

RFI / EMI TEST REPORT

APPLICANT : YUEHUA ELECTRONICS CO., LTD.

E. U. T. : 27MHz RF Wireless Mouse

TRADE NAME : N/A

FCC ID : NH3ASRMS001

REGULATION : CFR 47 , Part 15 Subpart B , **Class B**

TEST SITE : PEP Testing Laboratory

TEST ENGINEER : MICHAEL WANG

TEST DATE : 05-28-2001

ISSUED DATE : JUN. / 04 / 2001

REPORT No. : E900335

VERIFICATION**WE HEREBY VERIFY THAT:**

The E. U. T. listed below has completed RFI testing by PEP Testing Laboratory and the interference emissions can pass **FCC Class B** limitations .

The tested configurations and the facility complies with the radiated and AC line conducted test site criteria in ANSI C63 . 4 - 1992 .

Any data in this RFI report is “ **reference** ” only .

APPLICANT : YUEHUA ELECTRONICS CO., LTD. *

PRODUCT : 27MHz RF Wireless Mouse *

FCC ID : NH3ASRMS001 *

MODEL : ASRMS001 *



M. Y. TSUI / President

PEP Testing Laboratory

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1. GENERAL

1.1 GENERAL INFORMATION:

APPLICANT : YUEHUA ELECTRONICS CO., LTD.

BUILDING 30, CHUIZHU INDUSTRIAL
DISTRICT, QIANSHAN TOWN, ZHUHAI,
GUANGDONG, CHINA

MANUFACTURER : YUEHUA ELECTRONICS CO., LTD.

BUILDING 30, CHUIZHU INDUSTRIAL
DISTRICT, QIANSHAN TOWN, ZHUHAI,
GUANGDONG, CHINA

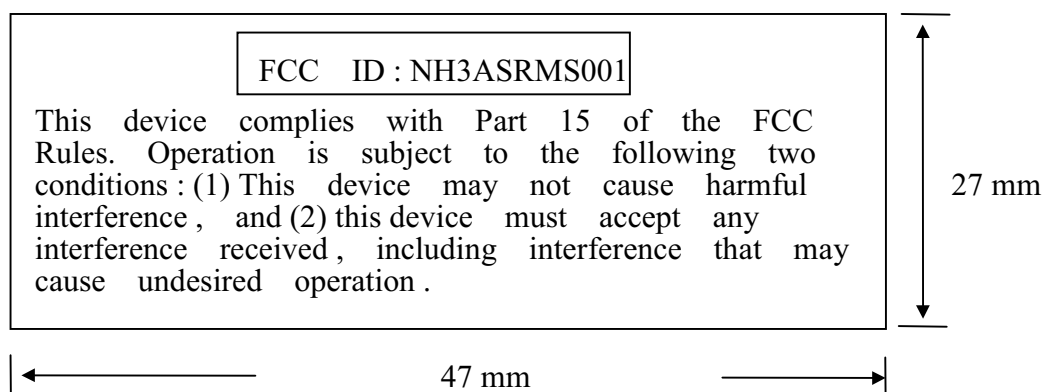
MEASUREMENT PROCEDURE : ANSI C63 , 4 - 1992

TESTED FOR COMPLIANCE WITH : Title 47 of CFR
Part 15 , Subpart B , Class B

1.2 PLACE OF MEASUREMENT PEP Testing Laboratory

1.3 LABELING REQUIREMENT

A FCC ID label shall be permanently attached and conspicuously located on the equipment :



1.4 INFORMATION TO THE USER

The following FCC statement should be declared in a conspicuous location in the user's manual.

