



Test Report

For

Applicant : **AboCom Systems, Inc.**
Equipment Type : **USB 1M HOMEPNA & 10/100M
FAST ETHERNET ADAPTOR**
Model : **UHF1000**
FCC ID : **MQ4UHF1K**

Report No. : 99BH007FI



Test Report Certification

QuieTek Corporation

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

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

Applicant : AboCom Systems, Inc.
Address : 1F, No.21, R&D Road II, Science-Based Industrial Park,
Hsin-Chu , Taiwan, R.O.C.
Equipment Type : USB 1M HOMEPNA & 10/100M FAST ETHERNET ADAPTOR
Model : UHF1000
FCC ID. : MQ4UHF1K
Measurement Standard : CISPR 22/1994
Measurement Procedure : ANSI C63.4 /1992
Operation Voltage : DC 3.3V
Classification : Class B
Test Result : Complied
Test Date : November 3, 1999
Report No. : 99BH007FI



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: Erin Lan	Test Engineer: Warren Lin	Approved: Gene Chang
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1. General Information

1.1 EUT Description

Applicant	: AboCom Systems, Inc.
Address	: 1F, No.21, R&D Road II, Science-Based Industrial Park, Hsin-Chu , Taiwan, R.O.C.
Equipment Type	: USB 1M HOME PNA & 10/100M FAST ETHERNET ADAPTOR
Model	: UHF1000
FCC ID	: MQ4UHF1K
Operation Voltage	: DC 3.3V
Data Cable (USB)	: Shielded, 1.6m

Remark :

1. The EUT is a USB 1M HOME PNA & 10/100M FAST ETHERNET ADAPTOR .The transmission speed of EUT could be 100Mbps,10Mbps and 1Mbps.
All the transmission speed was tested respectively.
2. QuieTek had verified both 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 Host Personal Computer (A)

Model Number : P2L97
Serial Number : AS10228
FCC ID : DoC
Manufacturer : ASUS
Power Cord : Non-shielded, 1.8m

1.2.2 Monitor

Model Number : CM752ET-311
Serial Number : T8E004439
FCC ID : DoC
Manufacturer : HITACHI
Data Cable : Shielded, 1.5m
Power Cord : Shielded, 1.7m

1.2.3 Keyboard

Model Number : 6311-TW2C
Serial Number : N/A
FCC ID : DoC
Manufacturer : ACER
Data Cable : Shielded, 1.8m

1.2.4 Modem

Model Number : 1414
Serial Number : 980033039
FCC ID : IFAXDM1414
Manufacturer : ACEEX
Data Cable : Shielded, 1.5m
Power Adapter : ACCEX, M/N: SCP41-91000A
Cable Output : Shielded, 1.5m



1.2.5 Modem

Model Number : 1414
Serial Number : 980033033
FCC ID : IFAXDM1414
Manufacturer : ACEEX
Data Cable : Shielded, 1.5m
Power Adapter : ACCEX, M/N: SCP41-91000A
Cable Output : Shielded, 1.5m

1.2.6 Printer

Model Number : C2642A
Serial Number : MY75N1D2BC
FCC ID : B94C2642X
Manufacturer : HP
Data Cable : Shielded, 1.2m
Power Adapter : NMB, M/N: C2175A
Cable IN: Non-shielded, 0.7m
Cable Out: Non-shielded, 1.5m

1.2.7 Mouse

Model Number : M-S34
Serial Number : LZB75078428
FCC ID : DZL211029
Manufacturer : HP
Data Cable : Shielded, 1.8m

1.2.8 Telephone

Model Number : ST-206
Serial Number : N/A
Manufacturer : SENAO
Data Cable : Non-shielded, 2m

1.2.9 USB 1M HOMEPNA & 10/100M FAST ETHERNET ADAPTOR (EUT)

Model Number : UHF1000
Serial Number : N/A
Manufacturer : AboCom
Data Cable(USB) : Shielded, 1.6m



1.2.10 Host Personal Computer (B)

Model Number : P2L97
Serial Number : AS10226
FCC ID : DoC
Manufacturer : ASUS
Homelink Phoneline Network Adaptor
Model Number : HP100
Serial Number : 909007501
Manufacturer : LINKSYS
Power Cord : Non-shielded, 1.8m

