

FCC REPORT

UNDER FCC PART15, CLASS B

EUT : RF MOUSE

MODEL : RM001

SRT REPORT # FT0L19

FCC ID: P4XRM001

PREPARED FOR :

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HUA GUO SHAN INDUSTRIAL PARK,
JIE KOU, CHANG AN,
DONG GUAN, GUANG DONG,
CHINA

PREPARED BY :

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ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation



SPECTRUM RESEARCH & TESTING LABORATORY, INC.

CHUNG-LI, TAoyUAN

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

December 31, 2001

Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 200099-0

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1. TEST REPORT CERTIFICATION

APPLICANT DYNAPOINT (DONG GUAN) INC.
ADDRESS HUA GUO SHAN INDUSTRIAL PARK.
JIE KOU, CHANG AN.
DONG GUAN, GUANG DONG.
CHINA
EUT DESCRIPTION RF MOUSE
(A) POWER SUPPLY FROM PC
(B) MODEL RM001
FINAL TEST DATE 01/30/2001

MEASUREMENT PROCEDURE USED :

- * PART 15 SUB PART B OF FCC RULES AND REGULATIONS (47 CFR PART 15)
- * ANSI C63.4 - 1992
- * TEST PROCEDURE AND DATA ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS.

We hereby certify that :

The measurements contained in this report were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable.

TESTING ENGINEER : Nissan Yi **DATE** 01/30/2001
Nissan Yi

SUPERVISOR Sunyou Chen **DATE** 1/30/2001
Sunyou Chen

APPROVED BY Johnson Ho **DATE** 1/30/2001
Johnson Ho

2. TEST STATEMENT

2.1 TEST STATEMENT

This letter is to explain the test condition of this project.
The EUT be tested as the following status.

2. The data was shown in this report reflects the worst-case data for the condition as listed above.
Please disregard any other processor(s) speed shown in this user manual.

3. EUT Conditions

- Transmitting frequency : 27MHz
 - Transmitting power less than 3mW.
 - Working current less than 6mW.
 - Transmit distance 1.5M.
4. NVLAP logo is to be approved by management (it is according to NVLAP requirement if it need) before use.

2.2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS, THE STATEMENT

A. Did have

Any departure from document policies & procedures or from specifications.

Yes _____, No ✓

If yes, the description as below.

- B. The certificate and report shall not be reproduced except in full without the written approval of SRT laboratory.

- C. The report must not be used by the client to claim product endorsement by NVLAP or any agency the government.

- D. This product is a test sample that was shown as the photos of this test report only.

- E. The effect that the results relate only to the items tested.

3. EUT MODIFICATIONS

The following accessories were added to the EUT during testing :

No modification by SRT lab.

4. CONDUCTED POWER LINE TEST**TEST EQUIPMENT**

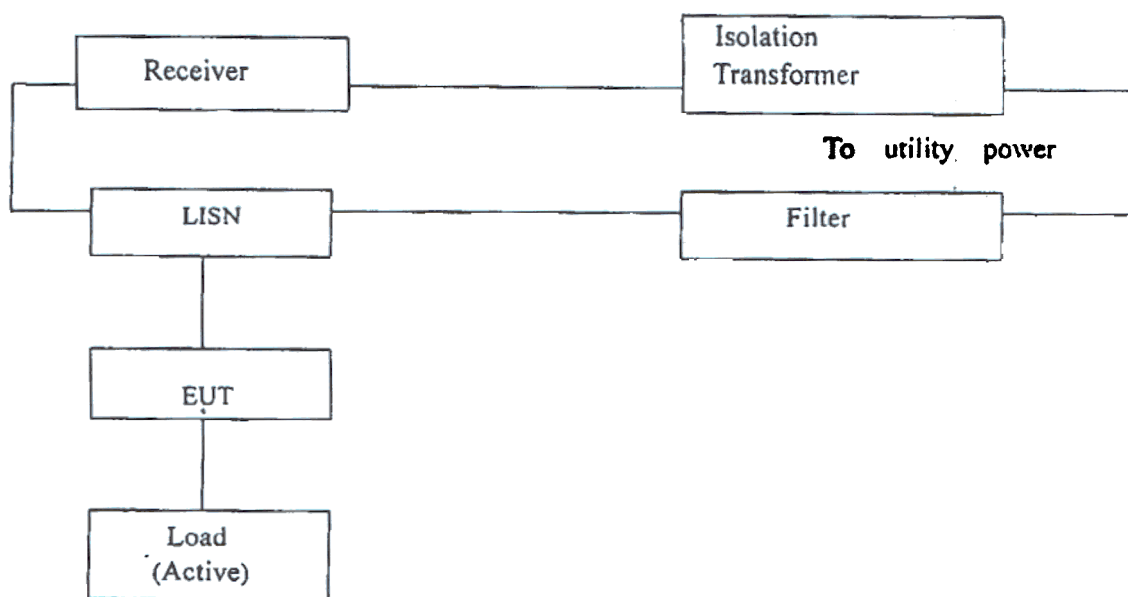
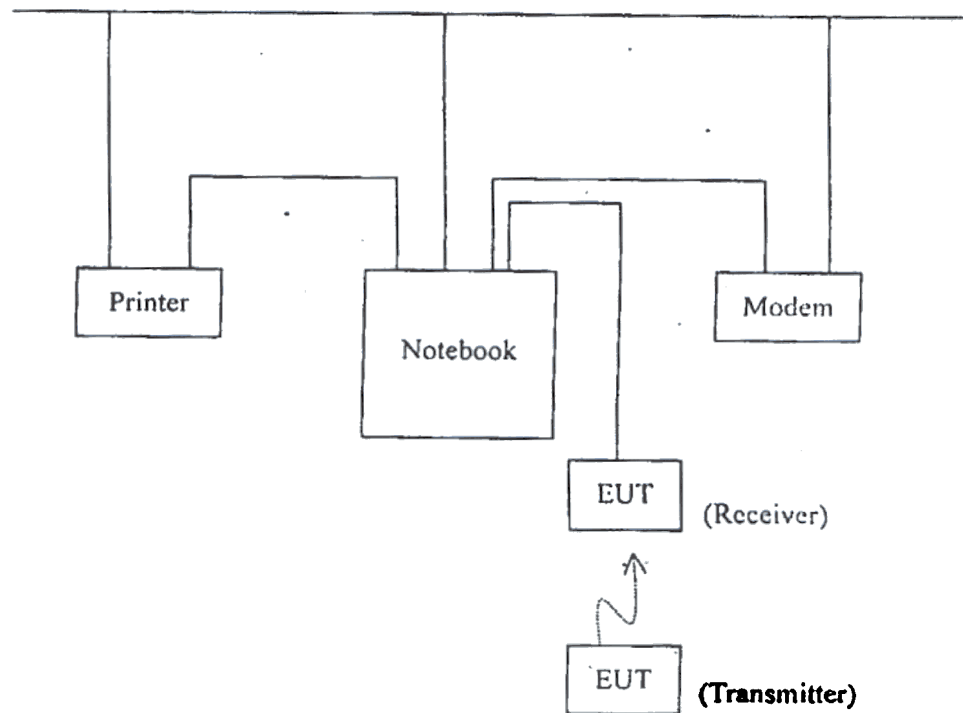
The following test equipment were used during the conducted power line test :