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

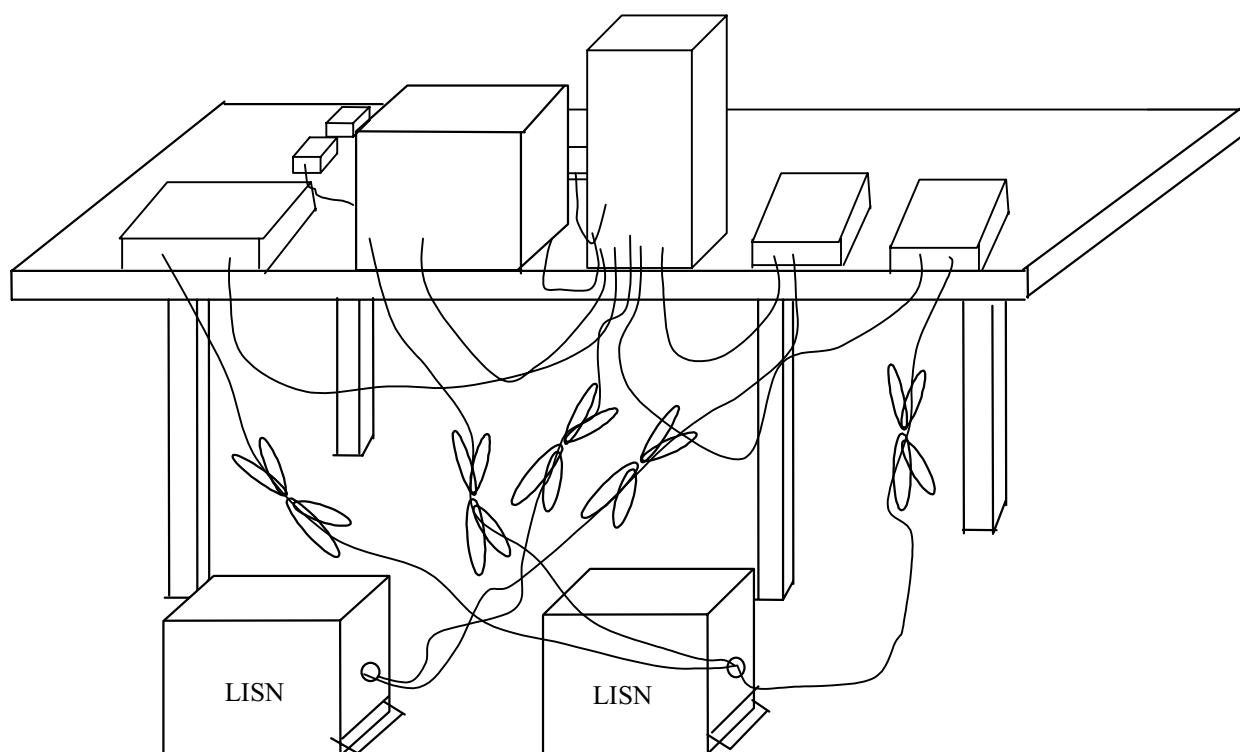
Warning : A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.

Use only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

2. CONDUCTION EMISSIONS TEST

2.1 GENERAL SETUP OF THE TEST FACILITIES



2.2 TEST PROCEDURES

The system was setup as described above , with the EMI diagnostic software .