1.2.11 Monitor

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

1.2.12 Keyboard

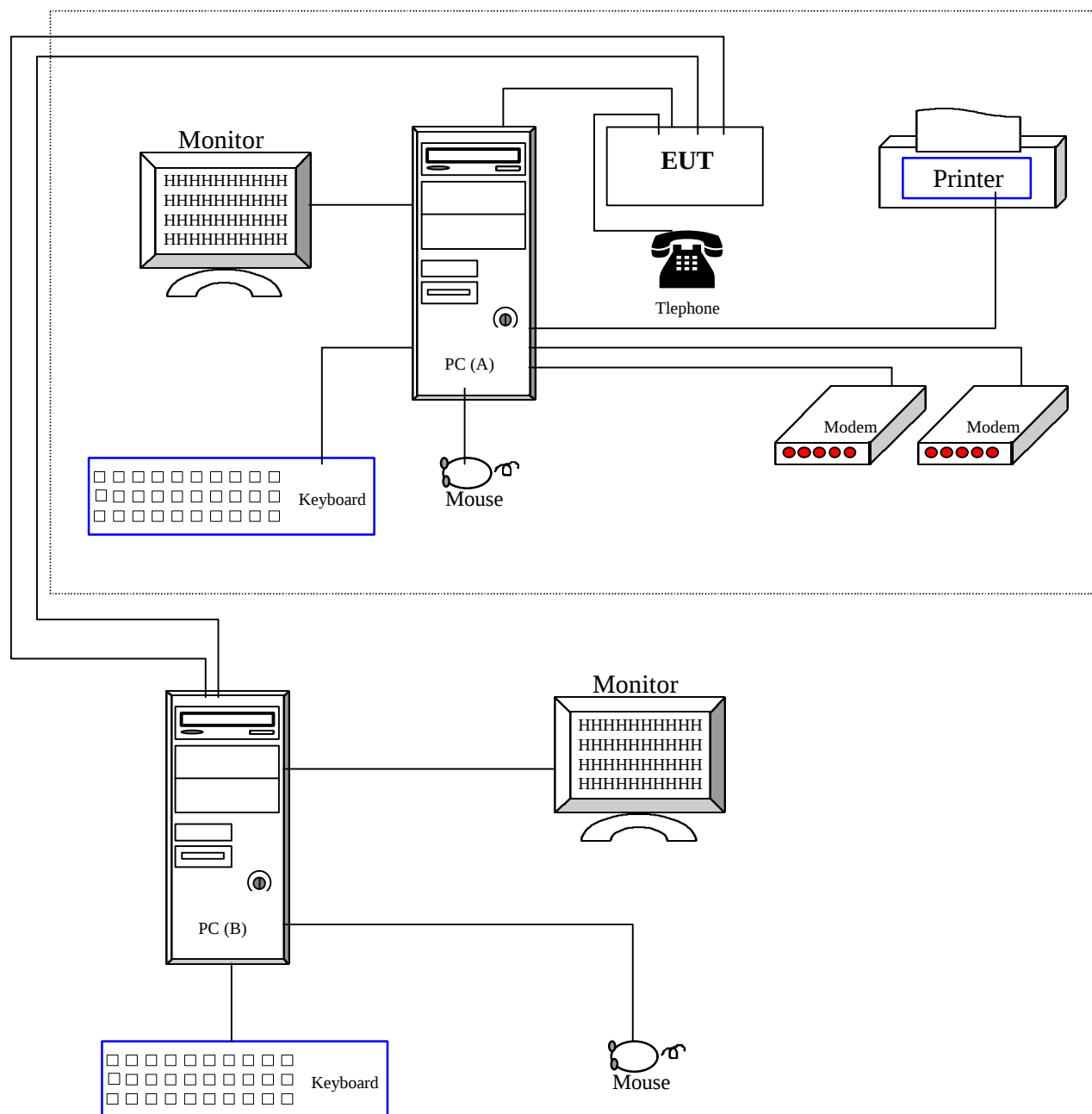
Model Number : SCORPIUS 980N plus/980
Serial Number : 808000124
FCC ID : F2Q4NE980
Manufacturer : QTRONIX
Data Cable : Shielded, 1.8m

1.2.13 Mouse

Model Number : M-S34
Serial Number : LZB75078478
FCC ID : DZL211029
Manufacturer : HP
Data Cable : Shielded, 1.8m



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 Personal Computer reads data from disk.
- 1.4.4 Data will be transmitted between host PC and partner PC through EUT.
- 1.4.5 The transmission status will be shown on the monitor.
- 1.4.6 Personal Computer will read data from floppy disk and then writes the data into floppy disk , same operation for hard disk.
- 1.4.7 Repeat the above procedure 1.4.4 to 1.4.6

1.5 Test performed

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

Radiated emissions were investigated 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 TÜV 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

