

EMI TESTING REPORT

EUT : _____ PC SYSTEM _____

MODEL: _____ APRI-76 _____

FCCID: _____ F825K4APRI76 _____

PREPARED FOR:

_____ DTK COMPUTER INC. _____

_____ 770 EPPERSON DRIVE _____

_____ CIDDY OF INDUSTRY, CA 91748, _____

_____ U.S.A. _____

PREPARED BY:

SPECTRUM RESEARCH & TESTING
LABORATORY INC.

NO. 101-10, LING 8, SHAN-TONG LI
CHUNG-LI CITY, TAOYUAN, TAIWAN, R.O.C.

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TABLE OF CONTENTS

1. TEST REPORT CERTIFICATION.....4

2. TEST STATEMENT

 2.1 TEST STATEMENT.....5

 2.2 DEPARTURE FROM DOCUMENT POLICIES,
 PROCEDURE OR SPECIFICATIONS.....6

3. EUT MODIFICATIONS.....7

4. MODIFICATION LETTER.....8

5. CONDUCTED POWER LINE TEST

 5.1 TEST EQUIPMENT.....9

 5.2 TEST PROCEDURE.....10-11

 5.3 EUT OPERATING CONDITION.....12

 5.4 TEST PROCEDURE.....13

 5.5 TEST SETUP.....14

 5.6 RADIATED EMISSION LIMIT.....15

 5.7 CONDUCTED POWER LINE TEST RESULT.....16-17

6. RADIATED EMISSION TEST

 6.1 TEST EQUIPMENT.....18

 6.2 CONFIGURATION OF THE EUT.....19

 6.3 EUT OPERATING CONDITION.....19

 6.4 TEST PROCEDURE.....19

 6.5 TEST SETUP.....20-21

 6.6 RADIATED EMISSION LIMIT.....22

 6.7 RADIATED EMISSION TEST RESULT.....23-24

7. PHOTOS OF TESTING.....25-41

1. TEST REPORT CERTIFICATION

APPLICANT : DTK COMPUTER INC.

ADDRESS : 770 EPPERSON DRIVE
CIDY OF INDUSTRY, CA 91748,
U.S.A.

EUT DESCRIPTION : PC SYSTEM

(A) POWER SUPPLY : 115/230V

(B) MODEL : APRI-76

(C) FCC ID : F825K4APRI76

FINAL TEST DATE : 12/18/1997

MEASUREMENT PROCEDURE USED :

PART 15 SUB PART B OF FCC RULES AND
REGULATIONS (47 CFR PART 15)
FCC / ANSI C63.4 - 1992

WE HEREBY SHOW THAT:

THE MEASUREMENTS SHOWN IN THE ATTACHMENT 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 : *super auth* DATE *12/18/97*

SUPERVISOR : *[Signature]* DATE *12/18/97*

APPROVED BY : *[Signature]* DATE *12/18/97*

2. TEST STATEMENT

2.1 TEST STATEMENT

TO whom it may concern,

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

CPU: PENTIUM - 233 MHz	CPU Clock Signal: 66 MHz
CPU: PENTIUM - 266 MHz	CPU Clock Signal: 66 MHz
CPU: PENTIUM - 300 MHz	CPU Clock Signal: 66 MHz

The data shown in this report reflects the worst-case data for each condition as listed above.

Please disregard any other conditions that shown in this user manual.

2. TEST STATEMENT

2.2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS

DID HAVE
ANY DEPARTURE FROM DOCUMENT POLICIES
& PROCEDURES OR FROM SPECIFICATIONS.

YES _____ , NO N/A .

IF YES, THE DESCRIPTION AS BELOW.

