

*FCC PART 15, SUBPART B
CLASS B TEST REPORT
TEST METHOD: ANSI C63.4-1992
LIMITS: CISPR 22 CLASS B*

for

COMPUTER KEYBOARD
Model: RT51XXXXX
FCC ID: AQ6-51K15

Prepared for

NMB TECHNOLOGIES, INC.
9730 INDEPENDENCE AVENUE
CHATSWORTH, CA 91311

COMPATIBLE ELECTRONICS INC.
2337 TROUTDALE DRIVE
AGOURA, CALIFORNIA 91301
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DATE: JUNE 11, 1998

	REPORT BODY	APPENDICES				TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	
PAGES	17	2	2	8	7	36

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TABLE OF CONTENTS

Section / Title	PAGE
GENERAL REPORT SUMMARY	4
SUMMARY OF TEST RESULTS	4
1. PURPOSE	5
2. ADMINISTRATIVE DATA	6
2.1 Location of Testing	6
2.2 Traceability Statement	6
2.3 Cognizant Personnel	6
2.4 Date Test Sample was Received	6
2.5 Disposition of the Test Sample	6
2.6 Abbreviations and Acronyms	6
3. APPLICABLE DOCUMENTS	7
4. DESCRIPTION OF TEST CONFIGURATION	8
4.1 Description of Test Configuration - EMI	8
4.1.1 Cable Construction and Termination	9
5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT	10
5.1 EUT and Accessory List	10
5.2 EMI Test Equipment	11
6. TEST SITE DESCRIPTION	12
6.1 Test Facility Description	12
6.2 EUT Mounting, Bonding and Grounding	12
7. TEST PROCEDURES	13
7.1 RF Emissions	13
7.1.1 Conducted Emissions Test	13
7.1.2 Radiated Emissions Test	14
7.1.3 RF Emissions Test Results	15
7.1.4 Sample Calculations	16
8. CONCLUSIONS	17



LIST OF APPENDICES

APPENDIX	TITLE
A	Modifications to the EUT
B	Additional Models Covered Under This Report
C	Diagrams, Charts and Photos <ul style="list-style-type: none"> • Test Setup Diagrams • Antenna and Effective Gain Factors • Radiated and Conducted Emissions Photos
D	Data Sheets

LIST OF TABLES

TABLE	TITLE
1	Conducted Emissions Test Results
2	Radiated Emissions Test Results

LIST OF FIGURES

FIGURE	TITLE
1	Conducted Emissions Test Setup
2	Plot Map And Layout of Test Site



GENERAL REPORT SUMMARY

This electromagnetic emission and immunity test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel (except where specified) according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full with the written permission of Compatible Electronics.

The immunity data included in this report are not covered by NVLAP accreditation. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: Computer Keyboard
Model: RT51XXXXX
S/N: None

Product Description: This is a keyboard used for data input on a computer.

Modifications: The EUT was not modified during the testing.

Manufacturer: NMB Technologies, Inc.
9730 Independence Avenue
Chatsworth, CA 91311

Test Date: May 28, 1998

Test Specifications: EMI requirements
FCC Title 47, Part 15 Subpart B, CLASS B per CISPR 22 Limits
Test Procedure: ANSI C63.4: 1992.

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz - 30 MHz.	Complies with the Class B limits of CISPR 22 as called out in FCC Title 47, Part 15 Subpart B.
2	Radiated RF Emissions, 30 MHz - 1000 MHz.	Complies with the Class B limits of CISPR 22 as called out in FCC Title 47, Part 15 Subpart B.



1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Computer Keyboard Model: RT51XXXXX. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 1992. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by C.I.S.P.R. Publication 22 for Information Technology Equipment from 150 kHz to 1 GHz. Under paragraph G of Section 15.109 of the Code of Federal Regulations Title 47, part 15 of the FCC rules, the FCC accepts the international standards set forth in C.I.S.P.R. Publication 22.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI/EMC tests described herein were performed at the test facility of Compatible Electronics, 2337 Troutdale Drive, Agoura, California 91301.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

NMB Technologies, Inc.

Bob Dickerman	Associate Electronic Engineer
John Guo	Manager, Electronic Engineering

Compatible Electronics Inc.

Ruby A. Hall	Test Engineer
Jeff S. Klinger	Lab Manager

2.4 Date Test Sample was Received

The test sample was received on May 20, 1998.