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE	FINA TES
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 826003/008	JULY 2000, ETC	1Y	
EMI TEST RECEIVER	9 KHz TO 2750 MHz	ROHDE & SCHWARZ	ESCS30/ 830245/012	JULY 2000 ETC	1Y	✓
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951315	JULY 2000 ETC	1Y	✓
LISN	50uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951318	JULY 2000 ETC	1Y	✓
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MARCH 2000 ETC	1Y	✓
POWER CONVERTER	0 TO 300 VAC VAC 47-500 Hz	AFC	AFC-1KW/ 850510	MARCH 2000 SRT	1Y	✓

TEST PROCEDURE

The EUT was tested according to ANSI C63.4 - 1992. The frequency spectrum from 0.45 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 of ANSI C63.4 - 1992. Cables and peripherals were moved to find the maximum emission levels for each frequency.

4.3 TEST SETUP



4.4 CONFIGURATION OF THE EUT

The EUT was configured according to ANSI C63.4 - 1992. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

DEVICE	MANUFACTURER	MODEL #	FCCID/DoC
RF MOUSE	DYNAPOINT (DONG GUAN) INC.	RM001	P4XR001

B. INTERNAL DEVICES

[illegible]

C. PERIPHERALS

DEVICE	MANUFACTURER	MODEL # SERIAL #	FCCID / DoC	CABLE
PRINTER	HP	2225C+	DSI6XU2225	1.5m unshielded power cord 1.2m shielded data cable (S2)
MODEM	SMARTEAM	103/212A	EF56A5103/212A	1.5m unshielded power cord 1.2m shielded data cable (S2)
NOTEBOOK	HITACHI	TNB-5900	BJMTNB5900	1.5m unshielded power cord

REMARKS:

- (1). Cable - S1 : Single point shielding.
S2 : 360° shielding.
S3 : Double point shielding

- (2). Cables All 1m or greater in length - bundled according to regulations.

4.5 EUT OPERATING CONDITION

Operating condition is according to ANSI C63.4 -: 1992.

1. EUT power on.
2. Under WIN ME run "EMI TEST" program.
"H" pattern sent to the following peripherals :
 - Monitor or VGA
 - RS232 (modem)
 - Keyboard
 - Printer
 - FDD
 - HDD

4.6 CONDUCTED POWER LINE EMISSION LIMITS

FREQUENCY RANGE (MHz)	CLASS A	CLASS B
0.45 - 1.705	60.0 dBuV	48.0 dBuV
1.705 - 30	69.5 dBuV	48.0 dBuV

NOTE: In the above table, the tighten limit applies at the band edges.

4.7 CONDUCTED POWER LINE TEST RESULTS

The frequency spectrum from 0.45 MHz to 30 MHz was investigated. All readings are quasi-peak values with a resolution bandwidth of 9 KHz.

Temperature : 20 °CHumidity 69 %RH

FREQUENCY (MHz)	LINE1 (dBuV)	LINE2 (dBuV)	LIMIT (dBuV)
0.49	*	28.4	48.0
0.55	29.1	*	48.0
1.05	38.1	40.2	48.0
1.42	27.0	30.6	48.0
3.53	*	28.6	48.0
20.66	29.6	25.0	48.0

REMARKS

- (1). * = Measurement does not apply for this frequency
- (2). Uncertainty in conducted emission measured is ± 2 dB
- (3). Any departure from specification : N/A

SIGNED BY TESTING ENGINEER :

Nissay