2.3 TEST STATEMENT

1. THE CERTIFICATE OR REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY.
2. THE REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

3. EUT MODIFICATIONS

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING:

- 1).ADDED ONE GROUND WIRE FROM COM1, COM2 AND LPT CONTACT TO LOGIC GROUND.
- 2).ADDED ONE GROUND WIRE FROM KEYBOARD AND MOUSE CONTACT TO LOGIC GROUND.
- 3).SHORTED L12.
- 4).ADDED 220PF CAPS FROM COM1 AND COM2 PIN 1 TO 9 TO GROUND. GROUND.
- 5).ADDED 27PF CAPS FROM RS1 PIN 5 AND PIN 8 TO GROUND.
- 6).ADDED 27PF CAPS FROM RS3 PIN 5, 6 AND PIN 8 TO GROUND.
- 7).ADDED BEADS(30 OHM AT 100MHz) AND 15PF CAPS FROM RS7 PIN 5 AND PIN 6 SERIES TO GROUND.
- 8).ADDED 27PF CAPS FROM POWER GOOD TO GROUND.
- 9).ADDED BEAD(400 OHM AT 100MHz) FROM DC50 AND DC51 SERIES TO GROUND.
- 10).ADDED 27PF CAP FROM RS5 PIN 5 TO GROUND.
- 11).ADDED 27pf CAP FROM RS4 PIN 5, 7 AND PIN 8 TO GROUND.
- 12).ADDED 4 OHM SERIES ON L13 AND L14 LOCATION.
- 13).ADDED 27PF CAPS FROM RS2 PIN 5, 7 AND PIN 8 TO GROUND.
- 14).IMPROVED BACK METEL PAD OF I/O PORTS TO CONTACT CHASSIS GROUND.
- 15).ADDED ONE CORE AT POWER SUPPLY CONNECTOR.

4. MODIFICATION LETTER

THIS SECTION CONTAINS THE FOLLOWING DOCUMENTS:

A. LETTER OF MODIFICATIONS



DTK Computer Inc.

Paris • Tokyo • Taipei • Miami • Vienna • Chicago • Houston • San Jose • New York • Dusseldorf • Hong Kong • Washington • Los Angeles

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Dear Sir/Madam:

This is to serve as proper notice that our company agrees to make all modifications to FCC ID [redacted] listed in section 3.0 of the test report submitted by Spectrum Research and Testing Laboratory, Inc.

Respectfully,

A handwritten signature in black ink, appearing to read 'Harvey Liu', written over a horizontal line.

Harvey Liu
Managing Director

Date: 1-1-98 TO 1-1-99

5. CONDUCTED POWER LINE TEST

5.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE
CONDUCTED POWER LINE TEST :

EQUIPMENT/ FACILITIES	SPECIFICAT -IONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL.CENTER	DUE DATE
SPECTRUM ANALZER	9 KHz TO 1 GHz	HP	8590L/ 3624A01317	OCT, 1997 ETC	1Y
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 893517/013	OCT, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951315	AUGUST, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951318	AUGUST, 1997 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MAY, 1997 ETC	1Y
POWER CONVERTER	0 TO 300 VAC 47 - 500 Hz	AFC	AFC-1KW/ 850510	APRIL, 1997 SRT	1Y

5.2 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.