2.5 Disposition of the Test Sample

The test sample remains at Compatible Electronics, Inc.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

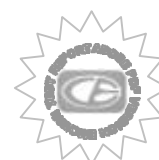
RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network



3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CISPR 22 1993	Limits and methods of measurement of radio interference characteristics of information technology equipment.
CISPR 16 1993	Specification for radio disturbance and immunity measuring apparatus and methods.
FCC Title 47, Subpart B.	FCC Rules - Radio frequency devices (including digital devices).
ANSI C63.4 1992	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.

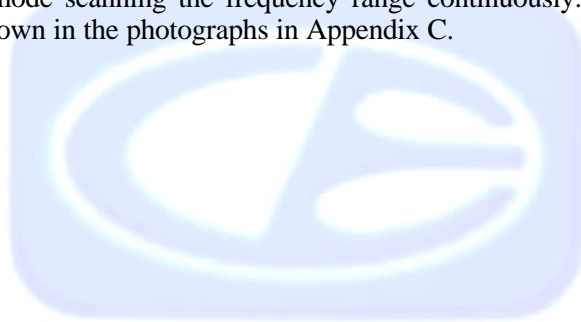


4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

The EUT was configured in a tabletop configuration. The EUT was connected to a Computer via the Keyboard port. A Monitor, Modem, Printer and Mouse were also connected to the Computer via the Video, Serial, Parallel and Mouse ports respectively. The EUT was tested in an Idle mode powered on and awaiting data input/output and sending data (capital Hs) via keystroke. It was also checked with both a 1.5 meter cord-set and a 2 meter cord-set.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration sending Hs via keystroke with the 2 meter cord-set. The cables were moved to maximize the emissions. The final conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the spectrum Analyzer in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix C.



4.1.1 Cable Construction and Termination

Cable 1

This is a 2 meter foil shielded round cable connecting the EUT to the Computer. It has a 4 pin Mini DIN metallic connector at the Computer end, and is hardwired at the EUT end. The shield of the cable was grounded to the chassis via the connector.

Cable 2

This is a 6 foot braid and foil shielded round cable connecting the Monitor to the Computer. It has a D-15 pin metallic connector at the Computer end, and is hardwired at the Monitor end. The shield of the cable was grounded to the chassis via the connector. The cable was bundled to a length of 1 meter.

Cable 3

This is a 5 foot braid and foil shielded round cable connecting the Printer to the Computer. It has a 36 pin metallic Centronics connector at the Printer end, and a D-25 pin metallic connector at the Computer end. The shield of the cable was grounded to the chassis via the connectors. The cable was bundled to a length of 1 meter.

Cable 4

This is a 5 foot braid and foil shielded cable connecting the Modem to the Computer. It has a D-25 pin metallic connector at the Modem end, and a D-9 pin metallic connector at the Computer end. The shield of the cable was grounded to the chassis via the connectors. The cable was bundled to a length of 1 meter.

Cable 5

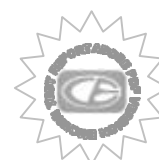
This is a 6 foot foil shielded cable connecting the Mouse to the Computer. It has a 6 pin Mini DIN metallic connector at the Computer end, and is hardwired at the Mouse end. The shield of the cable was grounded to the chassis via the connector.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT TYPE	MANUFACTURER	MODEL	SERIAL NUMBER
COMPUTER KEYBOARD (EUT)	NMB TECHNOLOGIES, INC.	RT51XXXXX	None FCC ID: AQ6-51K15
PENTIUM COMPUTER	INTEL	Prod. Code: S100EDZ8FLC	A05605228 FCC ID: EJMBATTAHITI
MONITOR	VIEWSONIC	1449	3742968085 FCC ID: K351449
MODEM	HAYES	231AA	A05031083453 FCC ID: BFJ9D93108US
DESKJET 600 PRINTER	HEWLETT PACKARD	C2184A	CN5A41R10J FCC ID: B94C2184X
MOUSE	LOGITECH	M-CQ38	LTS54201078 FCC ID: DZLM04



5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
Spectrum Analyzer	Hewlett Packard	8568B	2601A02643	Nov. 26, 1997	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00485	Nov. 26, 1997	1 Year
Preamplifier	Com Power	PA-102	1016	Apr. 20, 1998	1 Year
RF Attenuator	Sertek	412-10	XX01	Aug. 22, 1997	1 Year
LISN	Com Power	LI-200	01758	Jul. 15, 1997	1 Year
LISN	Com Power	LI-200	01763	Jul. 15, 1997	1 Year
LISN	Com Power	LI-200	01734	Jul. 15, 1997	1 Year
LISN	Com Power	LI-200	01731	Jul. 15, 1997	1 Year
Biconical Antenna	Com Power	AB-100	01545	Apr. 17, 1998	1 Year
Log Periodic Antenna	Com Power	AL-100	01108	Apr. 16, 1998	1 Year
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TT-112A	N/A	N/A	N/A
Computer	Hewlett Packard	9153B	2647A01489	N/A	N/A
Printer	Hewlett Packard	2225A	2752S15982	N/A	N/A
Plotter	Hewlett Packard	7440A	2539A57182	N/A	N/A



6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1.2 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was grounded only through the Computer's chassis.