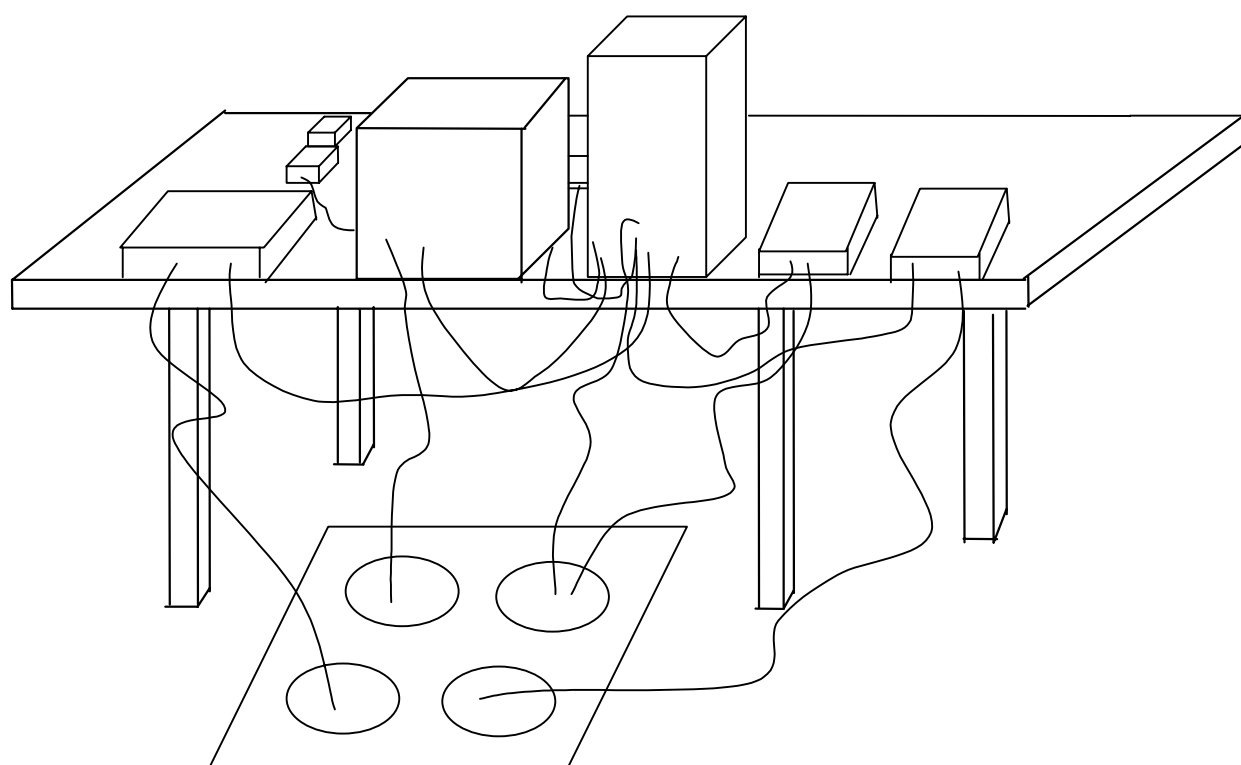
Both the line of power cord , hot and neutral , were run with the EMI tests software .

To get the maximum power line conducted emission , we changed the configuration by varying the monitor power cord fed from floor outlet and from the outlet on the power supply of this computer .

The highest emissions were recorded in the RFI test report .

3. RADIATED EMISSIONS TEST

3.1 GENERAL SETUP OF THE FACILITIES



3.2 TEST PROCEDURES

Radiated emissions test was carried out by **PEP Testing Laboratory** at the open field test site authorized by FCC .

The EUT and supporting equipments were setup with the EMI diagnostic software .

- a. setting up the EUT under normally position , and scanning it from 30 MHz to 1000 MHz , then recording those narrow band noises which cannot be 6 dBuV below lower bound . Both horizontal and vertical antenna are measured from 1 meter height to 4.0 meter height , and turntable rotate 360 degrees .
- b. fixing the EUT rear face to antenna and antenna 1.0 meter height . We adjusted I/O cables to find the highest coupling noise and moved the height of antenna from 1 to 4 meters , then rotated the turntable simultaneously .
- c. checking following step b. all points which were recorded in step a.
- d. changing the peripherals position , and routine steps a. b. c.

The highest emissions were recorded in the RFI test report .

4. DESCRIPTION FOR EUT TESTING CONFIGURATION

**** TEST PROCEDURE ----**

(A) The application equipment is RF Wireless Mouse, FCC ID: NH3ASRMS001, the components of EUT are one remote mouse transmitter and one receiver connected to PC with PS/2 interface, the transmitting frequencies are two channels available 27.01MHz and 27.25MHz, operation temperature 0 ~ 50°C. The specification detail description listed as following table:

Parameter	Description
1. Hardware resolution	800dpi
2. Channel	2 channels
3. Operation frequency	27.01 and 27.25MHz
4. Operation range	One meter minimum
5. Operation temperature	0 ~ 50°C
6. Storage temperature	-10 ~ 60°C
7. Power Consumption of RF module	Transmitter<6mA, Receiver<12mA
8. Power Consumption of controller	Working: 1.5V, Waiting: 7~10mA
9. Controller power saving mode	4 stages for power saving mode: 5 sec without any operation, the mouse will go into power saving mode at 1.5mA power consumption. 0.5mA for 90 sec, 0.2mA for 600 sec and 50μA in sleeping mode.
10. Battery	One AAA battery for 3 months usage

(B) One PC system and EUT were setup on turntable, the receiver of EUT connected to PC with PS/2 interface, the transmitter mouse was also located on turntable due to its transmitting limit is within 3m. Concern of the power source of the transmitter is one DC 1.5V battery, the conducted emission test only tested with receiver. We tested radiated emission with three modes: “transmitter on”, “transmitter off”, and “receiver only” in two channels (27.01MHz and 27.25MHz). The worst case testing data was recorded and provided in this report.