-EUT

DEVICE	MANUFACTURER	MODEL #	FCCID
PC SYSTEM	DTK COMPUTER INC.	APRI-76	F825K4APRI76

-REMARK

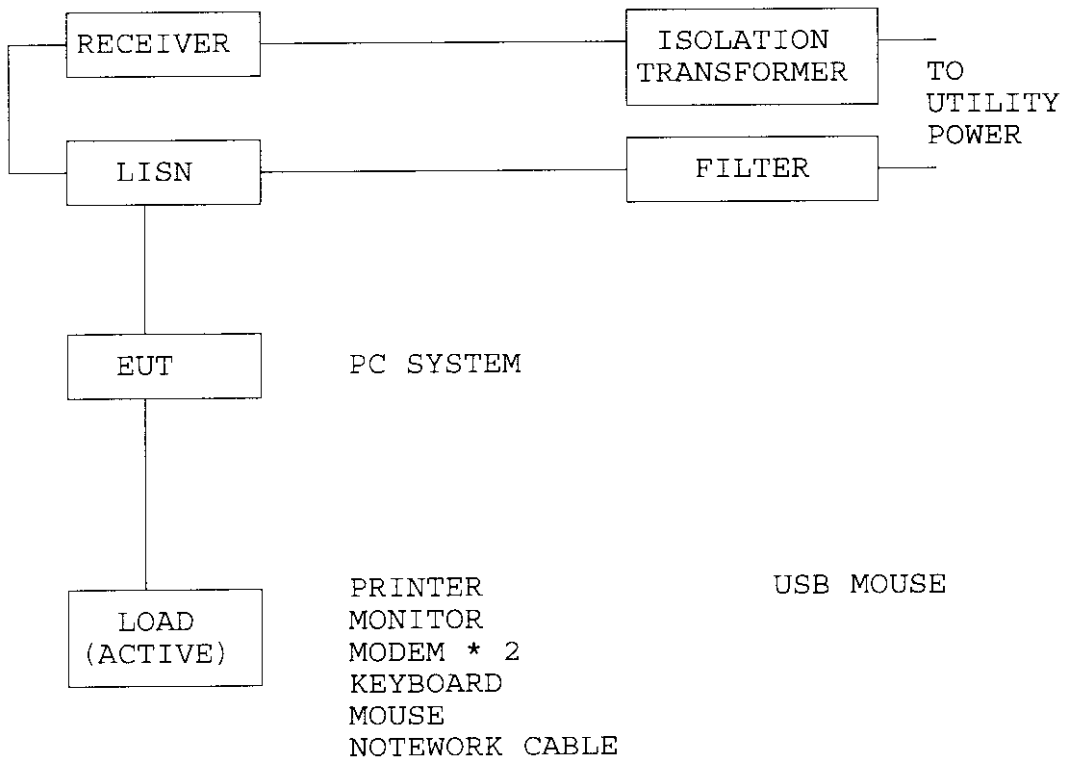
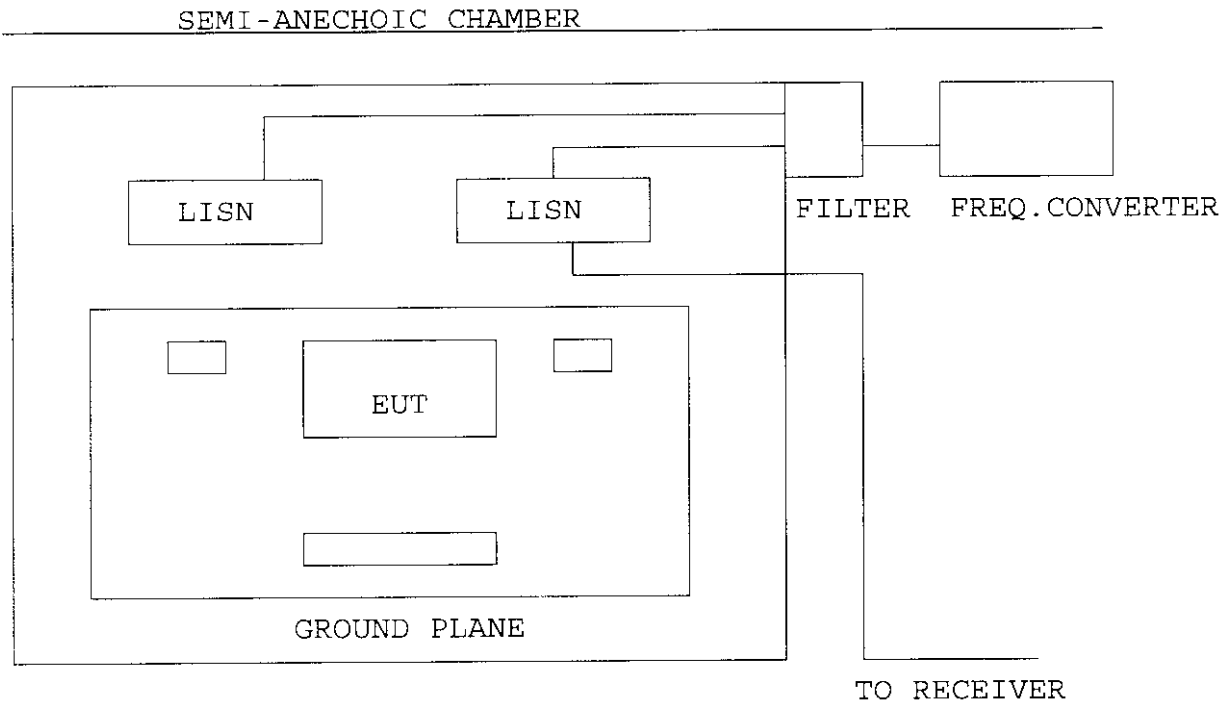
-INTERNAL DEVICES

<u>DEVICE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>	<u>FCCID</u>
MAIN BOARD	DTK	PRM-0076I	N/A
POWER SUPPLY	DTK	PTP-3018	N/A
HDD	QUANTUM	60108C2	N/A
FDD (3.5")	TEAC	FD-235HF	N/A
VGA CARD	TAUS	AGP-V3000	N/A

5.4 TEST PROCEDURE

THE EUT WAS TESTED ACCORDING TO ANSI C63.4 - 1992. THE CONDUCTED TEST WAS PERFORMED IN AN ANECHOIC CHAMBER. 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.

5.5 TEST SETUP



5.6 CONDUCTED POWER LINE EMISSION LIMIT

FREQUENCY RANGE (MHz)	CLASS A	CLASS B
0.045 - 1.705	1000 μ V	250 μ V
1.705 - 30	3000 μ V	250 μ V

NOTE : IN THE ABOVE TABLE, THE TIGHTER LIMIT
APPLIES AT THE BAND EDGES.

5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.715	61.0	56.2	250
0.853	59.6	57.5	250
2.220	24.0	22.1	250
6.150	*	48.8	250
9.270	45.2	36.7	250
13.970	22.4	22.9	250
23.920	63.1	59.6	250

- REMARKS : (1) .* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY
 (2) .UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
 (3) .CPU: PENTIUM - 233MHz CLOCK CHIP : 66MHz
 (4) .TEST CONFIGURATION PLEASE SEE 4.2
 (5) .TEST EQUIPMENT PLEASE SEE 4.1
 (6) .ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : *Taylor Smith*

5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.576	70.8	57.5	250
0.846	58.9	56.9	250
1.120	50.1	45.2	250
2.210	24.3	21.4	250
6.120	17.0	27.5	250
10.410	33.9	37.6	250
25.460	61.7	61.0	250

- REMARKS : (1) . * = MEMENT DOES NOT APPLY FOR THIS FREQUENCY
 (2) . UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
 (3) . CPU: PENTIUM - 266MHz CLOCK CHIP : 66MHz
 (4) . TEST CONFIGURATION PLEASE SEE 4.2
 (5) . TEST EQUIPMENT PLEASE SEE 4.1
 (6) . ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : *Jayla out fi*

5.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
42.10	0.80	9.80	26.4	26.2	70.79	69.18	100
136.7	1.40	10.0	26.0	24.8	74.13	64.57	150
470.0	2.60	17.0	17.9	17.1	74.99	68.39	200
502.2	2.70	17.2	19.9	18.0	97.72	77.62	200
539.3	2.90	18.6	20.5	18.5	125.9	100.0	200
607.2	3.00	19.0	18.6	18.5	107.2	105.9	200
672.6	3.30	20.1	17.8	19.5	114.8	139.6	200

- REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU : PENTIUM - 233MHz CLOCK CHIP : 66MHz
- (4). SAMPLE CALCULATION
 $20 \text{ LOG}(\text{EMISSION}) \text{ uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS $<+/-4\text{dB}$
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : Taylor auth

5.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS. THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
42.10	0.8	9.80	27.2	26.5	77.62	71.61	100
97.90	1.2	7.40	25.5	*	50.70	*	150
127.0	1.4	8.10	*	25.6	*	56.89	150
201.1	1.7	9.90	25.4	27.3	70.79	88.10	150
437.4	2.7	16.4	19.8	*	88.10	*	200
502.1	2.7	17.2	20.1	18.6	100.0	84.14	200
539.2	2.9	18.6	21.7	19.1	144.5	107.2	200
672.6	3.3	20.1	18.0	20.5	117.5	156.7	200

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). CPU : PENTIUM - 266MHz CLOCK CHIP : 66MHz

(4). SAMPLE CALCULATION
 $20 \text{ LOG}(\text{EMISSION}) \text{ uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$

(5). TEST EQUIPMENT PLEASE SEE 5.1

(6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS $<+/-4\text{dB}$

(7). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER :

Taylor *auth*

5.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 1 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS. THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
42.1	0.8	9.80	25.5	26.8	68.30	74.13	100
127.1	1.4	8.10	27.0	27.5	66.83	70.19	150
201.2	1.7	9.90	26.2	27.0	77.62	85.11	150
437.4	2.7	16.4	19.7	*	87.09	*	200
502.2	2.7	17.2	20.6	19.1	105.9	89.13	200
539.2	2.9	18.6	18.1	19.5	95.50	112.2	200
607.1	3.0	19.0	17.5	18.3	94.41	103.5	200
672.6	3.3	20.1	18.1	20.9*	118.9	164.1	200

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). CPU : PENTIUM - 300MHz CLOCK CHIP : 66MHz

(4). SAMPLE CALCULATION
 $20 \text{ LOG(EMISSION) uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$

(5). TEST EQUIPMENT PLEASE SEE 5.1

(6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS $\pm 4\text{dB}$

(7). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER :

Taylor ardh

6. RADIATED EMISSION TEST

6.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE RADIATED EMISSION TEST :

EQUIPMENT / FACILITIES	SPECIFICAT - IONS	MANUFACTUR - ER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE
RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS 30/ 841977/003	MARCH, 1997 ITRI	1Y
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	HP	8568B/ 3019A05294	OCT , 1997 ETC	1Y
SPECTRUM ANALYZER	9 KHz TO 22 GHz	HP	8593E/ 3322A00670	OCT, 1997 ETC	1Y
SPECTRUM ANALYZER	100 Hz TO 1000 MHz	IFR	A-7550/ 2684/1248	AUGUST, 1997 ETC	1Y
SPECTRUM ANALYZER	9 KHz TO 2900 MHz	HP	8594A/ 3229A00399	MAY, 1997 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MAY, 1997 ETC	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9003-535	MARCH, 1997 SRT	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9611-1239	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/ 96081-1073	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143/ 9509-1152	DEC, 1997 SRT	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A08402	MARCH, 1997 ETC	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A06412	OCT, 1997 ETC	1Y
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 9012-3619	DEC, 1997 SRT	1Y

6.2 CONFIGURATION OF THE EUT

SAME AS SECTION 5.4 OF THIS REPORT.

6.3 EUT OPERATING CONDITION

SAME AS SECTION 5.3 OF THIS REPORT.

6.4 TEST PROCEDURE

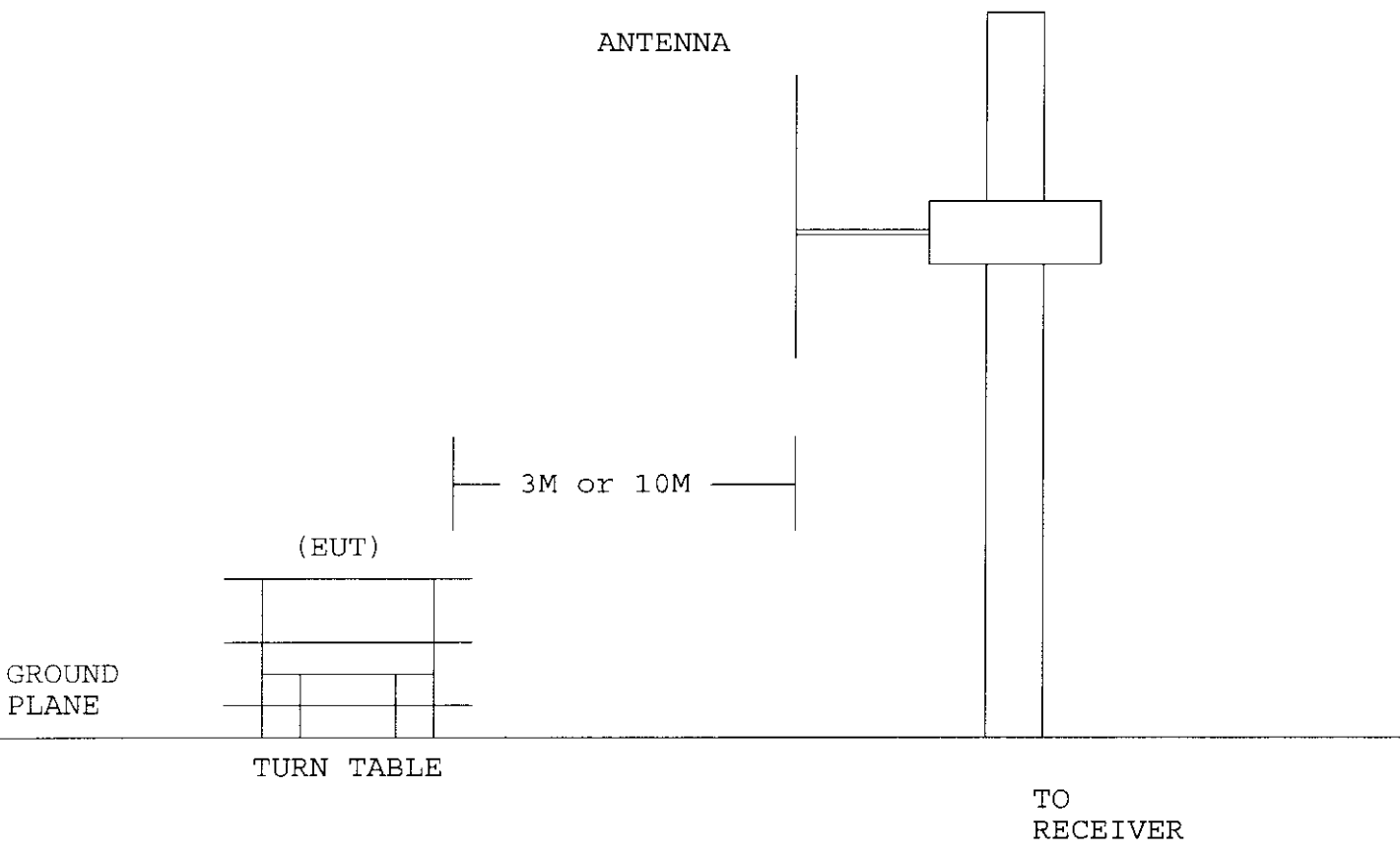
THE EUT WAS TESTED ACCORDING TO ANSI C63.4 - 1992. THE RADIATED TEST WAS PERFORMED AT SRT LAB'S OPEN SITE. THIS SITE IS ON FILE WITH THE FCC LABORATORY DIVISION, REFERENCE 31040/SIT.