7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage, and the spectrum analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 1992. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 0.15 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable and peripheral placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The final data was collected under program control by the computer in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The six highest emissions are listed in Table 1.



7.1.2 Radiated Emissions Test

The spectrum analyzer was used as a measuring meter. The Preamplifier was used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak was used only for those readings which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was 120 kHz.

Broadband biconical and log periodic antennas were used as transducers during the measurement. The biconical antenna was used from 30 MHz to 300 MHz, and the log periodic antenna was used from 300 MHz to 1 GHz. The frequency spans were wide (30 MHz to 88 MHz, 88 MHz to 216 MHz, 216 to 300 MHz and 300 MHz to 1 GHz) during preliminary investigations. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 1992. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 10 meter test distance to obtain final test data. The six highest emissions are listed in Table 2.



7.1.3 RF Emissions Test Results

Table 1.0 CONDUCTED EMISSION RESULTS
COMPUTER KEYBOARD Model: RT51XXXXX

Frequency MHz	Emission Level* dBuV	Average Specification Limit dBuV	Delta dB
.1944	43.8	53.8	-10.0
.4511	37.3	46.8	-9.5
.4534	36.8	46.8	-10.0
.5176	35.8	46.0	-10.2
.5908	37.8	46.0	-8.2
16.85	39.2	50.0	-10.8

Table 2.0 RADIATED EMISSION RESULTS
COMPUTER KEYBOARD Model: RT51XXXXX

Frequency MHz	Meter* Reading dBuV/m	Effective Gain ** dB	Antenna Factor ** dB/m	Distance Factor dB	Corrected Reading dBuV/m	Spec. Limit dBuV/m	Delta dB
41.87	49.7#	35.0	11.8	0	26.5	30	-3.5
58.60	50.2	34.6	10.5	0	26.1	30	-3.9
66.81	50.0	34.5	10.1	0	25.6	30	-4.4
75.37	51.0#	34.4	9.4	0	26.0	30	-4.0
83.54	51.8#	34.3	8.3	0	25.8	30	-4.2
465.31	46.3#	30.0	19.3	0	35.6	37	-1.4

Notes:

- * The complete emissions data is given in Appendix D of this report.
- ** The effective gain factor includes the cable loss. The correction factors for the antenna and effective gain are attached in [Appendix C](#) of this report.
- # Quasi-Peak Reading



7.1.4 Sample Calculations

The Preamplifier was used to increase the sensitivity of the spectrum analyzer. A correction factor for the antenna, preamplifier, cable loss and a distance factor (if any), must be applied to the meter reading before a true field strength reading can be obtained. For greater efficiency and convenience, instead of using these correction factors for each meter reading, the specification limit was modified to reflect these correction factors at each frequency, so that the meter readings can be compared directly to the modified specification limit, referred to henceforth as the corrected meter reading limit (CML).

The equation can be derived in the following manner:

$$\text{Corrected Meter Reading} = \text{meter reading} + F - G$$

where: F = antenna factor
 G = effective gain (amplifier gain - cable loss)

Therefore, the equation for determining the corrected meter reading limit is:

$$\text{CML} = \text{spec. limit} - F + G$$

A table of corrected meter reading limits was used to permit immediate comparison of the meter reading and determine if the emission level exceeded the specification limit at that frequency. The correction factors for the antenna and the effective gain are attached in Appendix C of this report. The data sheets are attached in Appendix D.

The distance factor D is 0 when the test is performed at a distance of 10 meters.



8. CONCLUSIONS

The Computer Keyboard Model: RT51XXXXX meets all of the **Class B** specification limits defined by C.I.S.P.R. Publication 22 for Information Technology Equipment from 150 kHz to 1 GHz. Under paragraph G of section 15.109 of the Code of Federal Regulations Title 47, Part 15, of the FCC Rules, the FCC accepts the international standards set forth in C.I.S.P.R. Publication 22.





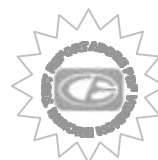
APPENDIX A

MODIFICATIONS TO THE EUT



MODIFICATIONS TO THE EUT

There were no modifications made to the EUT during the test.





APPENDIX B

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***



ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

COMPUTER KEYBOARD
Model: RT51XXXXX

There were no additional models covered under this report.