5. SUPPORTING DEVICES TO TEST

- | | |
|-----------------------------------|---|
| 1. Personal Computer (PC1) | CPU : Intel PIII 600 MHz
FCC ID : Declaration of Conformity(DoC)
Manufacturer : ASUS INC.
Model Number : P2-99
Power Supply : Switching
Power Cord : Non-Shielded, Detachable, 1.8m
Data Cable : 1 > Shielded , Detachable,1.2m
2 > Back Shell : Metal |
| 2. Keyboard (KBS1 PS/2) | FCC ID : E5XKB5121WTH0110
Manufacturer : BTC
Model Number : 5121W
Power Supply : +5Vdc from PS2 of PC
Power Cord : N/A
Data Cable : 1 > Shielded , Non-detachable,1.6m
2 > Back Shell : Metal |
| 3. Monitor (MON1 15") | FCC ID : Declaration of Conformity(DoC)
Manufacturer : SAMSUNG
Model Number : 550S
Power Supply : Switching
Power Cord : Non-Shielded, Detachable, 1.8m
Data Cable : 1 > Shielded , Non-detachable,1.2m
2 > Back Shell : Metal |
| 4. Printer (PRN1) | FCC ID : B94C2642X
Manufacturer : Hewlett-Packard
Model Number : C2642E
Power Supply : Linear, 30Vdc O/P
Power Cable : Non-Shielded , Detachable,1.8m
Data Cable : 1 > Shielded , Detachable,1.2m
2 > Back Shell : Metal |

5. Modem (MOD1) × 2**FCC ID : IFAXDM1414****Manufacturer : ACEEX****Model Number : 1414****Power Supply : Linear, 9Vac O/P****Power Cable : Non-Shielded , Detachable,1.7****Data Cable : 1 > Shielded , Detachable,1m****2 > Back Shell : Metal****EQUIPMENT UNDER TEST - - - - 27MHz RF Wireless Mouse****Manufacturer : YUEHUA ELECTRONICS CO., LTD.****Model Number : ASRMS001****Data Cable : N/A****FCC ID : NH3ASRMS001**

6. TEST CONFIGURATION

Radiated emission detector function :

(1) 30MHZ~1GHZ : Quasi-Peak Value

Resolution BW : 120KHZ Video BW : 300KHZ

(2) above 1GHZ : Quasi-Peak value and Average Value

Resolution BW : 1MHZ Video BW : 1MHZ

*** either Q. P. or average value will be recorded
in the report**

Conducted emission detector function :

(1) 450KHZ~30MHZ : Quasi-Peak Value

Resolution BW : 9KHZ Video BW : 30KHZ

The else descriptions : both PC systems were enabled by “ H “ characters pattern .

Conducted Emission Test Photo. : Page 15

Test Data : Hot 16

Neutral 17

Radiated Emission Test Photo. : Page 18 , 19

Test Data : Horizontal 20 , 22 , 24 , 26 , 28 , 30

Vertical 21 , 23 , 25 , 27 , 29 , 31

CONDUCTED TEST CONFIGURATION PHOTO.

Receiver

< FRONT VIEW >



CONDUCTED EMISSIONS TEST DATA**Note : HOT LINE TEST**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
9.345	33.26	-14.74	48.00	32.20	0.20	0.77	-10.00
10.911	24.76	-20.24	48.00	26.59	0.37	0.80	-10.00
22.642	35.73	-12.27	48.00	34.00	0.80	0.92	-10.00
24.799	30.80	-17.20	48.00	29.01	0.89	0.90	-10.00
27.429	55.02	7.02	48.00	53.20	0.90	0.90	-10.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

CONDUCTED EMISSIONS TEST DATA**Note : NEUTRAL LINE TEST**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
9.345	33.36	-14.64	48.00	32.40	0.19	0.77	-10.00
10.970	27.25	-20.75	48.00	26.20	0.25	0.80	-10.00
22.642	34.33	-13.67	48.00	32.80	0.61	0.92	-10.00
25.183	29.40	-18.60	48.00	27.80	0.70	0.90	-10.00
26.247	29.60	-18.40	48.00	28.00	0.70	0.90	-10.00
27.370	53.82	5.82	48.00	52.20	0.70	0.92	-10.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED TEST CONFIGURATION PHOTO.