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. MEASUREMENTS WERE MADE AT THREE METERS WITH AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXIMUM EMISSION FOR EACH FREQUENCY.

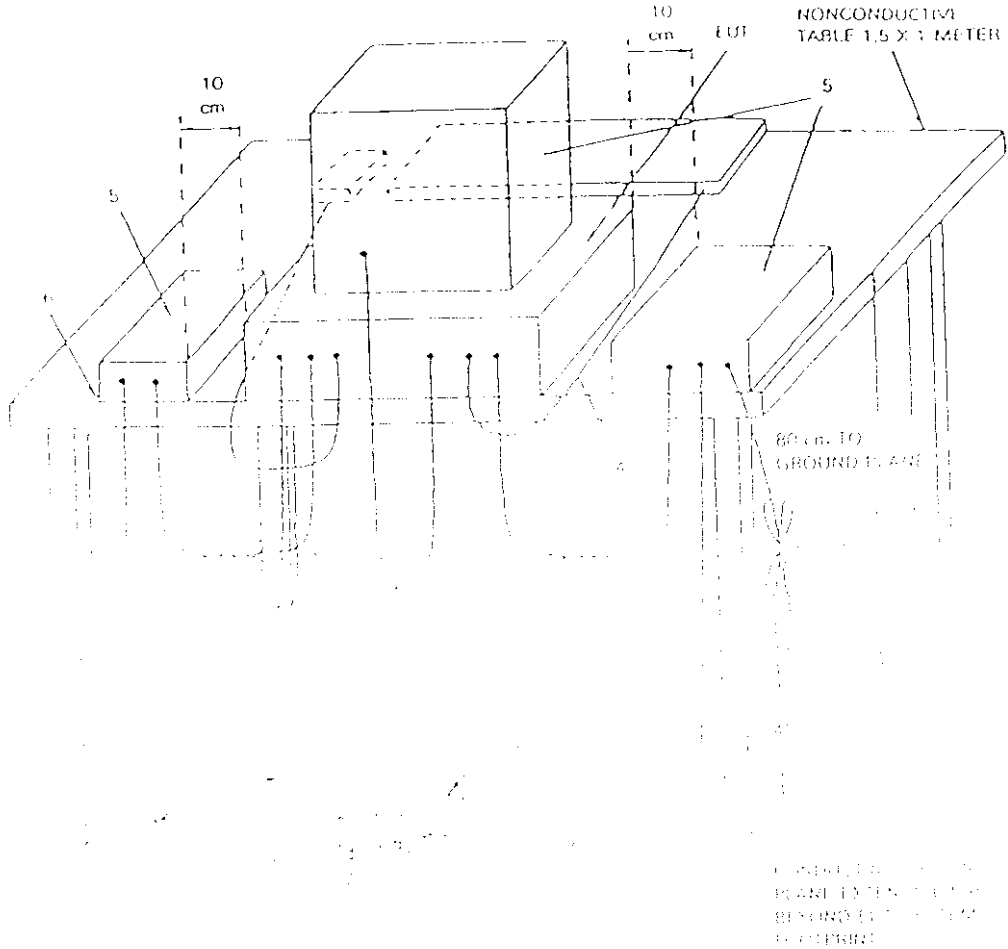
THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. THE MEASUREMENTS UNDER 1 GHz WITH RESOLUTION BANDWIDTH OF 120 KHz ARE QUASI-PEAK READING MADE AT THREE METERS USING AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXIMUM EMISSION FOR EACH FREQUENCY.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF THREE METERS WITH A HORN ANTENNA.