APPENDIX C

DIAGRAMS, CHARTS AND PHOTOS

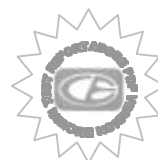
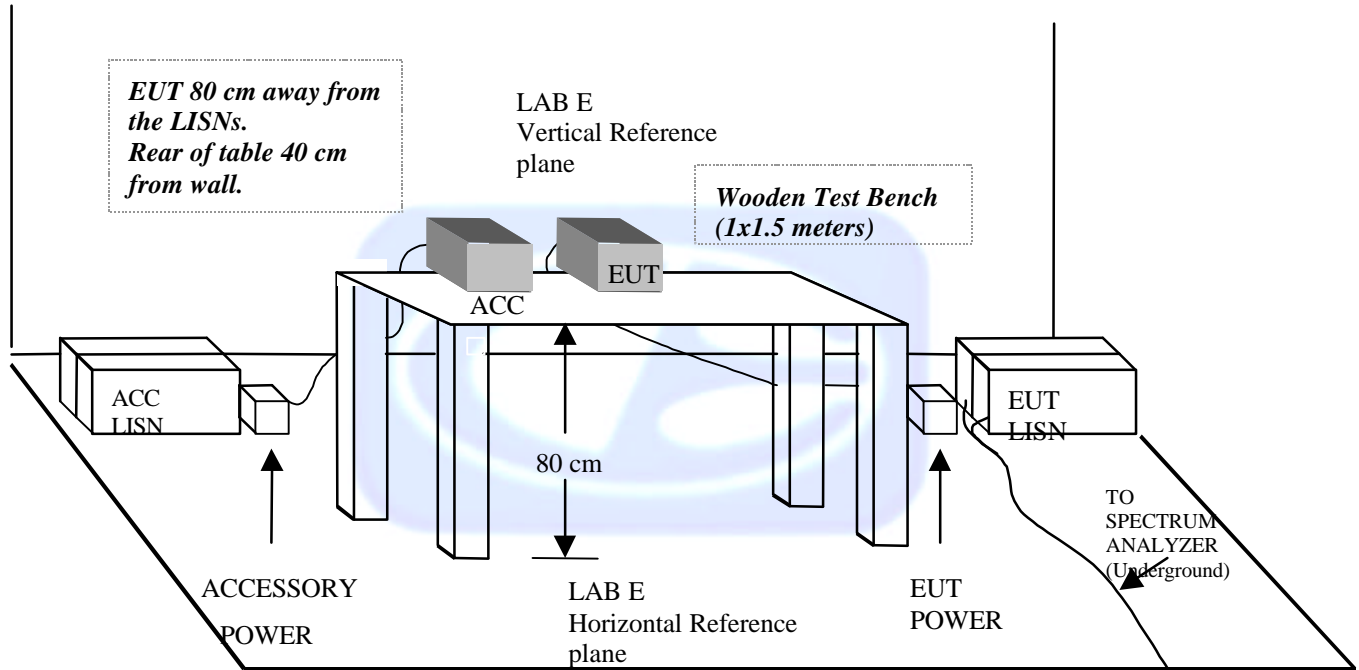
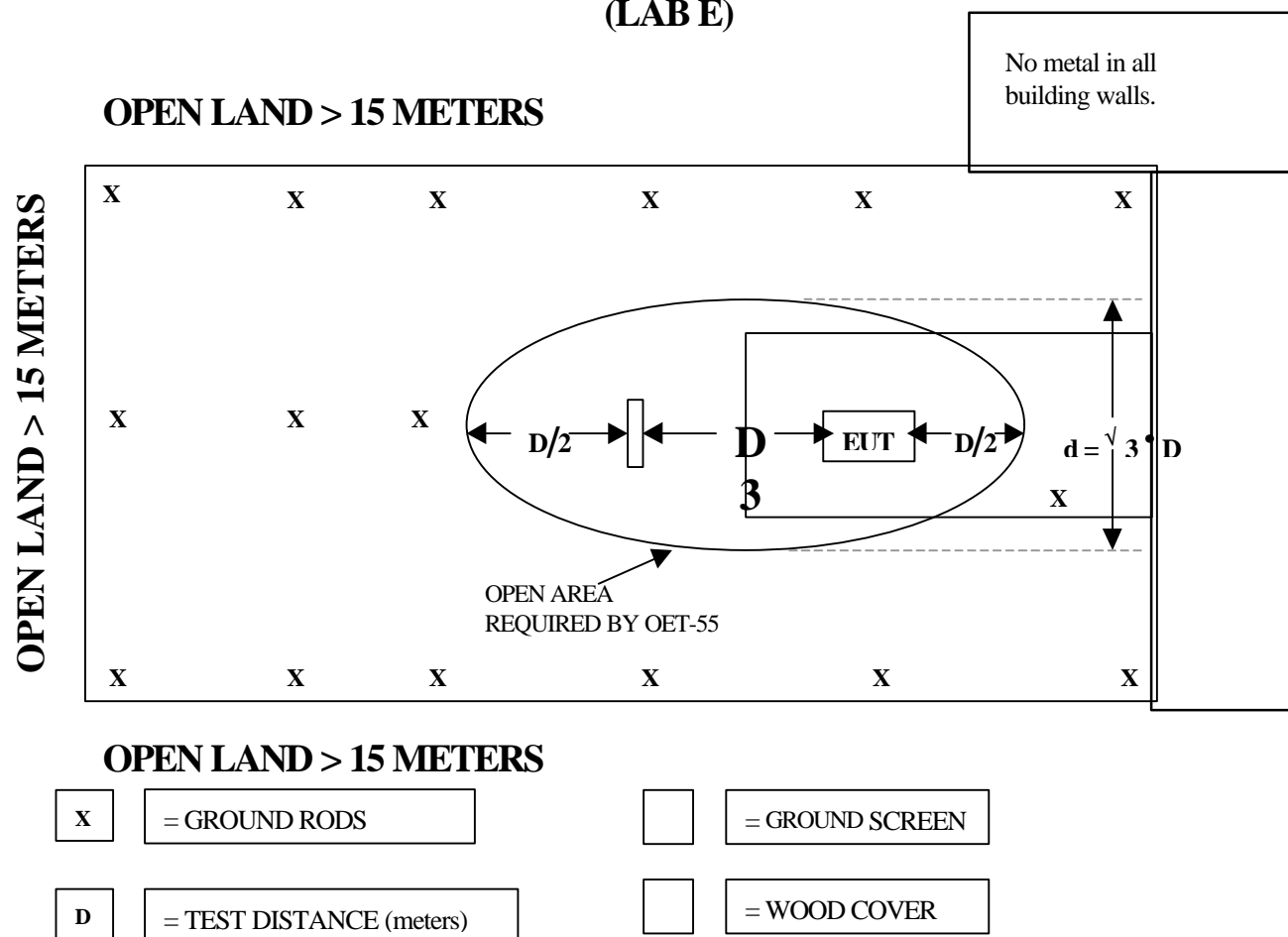
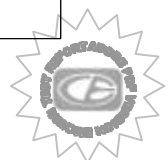