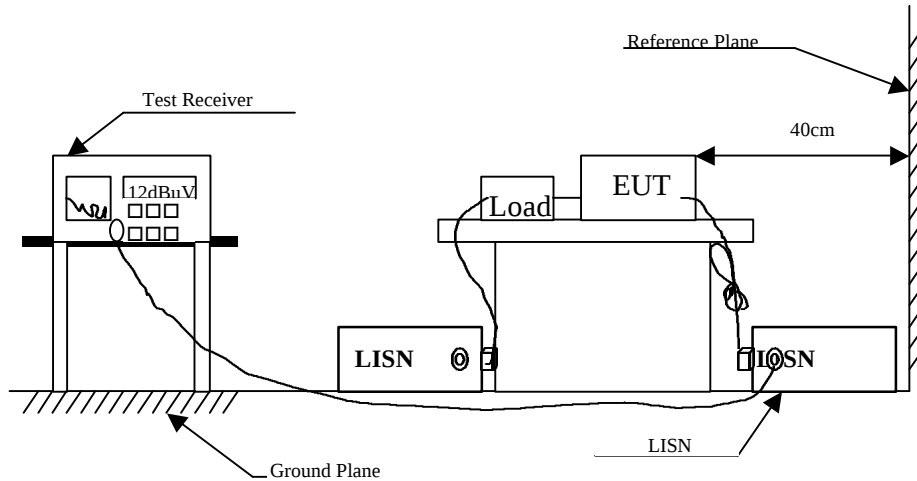
2.1 Test Equipment List

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

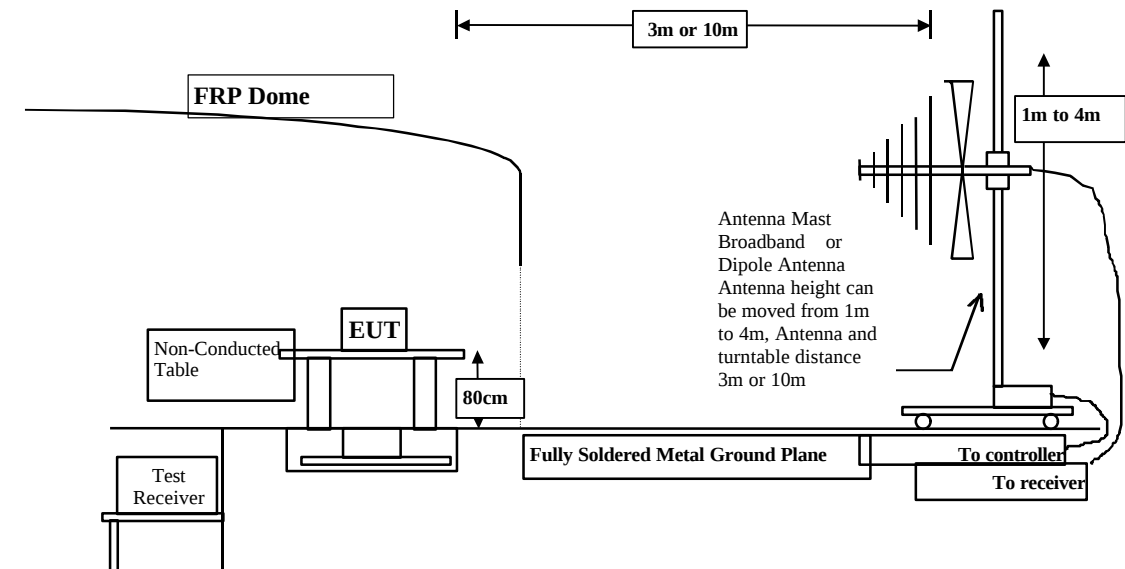
3.1 Test Equipment

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 (dBuV)					FCC Part 15 Subpart B (dBuV)				
Frequency	Class A		Class B		Frequency	Class A		Class B	
MHz	Distance (m)	dBuV/m	Distance (m)	dBuV/m		uV	dBuV	uV	dBuV
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
					960 - 2000	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) = $20 \log \text{RF Line Voltage (uV)}$

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: 4



Attachment 1 : Summary of Test Results

The test results in the emission were 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 are listed as the attached data.