Transmitter

< FRONT VIEW >



< REAR VIEW >



Receiver
< FRONT VIEW >



< REAR VIEW >



RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;****TX ON (27.01MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
60.314	21.35	-18.65	40.00	35.95	4.99	0.60	20.19
120.302	27.59	-15.91	43.50	34.67	11.50	1.39	19.97
132.228	26.74	-16.76	43.50	34.25	11.09	1.40	20.00
138.142	24.09	-19.41	43.50	31.87	10.68	1.48	19.94
168.021	27.49	-16.01	43.50	36.15	9.20	1.96	19.82
216.826	25.20	-20.80	46.00	34.57	8.28	2.23	19.88
240.028	24.34	-21.66	46.00	30.18	10.90	2.66	19.40
366.633	31.81	-14.19	46.00	33.40	14.63	3.68	19.90
498.161	33.53	-12.47	46.00	31.51	17.32	5.09	20.39
699.630	35.59	-10.41	46.00	28.91	19.20	7.47	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : VERTICAL ; Test distance : 3 m ;****TX ON (27.01MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
60.313	18.14	-21.86	40.00	32.74	4.99	0.60	20.19
120.302	25.98	-17.52	43.50	33.06	11.50	1.39	19.97
132.226	29.21	-14.29	43.50	36.72	11.09	1.40	20.00
138.199	22.47	-21.03	43.50	30.25	10.68	1.48	19.94
168.020	25.35	-18.15	43.50	34.01	9.20	1.96	19.82
216.826	23.09	-22.91	46.00	32.46	8.28	2.23	19.88
240.027	25.12	-20.88	46.00	30.96	10.90	2.66	19.40
366.633	29.49	-16.51	46.00	31.08	14.63	3.68	19.90
498.153	32.18	-13.82	46.00	30.16	17.32	5.09	20.39
699.630	34.25	-11.75	46.00	27.57	19.20	7.48	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;****TX OFF (27.01MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
46.896	26.78	-13.22	40.00	38.06	8.56	0.24	20.08
59.300	29.62	-10.38	40.00	44.08	5.14	0.57	20.17
120.360	27.03	-16.47	43.50	34.11	11.50	1.39	19.97
138.193	29.35	-14.15	43.50	37.13	10.68	1.48	19.94
168.021	26.42	-17.08	43.50	35.08	9.20	1.96	19.82
219.826	30.31	-15.69	46.00	39.68	8.28	2.23	19.88
240.126	25.32	-20.68	46.00	31.16	10.90	2.66	19.40
365.259	28.34	-17.66	46.00	29.93	14.63	3.68	19.90
499.236	26.83	-19.17	46.00	24.81	17.32	5.09	20.39
699.626	36.55	- 9.45	46.00	29.87	19.20	7.48	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : VERTICAL ; Test distance : 3 m ;****TX OFF (27.01MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
47.900	23.78	-16.22	40.00	35.06	8.26	0.24	20.08
59.300	22.62	-17.38	40.00	37.08	5.14	0.57	20.17
120.295	26.03	-17.47	43.50	33.11	11.50	1.39	19.97
138.193	23.35	-20.15	43.50	31.13	10.68	1.48	19.94
168.021	26.42	-17.08	43.50	35.08	9.20	1.96	19.82
216.826	26.31	-19.69	46.00	35.68	8.28	2.23	19.88
240.029	26.32	-19.68	46.00	32.16	10.90	2.66	19.40
366.637	22.34	-23.66	46.00	23.93	14.63	3.68	19.40
498.157	25.83	-20.17	46.00	23.81	17.32	5.09	20.39
699.626	26.55	- 9.45	46.00	29.87	19.20	7.48	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Receiver****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;****TX OFF (27.01MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
47.899	30.53	- 9.47	40.00	41.81	8.56	0.24	20.08
59.300	27.79	-12.21	40.00	42.25	5.14	0.57	20.17
121.300	26.24	-17.26	43.50	33.26	11.50	1.38	19.90
138.191	29.61	-13.89	43.50	37.39	10.68	1.48	19.94
168.018	26.85	-16.65	43.50	35.51	9.20	1.96	19.82
214.100	28.00	-15.50	43.50	37.69	8.03	2.21	19.93
240.027	28.98	-17.02	46.00	34.82	10.90	2.66	19.40
498.154	30.12	-15.88	46.00	28.10	17.32	5.09	20.39
699.632	34.50	-11.50	46.00	27.82	19.20	7.48	20.00
906.745	34.57	-11.43	46.00	24.63	20.60	8.66	19.32