6.5 RADIATED TEST SETUP



6.5 RADIATED TEST SETUP



REMARKS:

1. Interconnecting cables that hang higher than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 3 m.
3. If I/Os are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboard/mouse, shall be placed as close as possible to the equipment.
5. No full computer or EUT system being tested.
6. The rear of all equipment of the system under test shall be against the rear wall of the table.
7. No vertical conductors will exist.
8. Power cords drape to the floor and are routed over to the equipment.

6.6 RADIATED EMISSION LIMIT

ALL EMISSION FROM A DIGITAL DEVICE, INCLUDING ANY NETWORK OF CONDUCTORS AND APPARATUS CONNECTED THERETO, SHALL NOT EXCEED THE LEVEL OF FIELD STRENGTH SPECIFIED BELOW :

CLASS B

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
ABOVE 960	3	500

CLASS B (OPEN CASE)

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	199.5
88 - 216	3	298.5
216 - 960	3	398.1

CLASS A

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	316.3
88 - 216	3	473.2
216 - 960	3	613.0
ABOVE 960	3	1000.0

- NOTE : 1. IN THE EMISSION TABLES ABOVE, THE TIGHTER LIMIT APPLIES AT THE BAND EDGES.
2. DISTANCE REFERS TO THE DISTANCE BETWEEN MEASURING INSTRUMENT, ANTENNA, AND THE CLOSEST POINT OF ANY PART OF THE DEVICE OR SYSTEM.

6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
42.1	0.8	9.8	23.9	24.8	53.10	58.90	100
136.7	1.4	10.0	25.6	*	70.80	*	150
437.4	2.5	16.3	13.8	11.7	42.70	33.50	200
539.3	2.9	18.2	18.0	18.9	90.20	100.0	200
672.6	3.3	20.1	16.7	19.7	101.2	142.9	200
941.8	4.0	22.2	9.90	11.2	63.80	74.10	200

- REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU : PENTIUM - 233MHz CLOCK CHIP : 66MHz
- (4). SAMPLE CALCULATION
 $20 \text{ LOG (EMISSION) } \mu\text{V/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS $\langle +/ - 4\text{dB}$
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER :

Angela Smith

6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
127.0	1.4	8.1	*	26.3	*	61.70	150
403.5	2.2	15.6	15.9	19.9	48.40	76.70	200
539.2	2.9	18.2	21.0	*	127.4	*	200
672.6	3.3	20.1	17.7	21.5	113.5	175.8	200
873.9	3.8	22.1	10.9	12.4	69.20	82.20	200

- REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU : PENTIUM - 266MHz CLOCK CHIP : 66MHz
- (4). SAMPLE CALCULATION
 $20 \text{ LOG}(\text{EMISSION}) \text{ uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS $\langle +/ - 4\text{dB}$
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : _____ *Taylor*