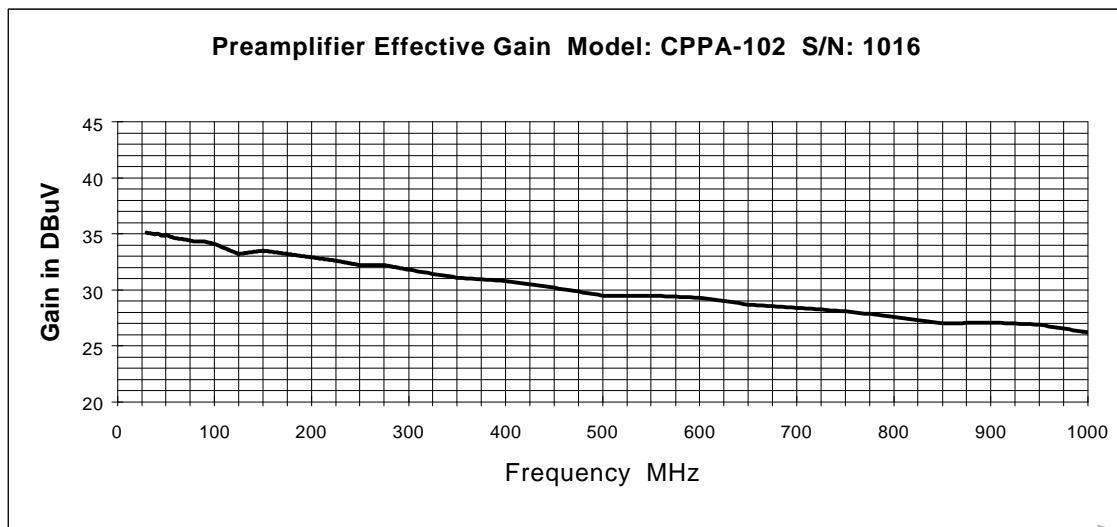
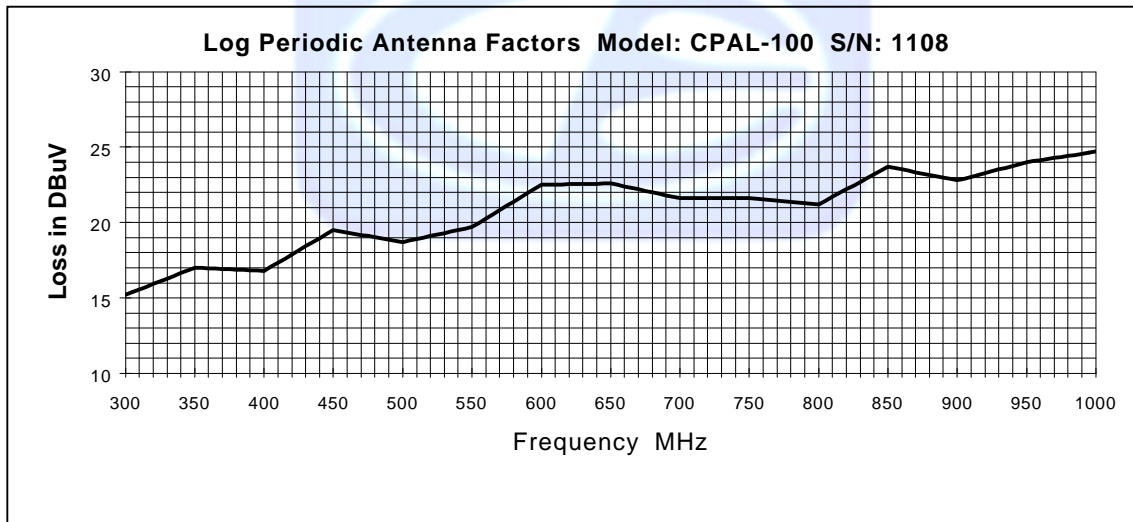
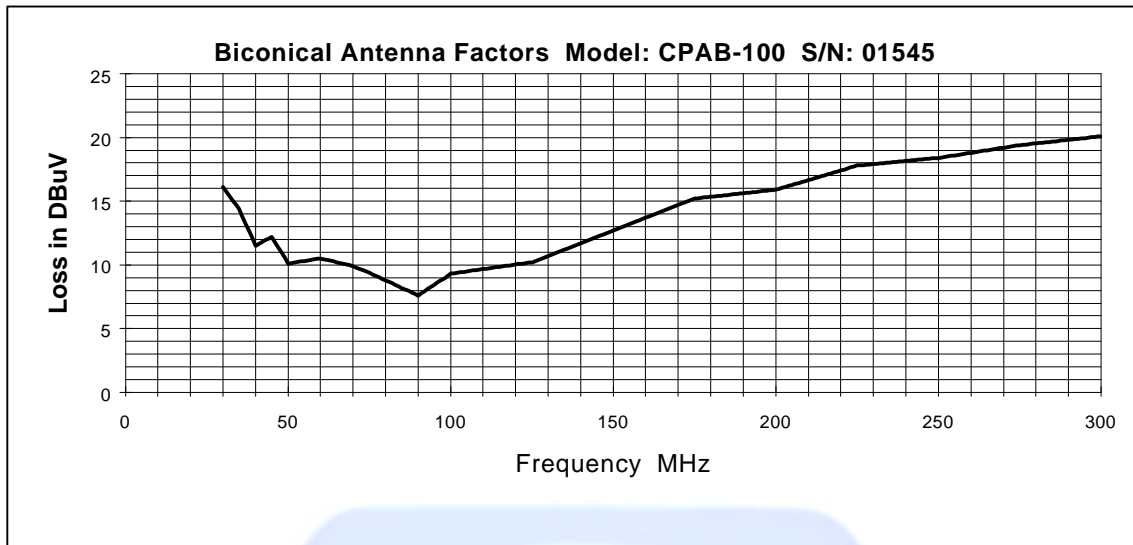


FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

(LAB E)







FRONT VIEW

NMB TECHNOLOGIES, INC.

COMPUTER KEYBOARD

Model: RT51XXXXX

FCC CLASS B USING CISPR LIMITS - RADIATED EMISSIONS - 5-28-98

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**





REAR VIEW

NMB TECHNOLOGIES, INC.

COMPUTER KEYBOARD

Model: RT51XXXXX

FCC CLASS B USING CISPR LIMITS - RADIATED EMISSIONS - 5-28-98

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**





FRONT VIEW

NMB TECHNOLOGIES, INC.

COMPUTER KEYBOARD

Model: RT51XXXXX

FCC CLASS B USING CISPR LIMITS - CONDUCTED EMISSIONS - 5-28-98

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**





REAR VIEW

NMB TECHNOLOGIES, INC.

COMPUTER KEYBOARD

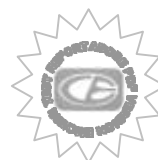
Model: RT51XXXXX

FCC CLASS B USING CISPR LIMITS - CONDUCTED EMISSIONS - 5-28-98

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



APPENDIX D
DATA SHEETS



**RADIATED EMISSIONS**COMPANY NAME: NMB TECHNOLOGIES DATE: 5-28-98EUT: KEYBOARD EUT S/N: NONEEUT MODEL: RT51XXXXX LOCATION: ☐ BREA ☐ SILVERADO ☒ AGOURASPECIFICATION: CISPR 22 CLASS: B TEST DISTANCE: 10M LAB: EANTENNA: ☐ LOOP ☒ BICONICAL ☒ LOG ☐ HORN POLARIZATION: ☒ VERT ☐ HORIZ☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: R. HALLNOTES: 2m cordset 4.189 MHz72°F29% HUMIDITY

Frequency (MHz)	Peak Reading (dBuV/m)	Quasi- Peak (dBuV/m)	Antenna Height (meters)	Azimuth (degrees)	Delta * (dB)	Corrected Limit (dBuV/m)	Comments
33.48	45.3		1.0	90°	-4.7	50.0	
41.87	50.9	49.7	1.0	270°	-3.5	53.2	
50.23	42.4		1.5	45°	-12.4	54.8	
58.60	50.2		1.0	90°	-3.9	54.1	
66.81	50.0		1.0	45°	-4.4	54.4	
75.36	52.7	49.7	4.0	0°	-5.3	55.0	
83.54	54.4	51.8	1.0	0°	-4.2	56.0	
332.36	39.6		1.0	90°	-12.5	52.1	

* DELTA = METER READING - CORRECTED LIMIT

**RADIATED EMISSIONS**COMPANY NAME: NMB TECHNOLOGIES DATE: 5-28-98EUT: KEYBOARD EUT S/N: NONEEUT MODEL: RTSIXXXX LOCATION: ☐ BREA ☐ SILVERADO ☒ AGOURASPECIFICATION: CISPR 22 CLASS: B TEST DISTANCE: 10M LAB: EANTENNA: ☐ LOOP ☒ BICONICAL ☒ LOG ☐ HORN POLARIZATION: ☐ VERT ☒ HORIZ☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: R. HALL

NOTES:

Frequency (MHz)	Peak Reading (dBuV/m)	Quasi- Peak (dBuV/m)	Antenna Height (meters)	Azimuth (degrees)	Delta * (dB)	Corrected Limit (dBuV/m)	Comments
41.88	46.3		4.0	0°	-6.9	53.2	
50.23	41.9		4.0	180°	-12.9	54.8	
58.61	45.8		4.0	90°	-8.3	54.1	
66.77	46.5		4.0	180°	-7.9	54.4	
75.37	53.3	51.0	4.0	270°	-4.0	55.0	
125.08	42.5		4.0	45°	-10.4	52.9	
332.36	41.3		1.5	0°	-10.8	52.1	
360.04	44.5		2.0	0°	-6.5	51.0	
398.83	44.4		1.5	45°	-6.6	51.0	
465.31	47.3	46.3	1.5	45°	-1.4	47.7	COMPUTER - NOT EUT CHASSIS

* DELTA = METER READING - CORRECTED LIMIT

MEASUREMENT NOTES:

NMB TECHNOLOGIES, INC.