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Receiver****Antenna polarization : VERTICAL ; Test distance : 3 m ;****TX OFF (27.01MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
47.569	27.53	-12.47	40.00	38.77	8.61	0.24	20.09
59.300	24.79	-15.21	40.00	39.25	5.14	0.57	20.17
120.599	28.24	-15.26	43.50	35.26	11.50	1.38	19.90
138.257	26.61	-16.89	43.50	34.38	10.69	1.48	19.94
168.018	29.85	-13.65	43.50	38.53	9.20	1.95	19.83
214.326	22.00	-21.50	43.50	31.69	8.03	2.21	19.93
240.027	26.98	-19.02	46.00	32.82	10.90	2.66	19.40
498.136	28.12	-17.88	46.00	543.41	-500.00	5.08	20.37
699.632	32.50	-13.50	46.00	545.00	-500.00	7.50	20.00
906.745	35.57	-10.43	46.00	546.23	-500.00	8.67	19.33

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;****TX ON (27.25MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
60.314	26.35	-13.65	40.00	40.95	4.99	0.60	20.19
120.302	25.59	-17.91	43.50	32.67	11.50	1.39	19.97
132.228	28.74	-14.76	43.50	36.25	11.09	1.40	20.00
138.142	26.09	-17.41	43.50	33.87	10.68	1.48	19.94
168.021	25.49	-18.01	43.50	34.15	9.20	1.96	19.82
216.826	28.20	-17.80	46.00	37.57	8.28	2.23	19.88
240.028	27.37	-18.66	46.00	33.18	10.90	2.66	19.40
366.633	28.81	-17.19	46.00	30.40	14.63	3.68	19.90
498.161	31.53	-14.47	46.00	29.51	17.32	5.09	20.39
699.630	33.59	-12.41	46.00	26.91	19.20	7.48	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : VERTICAL ; Test distance : 3 m ;****TX ON (27.25MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
60.313	24.14	-15.86	40.00	38.74	4.99	0.60	20.19
120.302	23.98	-19.52	43.50	31.06	11.50	1.39	19.97
132.226	27.21	-16.29	43.50	34.72	11.09	1.40	20.00
138.199	26.47	-17.03	43.50	34.25	10.68	1.48	19.94
168.020	23.35	-20.15	43.50	32.01	9.20	1.96	19.82
216.826	27.09	-18.91	46.00	36.46	8.28	2.23	19.88
240.027	24.12	-21.88	46.00	29.96	10.90	2.66	19.40
366.633	31.49	-14.51	46.00	33.08	14.63	3.68	19.90
498.153	29.18	-16.82	46.00	27.16	17.32	5.09	20.39
699.630	31.25	-14.75	46.00	24.57	19.20	7.48	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;****TX OFF (27.25MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
47.900	23.78	-16.22	40.00	35.06	8.56	0.24	20.08
59.300	22.62	-17.38	40.00	37.08	5.14	0.57	20.17
120.295	26.03	-17.47	43.50	33.11	11.50	1.39	19.97
138.193	23.35	-20.15	43.50	31.13	10.68	1.48	19.94
168.021	26.42	-17.08	43.50	35.08	9.20	1.96	19.82
216.826	26.31	-19.69	46.00	35.68	8.28	2.23	19.88
240.029	26.32	-19.68	46.00	32.16	10.90	2.66	19.40
366.637	22.34	-23.66	46.00	23.93	14.63	3.68	19.90
498.157	25.83	-20.17	46.00	23.81	17.32	5.09	20.39
699.626	36.55	- 9.45	46.00	29.87	19.20	7.48	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Transmitter****Antenna polarization : VERTICAL ; Test distance : 3 m ;****TX OFF (27.25MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
47.860	27.78	-12.22	40.00	547.63	-500.00	0.24	20.09
59.300	26.62	-13.38	40.00	546.22	-500.00	0.57	20.17
120.326	25.03	-18.47	43.50	543.61	-500.00	1.39	19.97
138.193	28.35	-15.15	43.50	546.81	-500.00	1.48	19.94
168.021	25.42	-18.08	43.50	543.30	-500.00	1.95	19.83
216.787	28.31	-17.69	46.00	543.94	-500.00	2.24	19.87
240.029	24.32	-21.68	46.00	541.06	-500.00	2.66	19.40
366.637	30.34	-15.66	46.00	31.96	14.61	3.67	19.90
498.150	27.83	-18.17	46.00	25.79	17.33	5.08	20.37
699.626	33.55	-12.45	46.00	26.86	19.19	7.50	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Receiver****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;****TX OFF (27.25MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
47.899	30.53	- 9.47	40.00	41.81	8.56	0.24	20.08
59.300	28.79	-11.21	40.00	43.25	5.14	0.57	20.17
121.300	26.24	-17.26	43.50	33.26	11.50	1.38	19.90
138.191	28.61	-14.89	43.50	36.39	10.68	1.48	16.94
168.018	31.85	-11.65	43.50	40.51	9.20	1.96	19.82
214.110	27.00	-16.50	43.50	36.69	8.03	2.21	19.93
240.027	25.98	-20.02	46.00	31.82	10.90	2.66	19.40
498.154	31.12	-14.88	46.00	29.10	17.32	5.09	20.39
699.632	29.50	-16.50	46.00	22.82	19.20	7.48	20.00
906.745	30.57	-15.43	46.00	30.63	20.60	8.66	19.32

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

RADIATED EMISSIONS TEST DATA**Receiver****Antenna polarization : VERTICAL ; Test distance : 3 m ;****TX OFF (27.25MHz)**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
47.899	23.53	-16.47	40.00	34.77	8.61	0.24	20.09
59.270	27.79	-12.21	40.00	42.25	5.14	0.57	20.17
121.300	25.24	-18.26	43.50	32.26	11.50	1.38	19.90
137.959	24.61	-18.89	43.50	32.38	10.69	1.48	19.94
168.130	25.85	-17.65	43.50	34.53	9.20	1.95	19.83
214.110	29.00	-14.50	43.50	38.69	8.03	2.21	19.93
240.027	23.98	-22.02	46.00	29.82	10.90	2.66	19.40
498.154	26.12	-19.88	46.00	541.41	-500.00	5.08	20.37
698.266	28.50	-17.50	46.00	541.00	-500.00	7.50	20.00
906.745	35.57	-10.43	46.00	546.23	-500.00	8.67	19.33

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

APPENDIX A.
PHOTOS OF EUT APPEARANCE
<EUT FRONT VIEW>



<EUT REAR VIEW>



APPENDIX B.
List of Test Equipment

Emission	Instrument	Model No.	Serial No.	Next Cal. Date	Cal. Interval
Conduction (No.1)	R & S Receiver	ESHS10	830223/008	Nov. 14, 2001	1Year
	Rolf Heine LISN	NNB-4/63TL	98008	Aug. 28, 2001	1Year
	R & S LISN	ESH3-Z5	844982/039	Jul. 30, 2001	1Year
	Spectrum Analyzer	R3261A	91720076	Apr. 24, 2002	1Year
	RF Cable	Rg400	N/A	Apr. 10, 2002	1Year
Radiation (O.P 1)	R & S Receiver	ESVS30	863342/012	Apr. 17, 2002	1Year
	Anritsu Pre-Amp.	MH648A	M15080	Apr. 10, 2002	1Year
	R & S Pre-Amp.	ESMI-Z7	612278/011	Jun. 01, 2002	1Year
	Schaffner Antenna	CBL6112B	2655	Jun. 01, 2002	1Year
	COM-Power Horn Ant.	AH-118	10056	Aug. 24, 2001	1Year
	EMCO RF Clable	175series	NO. 1	Apr. 15, 2002	1Year
	EMCO Dipole Ant	3121C	9202-813	Sep.06, 2001	3Year
	R &S Signal Generator	SMY01	841104/037	Aug. 26, 2001	1Year