6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
39.7	0.8	9.8	22.4	25.9	44.70	66.80	100
202.2	1.7	9.9	26.1	22.4	76.70	50.10	150
304.0	2.2	14.5	12.6	16.9	29.20	47.90	200
539.3	2.9	18.2	17.9	15.5	89.10	67.60	200
672.6	3.3	20.1	15.4	19.5	87.10	139.6	200
907.8	3.9	22.6	11.4	15.0	78.50	118.9	200

- REMARKS :
- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
 - (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
 - (3). CPU : PENTIUM - 300MHz CLOCK CHIP : 66MHz
 - (4). SAMPLE CALCULATION
 $20 \text{ LOG (EMISSION) uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$
 - (5). TEST EQUIPMENT PLEASE SEE 5.1
 - (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS $\pm 4\text{dB}$
 - (7). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : _____ *Taylor Smith*

- PERIPHERALS

DEVICE	MANUFAC -TURER	MODEL# / SERIAL#	FCCID	CABLE
MONITOR	PHILIPS	14B1320W	A3KM064	POWER-S DATA -S
PRINTER	HP	2225C	BS46XU2225C	POWER-UNS DATA -S
MODEM	SMARTEAM	103/212A	EF56A5103/212A	POWER-UNS DATA -S
MODEM	SMARTEAM	103/212A	EF56A5103/212A	POWER-UNS DATA-S
KEYBOARD	EPSON	N860-4871-T001	C9SKB4870	DATA-S
MOUSE	LOGITECH	M-S34	DZL211029	DATA-S
MOUSE	ABIT	97M32U	M5497M32U	DATA-UNS
CASE	DTK	7200	N/A	DATA-UNS

- REMARK

- (1). CABLE - UNS : UNSHIELDED CABLE
S : SHIELDED CABLE
- (2). CABLES - ALL 1m OR GREATER IN LENGTH-
BUNDLED ACCORDING TO ANSI C63.4 - 1992.

5.3 EUT OPERATING CONDITION

OPERATING CONDITION IS ACCORDING TO ANSI C63.4 - 1992.

1. EUT POWER ON.
2. "H" PATTERN SENT TO THE FOLLOWING PERIPHERALS:
 - PRINTER
 - MONITOR
 - MODEM * 2
3. CPU : PENTIUM - 233MHz
CLOCK CHIP : 66MHz
CPU : PENTIUM - 266MHz
CLOCK CHIP : 66MHz
CPU : PENTIUM - 300MHz
CLOCK CHIP : 66MHz

5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (dBuv)	LINE 2 (dBuv)	LIMIT (dBuv)
0.7	41.3	41.0	48
1.1	40.1	40.1	48
2.2	33.7	33.1	48
4.3	30.2	*	48
28.9	29.5	*	48

- REMARKS : (1) .* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY
 (2) .UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
 (3) .CPU: PENTIUM - 300MHZ CLOCK CHIP : 66MHZ
 (4) .TEST CONFIGURATION PLEASE SEE 4.2
 (5) .TEST EQUIPMENT PLEASE SEE 4.1
 (6) .ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : *[Signature]*

5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (dBuv)	LINE 2 (dBuv)	LIMIT (dBuv)
0.7	40.3	40.2	48
1.1	39.9	39.6	48
2.2	34.9	34.4	48
4.8	29.1	*	48
29.7	30.2	29.9	48

- REMARKS : (1) . * = MEMENT DOES NOT APPLY FOR THIS FREQUENCY
 (2) . UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
 (3) . CPU: PENTIUM - 233MHz CLOCK CHIP : 66MHz
 (4) . TEST CONFIGURATION PLEASE SEE 4.2
 (5) . TEST EQUIPMENT PLEASE SEE 4.1
 (6) . ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : *Taylor Smith*

5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (dBuv)	LINE 2 (dBuv)	LIMIT (dBuv)
0.7	41.1	40.7	48
1.1	40.2	39.9	48
2.2	34.4	33.8	48
4.5	29.2	*	48
30.0	29.3	29.9	48

- REMARKS : (1). * = MEMENT DOES NOT APPLY FOR THIS FREQUENCY
 (2). UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
 (3). CPU: PENTIUM - 266MHz CLOCK CHIP : 66MHz
 (4). TEST CONFIGURATION PLEASE SEE 4.2
 (5). TEST EQUIPMENT PLEASE SEE 4.1
 (6). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER : _____ *[Signature]*