KEYBOARD W/INTEL COMPUTER

M/N: RT51XXXXX 28 MAY 1998 15:17:35

BLACK LEAD 110V TEST ENGINEER: R. HALL

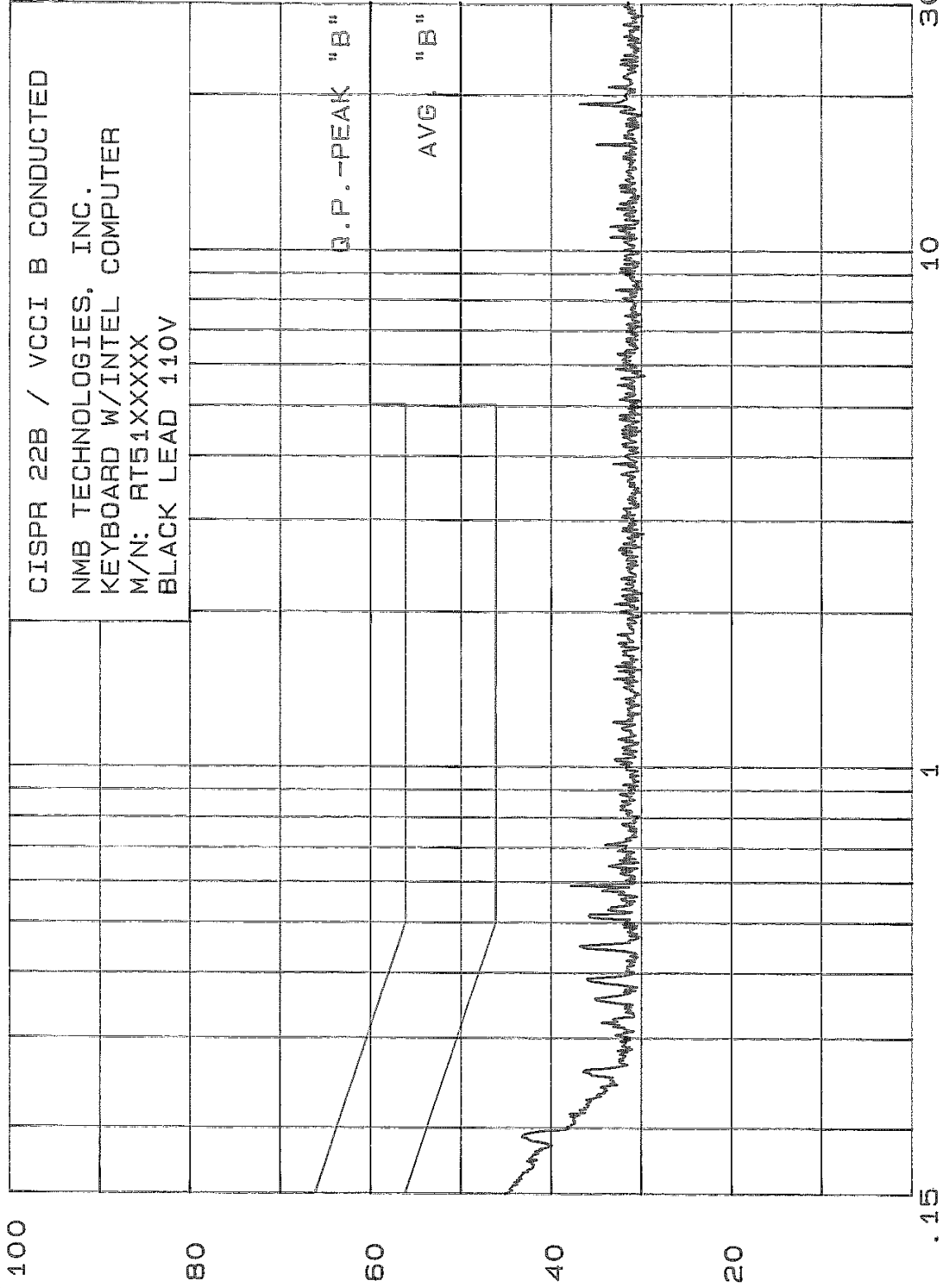
Peaks above -24 dB of Limit Line #1

peak criteria = 3 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	.1934	43.2	-10.6
2	.2587	36.4	-15.0
3	.3214	34.4	-15.2
4	.3573	35.1	-13.6
5	.391	36	-12.0
6	.4534	36.8	-10.0
7	.5176	35.8	-10.2
8	.5908	37.8	-9.2
9	.6465	33.6	-12.4
10	.7111	34	-12.0
11	3.868	33.1	-12.9
12	10.63	33.4	-16.6
13	16.06	35	-15.0
14	19.23	36.8	-13.2

hp
Compatible Electronics, Inc.
EMISSION LEVEL [dBuV] PEAK

28 May 1998 15: 17: 35



FREQUENCY [MHz]

MEASUREMENT NOTES:

NMB TECHNOLOGIES, INC.

KEYBOARD W/INTEL COMPUTER

M/N: RT51XXXXX 28 MAY 1998 15:44:56

WHITE LEAD 110V TEST ENGINEER: R. HALL

Peaks above -16 dB of Limit Line #1
peak criteria = 4 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	.1944	43.8	-10.0
2	.2587	37.6	-13.8
3	.3889	36.8	-11.2
4	.4511	37.3	-9.6
5	.5149	34.7	-11.3
6	.7111	34.9	-11.1
7	.778	34.4	-11.6
8	16.98	35.9	-14.1
9	16.85	39.2	-10.8
10	18.83	37.4	-12.6
11	19.23	35.5	-14.5

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28 May 1998 15: 44: 56

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