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

Mode 1 : 100Mbps

Mode 2 : 10Mbps

Mode 3 : 1Mbps

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: $< \pm 2.0 \text{ dB}$
- Uncertainty in the field strength measured: $< \pm 4.0 \text{ dB}$



CONDUCTED EMISSION DATA

Date of Test : November 03, 1999 EUT : FAST ETHERNET ADAPTOR
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.185	0.01	0.10	36.79	36.90	64.25
0.266	0.03	0.10	24.43	24.56	61.23
*0.349	0.04	0.10	17.27	17.41	58.99
6.516	0.23	0.18	30.13	30.54	60.00
7.238	0.24	0.19	24.79	25.22	60.00
22.569	0.37	0.50	32.93	33.79	60.00

Average:

0.185	0.01	0.10	35.20	35.31	54.25
0.266	0.03	0.10	24.20	24.33	51.24
0.349	0.04	0.10	16.80	16.94	48.99
6.516	0.23	0.18	28.10	28.51	50.00
7.238	0.24	0.19	22.40	22.83	50.00
22.569	0.37	0.50	32.00	32.86	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : November 03, 1999 EUT : FAST ETHERNET ADAPTOR
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.199	0.01	0.10	32.67	32.78	63.65
0.296	0.04	0.10	23.99	24.13	60.36
* 0.395	0.05	0.10	25.49	25.64	57.95
5.170	0.20	0.17	26.53	26.90	60.00
6.518	0.23	0.18	30.33	30.74	60.00
22.569	0.37	0.50	32.69	33.55	60.00

Average:

0.199	0.01	0.10	32.40	32.51	53.65
0.296	0.04	0.10	23.90	24.04	50.35
0.395	0.05	0.10	25.30	25.45	47.96
5.169	0.20	0.17	24.30	24.67	50.00
6.518	0.23	0.18	27.70	28.11	50.00
22.569	0.37	0.50	31.80	32.66	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : November 03, 1999 EUT : FAST ETHERNET ADAPTOR
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.186	0.01	0.10	36.01	36.12	64.19
0.270	0.03	0.10	23.63	23.76	61.11
0.394	0.05	0.10	19.29	19.44	57.99
*3.801	0.18	0.16	23.17	23.51	56.00
5.637	0.21	0.18	26.35	26.74	60.00
22.570	0.37	0.50	32.31	33.17	60.00

Average:

0.186	0.01	0.10	34.70	34.81	54.21
0.270	0.03	0.10	23.40	23.53	51.12
0.394	0.05	0.10	17.00	17.15	47.98
3.801	0.18	0.16	22.60	22.94	46.00
5.637	0.21	0.18	23.70	24.09	50.00
22.569	0.37	0.50	31.50	32.36	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : November 03, 1999 EUT : FAST ETHERNET ADAPTOR
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.199	0.01	0.10	33.05	33.16	63.66
0.297	0.04	0.10	23.85	23.99	60.32
0.395	0.05	0.10	25.41	25.56	57.97
5.295	0.21	0.17	24.55	24.93	60.00
7.492	0.24	0.19	34.65	35.08	60.00
22.571	0.37	0.50	31.71	32.57	60.00

Average:

0.199	0.01	0.10	32.80	32.91	53.65
0.297	0.04	0.10	23.80	23.94	50.33
0.395	0.05	0.10	25.20	25.35	47.96
5.295	0.21	0.17	22.20	22.58	50.00
7.492	0.24	0.19	21.70	22.13	50.00
22.571	0.37	0.50	31.00	31.86	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : November 03, 1999 EUT : FAST ETHERNET ADAPTOR
 Test Mode : Mode 3 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.151	0.00	0.10	29.97	30.07	65.94
0.187	0.01	0.10	36.21	36.32	64.16
*2.662	0.16	0.14	19.99	20.29	56.00
5.168	0.20	0.17	25.93	26.30	60.00
7.268	0.24	0.19	25.65	26.08	60.00
22.572	0.37	0.50	30.77	31.63	60.00

Average:

0.151	0.00	0.10	27.80	27.90	55.94
0.187	0.01	0.10	34.90	35.01	54.17
2.662	0.16	0.14	16.20	16.50	46.00
5.168	0.20	0.17	23.90	24.27	50.00
7.268	0.24	0.19	24.00	24.43	50.00
22.572	0.37	0.50	30.20	31.06	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : November 03, 1999 EUT : FAST ETHERNET ADAPTOR

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

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB		dBuV	dBuV	dBuV
=====					
0.199	0.01	0.10	33.11	33.22	63.66
0.298	0.04	0.10	23.99	24.13	60.29
0.395	0.05	0.10	25.53	25.68	57.96
*0.495	0.06	0.10	21.61	21.77	56.08
8.573	0.26	0.19	29.11	29.56	60.00
22.571	0.37	0.50	31.07	31.93	60.00

Average:

