100	17
40.513	1.25	12.98	0.00	5.95	20.18	9.82	30.00	100	17
48.005	1.33	8.03	0.00	6.96	16.32	13.68	30.00	100	17
59.917	1.44	6.00	0.00	3.80	11.24	18.76	30.00	100	17
72.015	1.55	6.10	0.00	10.01	17.66	12.34	30.00	100	17
139.438	2.21	11.15	0.00	4.11	17.46	12.54	30.00	99	17
144.240	2.25	10.96	0.00	4.70	17.91	12.09	30.00	99	17
200.980	2.79	9.20	0.00	1.05	13.04	16.96	30.00	99	17

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

RADIATED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 3 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Horizontal	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
36.000	1.21	14.59	0.00	8.89	24.69	5.31	30.00	394	133
*39.005	1.23	13.64	0.00	12.76	27.63	2.37	30.00	394	133
48.000	1.33	8.92	0.00	10.52	20.77	9.23	30.00	394	133
60.019	1.44	5.49	0.00	15.17	22.10	7.90	30.00	394	133
66.948	1.50	6.16	0.00	16.65	24.32	5.68	30.00	394	133
72.000	1.55	6.94	0.00	11.36	19.86	10.14	30.00	394	133
74.000	1.57	7.10	0.00	13.30	21.97	8.03	30.00	394	133

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

RADIATED EMISSION DATA

Date of Test : Jan.06, 2000 EUT : Image Scanner

Test Mode : Mode 3 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Vertical	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
*36.000	1.21	14.68	0.00	11.93	27.81	2.19	30.00	100	134
48.000	1.33	8.03	0.00	11.59	20.95	9.05	30.00	100	134
60.018	1.44	6.00	0.00	13.92	21.36	8.64	30.00	100	134
66.948	1.50	5.46	0.00	17.86	24.82	5.18	30.00	100	132
72.018	1.55	6.10	0.00	12.34	19.99	10.01	30.00	100	134
74.005	1.57	6.63	0.00	14.19	22.39	7.61	30.00	100	132

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss