EXHIBIT B

Test Report

Report No.

W0115276

Specifications

Test Method

FCC Part 15 Class B ANSI C63.4 1992

Applicant address

4F, NO.539-2 CHUNG CHENG RD., HSIN TIEN, TAIPEI, TAIWAN, R.O.C.

Applicant
Items tested

Model No.

WELL Communication Co.,

Internal 56K Fax/Data/Voice modem card

FM-56PC-L (Sample # W01276)

Results

Sample received

data

As detailed within this report

04/20/1998 (month / day / year)

Prepared by

Authorized by

Issue date

project engineer

Vice General Manager

1/13

(Jacob Lin) (month / day / year)

Modifications

Tested by Office at

Open site at

Training Research Co., Ltd.

2F, No. 571, Chung Hsiao E. Road, Sec.7, Taipei, Taiwan

No. 5-3, Lane 21, Yen Chiu Yuan Rd., Sec. 4, Taipei, Taiwan

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★FCC ID : JCH-FM56PCL

Contents

Chapter 1 Introduction	
Description of EUT	3
Configuration of Test Setup	4
List of Support Equipment	
Chapter 2 Conducted Emission Test	
Test Condition and Setup	7
Conducted Test Placement	8
Chapter 3 Radiated Emission Test	
Test Condition and Setup	9
Radiated Test Placement	10
Appendix A:	
Conducted test result	11
Appendix B:	
Radiated test result	12

Chapter 1 Introduction

Description of EUT:

This Fax/Data/Voice modem card is a data communication device. It is designed to install in the personal computer and makes your data equipment available to transmit and receive data via the public telephone network.

Connections of EUT:

- (1)Put the EUT into a personal computer's bus and screw it.
- (2)Line jack of EUT connects with a line cable to the PABX located remotely.
- (3)Phone jack of EUT connects with a telephone set.
- (4)Spk jack of EUT connects a pairs of speakers.
- (5) Mic jack of EUT connects a microphone.

Test method:

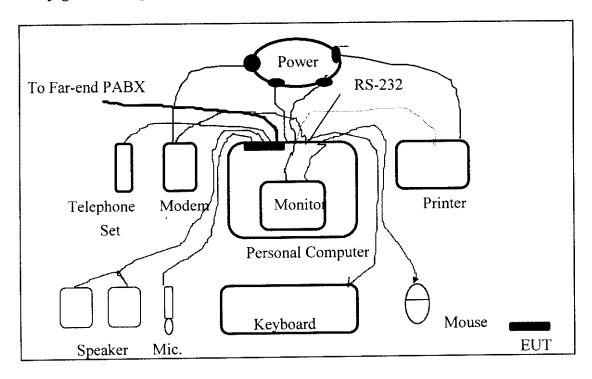
Pretest was found that the emission of operating mode is worse than standby mode. So, The final test is made at the operating mode.

During testing, the EUT was operated at "transmitting" and "receiving" mode simultaneously.

While testing, the transmitting rate was set to "AUTO" which means it transmitted the test file depending on the telephone line condition, normally the operating rate is the highest speed. The test placement as the photographs showed is the worst case emission placed. (If the emission is close to the ambient, the resolution BW and view resolution will be reduced and the data will be recorded by detection of maximum hold peak mode.)

The testing configuration of test setup is showing in the next page.

Configuration of test setup



Connections:

PC:

- *Serial A port --- a external modem
- *Serial B port --- a 76 cm shielded RS232 cable
- *Printer port --- a Printer
- *Keyboard port --- a Keyboard
- *Mouse port --- a Mouse
- *Monitor port --- a monitor

(Each port on PC is connected with suitable device)

EUT:

- *Line jack --- via 15 m RJ11C cable to PABX located remotely
- *Phone jack --- via a 7 feet RJ11C cable to telephone set
- *Spk. jack --- a pairs of speakers with 1.2 m long wire
- *Mic. Jack --- a dynamic microphone with 3 m long wire

List of support equipment

Conducted (Radiated) test:

PC : HP

Model : Vectra VE2

Serial No. : SG61803151 (SG61802786)

FCC ID : HCJVECTRAVL5

Power type : AC 117 VAC, switching

Power cord : non-Shielded, 1.7m long, Plastic, no ferrite core

Monitor : HP

Model No. : D2084 (D2813)

Serial No. : KR4397004 (TW63803597) FCC ID : CSYSC-428VSP (A3KM043)

Power type : 117VAC, Switching

Power cord : Non-Shielded, 3m long, no ferrite core

Data cable : Shielded, 1.8m long, with ferrite core

Keyboard : HP

Model No. : C3757 #ABO (C3346A #ABO) Serial No. : C3757-60423 (C3346-60231)

FCC ID : CIGE03614

Power type : By PC

Data cable : Shielded, 1.8m long, with ferrite core

Printer : EPSON

Model No. : P78PA (P70RA)

Serial No. : 0EE0014030 (10010386)

FCC ID : BKM9A8P70RA

Power type : Linear

Power cord : Non-shielded, 2m long, no ferrite core

Data cable : Shielded, 1.84m long, no ferrite core (1.7m)

Modem : ACEEX
Model No. : XDM-96

Model No. : XDM-9624 FCC ID : IFAXDM-9624

Power type : Linear

Power cord : Non-shielded, 1.9m long, no ferrite cord

Data cable : RS232, Shielded, 1.2m long, no ferrite core

RJ11C x 2, 7' long non-shielded, no ferrite core

PABX : King Design

Model No. : KD8705-A

Serial No. : GV101101186

Power type : 110 VAC 50/60Hz

Power cord : Non - Shielded

Microphone: KOKA

Model : DM-515

Power type : Dynamic

Data cable : non-Shielded, 3m

Speaker : J-S Model : J-006

Data cable : non-Shielded, 1.2 m

Mouse : Hewlett Packard mouse

Model No. : C3751B

Serial No. : LCA52707170 FCC ID : DZL210582 Power type : Powered by PC

Power Cable : Non – Shielded. 5.5' long, Plastic hoods, No ferrite bead

Chapter 2 Conducted emission test

Test condition and setup:

All the equipment is placed and setup according to the ANSI C63.4 - 1992.

The EUT is assembled on a wooden table which is 80 cm high, is placed 40 cm from the back-wall which is a vertical conducting plane. One LISN is for EUT, the other LISN is for support equipment. They are all placed on the conductive ground .The EUT's LISN connect a line switch box for selecting L1 or L2, then connect to a preamplifier and spectrum.

The spectrum scans from 450KHz to 30MHz. Conducted emission levels are detected at max. peak mode. But if the max. peak mode failed, it will be measured by CISPR's quasi-peak detection mode.

While testing, there is a the worst-emission plot printed at peak detection mode, and there are more than 6 highest emissions relative to limit recorded. The plot is kept as the original data, not included in test report.

List of test Instrument:

Preamplifier

Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
Spectrum analyzer	8591EM	ΗP	3619A00821	10/06/97	10/06/98
LISN (EUT)	3825/2	EMCO	9411-2284	05/15/97	05/15/98
Preamplifier	8447F	ΗР	2944A03706	05/13/97	05/15/98

Calibration Date

TRC ----- 05/15/97 05/15/98 Line switch box AC1-003 AC1-002 TRC ----- 05/15/97 05/15/98 Line selector

The level of confidence of 95%, the uncertainty of measurement of conducted emission is ± 2.4 dB.

Test Result: Pass (Appendix A)

8447F

Chapter 3 Radiated emission test

Test condition and setup:

Pretest: Prior to the final test (OATS test), the EUT is placed in a shielded enclosure, GTEM, and scan from 30MHz to 1GHz. This is done to ensure the radiation exactly emits form the EUT.

Final test: Final radiation measurements is made on a 3 - meter, open-field test site. The EUT is placed on a nonconductive table which is 0.8 m height, the top surface is 1.0×1.5 meter. All the placement is according to ANSI C63.4 - 1992.

The spectrum is examined from 30 MHz to 1000 MHz measured by HP spectrum.

The EMCO whole range Antenna is used to measure frequency from 30 MHz to 1GHz. The final test is used the spectrum HP 8594EM.

Measure more than six top marked frequencies generated form pretest by computer step by step at each frequency. The EUT is rotated 360 degrees, and antenna is raised and lowered from 1 to 4 meters to find the maximum emission levels. The antenna is used with both horizontal and vertical polarization.

Appropriated preamplifier which is made by TRC is used for improving sensitivity and precautions is taken to avoid overloading .The spectrum analyzer's 6dB bandwidth is set to 120 KHz, and the EUT is measured at quasi-peak mode.

If the emission is close to the frequency band of ambient, the data will be rechecked by the tester and the corrected data will be written in the test data sheet. If the emission is just within the ambient, the data from GTEM will be taken as the final data.

Lis	t of	test	Instrument:
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Ca	libra	tion	Date

Instrument Name	Model No.	Brand	Serial No.	Last	Next
Spectrum analyzer	8568B	НР	3004A18617	05/15/97	05/15/98
Quasi-peak Adapter	85650A	ΗP	2521A00984	05/15/97	05/15/98
RF Pre-selector	85685A	ΗP	2947A01011	05/15/97	05/15/98
Spectrum analyzer	8594EM	ΗP	3619A00198	08/13/97	08/13/98
Antenna (30M-2G Hz)	3142	EMCO	9610-1094	10/30/97	10/30/98
Open test side (Antenna	a, Amplify, cab	le calibrat	ed together)	05/15/97	05/15/98

The level of confidence of 95%, the uncertainty of measurement of radiated emission is \pm 4.96 dB.

Test Result: Pass (Appendix B)

Appendix A

Conducted Emission Test Result:

Testing room : Temperature $\,:\,$ 24.2 ° C $\,$ Humidity : 80.7 % RH

Line 1

Frequency	Amplitude	Limit	Margin
(MHz)	(dBuV)	(dBuV/m)	(dB)
1.484	33.79	48.00	-14.21
2.075	32.33	48.00	-15.67
10.469	31.69	48.00	-16.31
11.130	34.79	48.00	-13.21
12.085	37.38	48.00	-10.62
16.117	46.95	48.00	-1.05
16.776	30.17	48.00	-17.83
20.068	35.77	48.00	-12.23
24.082	37.91	48.00	-10.09
28.088	40.25	48.00	-7.75

Line 2

Frequency	Amplitude	Limit	Margin
(MHz)	(dBuV)	(dBuV)	(dB)
1.410	35.83	48.00	-12.17
2.001	33.67	48.00	-14.33
4.951	31.67	48.00	-16.33
10.396	31.82	48.00	-16.18
12.011	37.28	48.00	-10.72
16.044	46.35	48.00	-1.65
20.068	36.26	48.00	-11.74
21.748	32.61	48.00	-15.39
24.082	37.68	48.00	-10.32
28.088	40.37	48.00	-7.63

Report No.: W0115276, Internal 56K Fax/Data/Voice modem card, FCC Class B

Test date: 04/20/98 Training Research Co., Ltd., TEL:886-2-7881332, Fax:886-2-7857408

Appendix B

Radiated Emission Test Result: (Horizontal)

Test Conditions:

Testing room: Temperature: 18.80° C Humidity: 68 % RH
Testing site: Temperature: 18.90° C Humidity: 80 % RH

Frequency	Reading	Ant.	Table	Correction	Corrected	Class B	Margin
	Amplitude	Height		Factors	Amplitude	limit	
MHz	dBuV	m	degree	dB/m	dBuV/m	dBuV/m	dB
		, 1					
112.897	47.68	1.00	24	-12.60	35.08	43.50	-8.42
141.121	47.95	1.00	222	-12.41	35.54	43.50	-7.96
169.349	47.70	1.00	142	-11.40	36.30	4350	-7.20
366.913	51.87	1.00	124	-17.42	34.45	46.00	-11.55
423.361	55.77	1.00	94	-16.66	39.11	46.00	-6.89
451.585	49.76	1.00	164	-15.99	33.77	46.00	-12.23
663.377	38.69	1.00	3	-8.42	30.27	46.00	-15.73
705.604	39.04	1.00	253	-7.04	32.00	46.00	-14.00

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Note:

- 1. Margin = Amplitude limit, if margin is minus means under limit.
- 2.Corrected Amplitude = Reading Amplitude + Correction Factors
- 3.Correction factor = Antenna factor + (Cable Loss Amplitude gain)

(For example : 30MHz correction factor = 15.5 + (-15.26) = 0.24 dB/m)

Radiated Emission Test Result: (Vertical)

MHz dBuV m degree dB/m dBuV/m dBuV/m dB 112.897 53.55 1.00 206 -12.60 40.95 43.50 -2.55 141.121 53.15 1.00 65 -12.41 40.74 43.50 -2.76 169.349 46.30 1.00 291 -11.40 34.91 43.50 -8.60 366.913 44.76 1.00 189 -17.42 27.34 46.00 -18.66 423.361 50.39 1.00 188 -16.66 33.73 46.00 -12.27 4510585 49.68 1.00 159 -15.99 33.69 46.00 -12.31 663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Class B	Margin
141.121 53.15 1.00 65 -12.41 40.74 43.50 -2.76 169.349 46.30 1.00 291 -11.40 34.91 43.50 -8.60 366.913 44.76 1.00 189 -17.42 27.34 46.00 -18.66 423.361 50.39 1.00 188 -16.66 33.73 46.00 -12.27 4510585 49.68 1.00 159 -15.99 33.69 46.00 -12.31 663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	MHz	dBuV	m	degree	dB/m	dBuV/m	dBuV/m	dB
141.121 53.15 1.00 65 -12.41 40.74 43.50 -2.76 169.349 46.30 1.00 291 -11.40 34.91 43.50 -8.60 366.913 44.76 1.00 189 -17.42 27.34 46.00 -18.66 423.361 50.39 1.00 188 -16.66 33.73 46.00 -12.27 4510585 49.68 1.00 159 -15.99 33.69 46.00 -12.31 663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02								1
169.349 46.30 1.00 291 -11.40 34.91 43.50 -8.60 366.913 44.76 1.00 189 -17.42 27.34 46.00 -18.66 423.361 50.39 1.00 188 -16.66 33.73 46.00 -12.27 4510585 49.68 1.00 159 -15.99 33.69 46.00 -12.31 663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	112.897	53.55	1.00	206	-12.60	40.95	43.50	-2.55
366.913 44.76 1.00 189 -17.42 27.34 46.00 -18.66 423.361 50.39 1.00 188 -16.66 33.73 46.00 -12.27 4510585 49.68 1.00 159 -15.99 33.69 46.00 -12.31 663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	141.121	53.15	1.00	65	-12.41	40.74	43.50	-2.76
423.361 50.39 1.00 188 -16.66 33.73 46.00 -12.27 4510585 49.68 1.00 159 -15.99 33.69 46.00 -12.31 663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	169.349	46.30	1.00	291	-11.40	34.91	43.50	-8.60
4510585 49.68 1.00 159 -15.99 33.69 46.00 -12.31 663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	366.913	44.76	1.00	189	-17.42	27.34	46.00	-18.66
663.377 37.41 1.00 301 -8.42 29.00 46.00 -17.00 705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	423.361	50.39	1.00	188	-16.66	33.73	46.00	-12.27
705.601 38.02 1.00 358 -7.04 30.98 46.00 -15.02	4510585	49.68	1.00	159	-15.99	33.69	46.00	-12.31
	663.377	37.41	1.00	301	-8.42	29.00	46.00	-17.00
***	705.601	38.02	1.00	358	-7.04	30.98	46.00	-15.02

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Final statement:

Test date: 04/20/98

This test report, measurements made by TRC are traceable to the NIST.