0.199	0.01	0.10	32.90	33.01	53.66
0.298	0.04	0.10	23.90	24.04	50.30
0.395	0.05	0.10	25.30	25.45	47.96
0.495	0.06	0.10	21.10	21.26	46.08
8.572	0.26	0.19	16.90	17.35	50.00
22.570	0.37	0.50	30.30	31.16	50.00

Remarks :

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



RADIATED EMISSION DATA

Date of Test	:	November 03, 1999	EUT	FAST ETHERNET ADAPTOR
Test Mode	:	Mode 1	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Horizontal				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m	cm deg
=====									
50.000	1.35	7.93	0.00	12.03	21.31	8.69	30.00	400	154
75.000	1.58	7.10	0.00	18.14	26.82	3.18	30.00	401	163
125.000	2.07	11.84	0.00	11.58	25.49	4.51	30.00	401	190
150.000	2.31	10.72	0.00	9.22	22.25	7.75	30.00	401	163
175.000	2.55	9.76	0.00	13.61	25.92	4.08	30.00	401	121
*225.000	3.03	9.83	0.00	15.86	28.72	1.28	30.00	401	74

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	:	November 03, 1999	EUT	FAST ETHERNET ADAPTOR
Test Mode	:	Mode 1	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Vertical				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m	cm deg
=====									
50.000	1.35	7.39	0.00	11.21	19.95	10.05	30.00	100	132
75.000	1.58	6.83	0.00	13.42	21.83	8.17	30.00	105	185
125.000	2.07	11.49	0.00	11.58	25.14	4.86	30.00	105	193
*175.000	2.55	9.32	0.00	15.11	26.98	3.02	30.00	105	61
225.000	3.03	9.68	0.00	12.17	24.87	5.13	30.00	105	69
300.000	3.76	13.56	0.00	12.41	29.72	7.28	37.00	100	347

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	:	November 03, 1999	EUT	FAST ETHERNET ADAPTOR
Test Mode	:	Mode 2	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Horizontal				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
60.000	1.44	5.49	0.00	8.25	15.18	14.82	30.00	400	46
80.000	1.64	8.20	0.00	3.93	13.76	16.24	30.00	401	150
150.000	2.31	10.72	0.00	5.46	18.49	11.51	30.00	400	85
240.000	3.17	11.32	0.00	7.55	22.04	14.96	37.00	401	33
360.000	4.07	14.70	0.00	2.14	20.91	16.09	37.00	401	146
*480.000	4.69	17.00	0.00	8.67	30.36	6.64	37.00	401	150

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	:	November 03, 1999	EUT	FAST ETHERNET ADAPTOR
Test Mode	:	Mode 2	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Vertical				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m	cm deg
=====									
60.000	1.44	6.00	0.00	8.21	15.65	14.35	30.00	100	124
80.000	1.64	7.12	0.00	7.25	16.01	13.99	30.00	100	92
120.000	2.02	11.56	0.00	6.76	20.34	9.66	30.00	105	28
160.000	2.40	10.28	0.00	3.27	15.95	14.05	30.00	105	32
240.000	3.17	11.22	0.00	4.49	18.88	18.12	37.00	105	65
*480.000	4.69	17.20	0.00	5.71	27.60	9.40	37.00	105	187

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	:	November 03, 1999	EUT	FAST ETHERNET ADAPTOR
Test Mode	:	Mode 3	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Horizontal				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m	cm deg
=====									
120.000	2.02	12.02	0.00	0.86	14.90	15.10	30.00	401	36
140.000	2.21	11.28	0.00	2.61	16.10	13.90	30.00	401	161
160.000	2.40	10.32	0.00	2.62	15.34	14.66	30.00	401	114
180.000	2.60	9.47	0.00	6.10	18.16	11.84	30.00	401	43
200.000	2.78	9.30	0.00	7.40	19.48	10.52	30.00	401	113
240.000	3.17	11.32	0.00	4.90	19.39	17.61	37.00	401	203
*360.000	4.07	14.70	0.00	11.73	30.50	6.50	37.00	300	6

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	:	November 03, 1999	EUT	FAST ETHERNET ADAPTOR
Test Mode	:	Mode 3	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss	Factor		Level	Vertical				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
40.000	1.24	12.84	0.00	0.27	14.35	15.65	30.00	105	190
60.000	1.44	6.00	0.00	8.10	15.54	14.46	30.00	104	104
80.000	1.64	7.12	0.00	7.93	16.69	13.31	30.00	104	121
120.000	2.02	11.56	0.00	5.57	19.15	10.85	30.00	105	137
240.000	3.17	11.22	0.00	10.04	24.43	12.57	37.00	104	77
*360.000	4.07	15.48	0.00	9.90	29.44	7.56	37.00	401	203

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

