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## VERIFICATION OF EMC COMPLIANCE

Verification No.:

SHEM130700125901TXC

Applicant:

HORIZON TOOL INC

Address of Applicant:

4300 WATERLEAF CT GREENSBORO NC.27410

**Product Description:** 

tester

Model No:

#74

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard:

EN 61326-1:2006, EN 61326-2-2:2006

as shown in the

Test Report Number(s):

SHEM130700125901

This verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and Directive 2004/108/EC. The affixing of the CE marking presumes in addition that the conditions in annexes III and V of the Directive are fulfilled.



Tony Wu E&E Section Manager SGS-CSTC (Shanghai) Co., Ltd.

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Member of SGS Group (Société Générale de Surveillance) Note:You may contact us to validate this document by email address: ee.shanghai@sgs.com



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### 1 Cover Page

# TEST REPORT

Application No.:	SHEM1307001259TX					
Applicant:	HORIZON TOOL INC					
Manufacturer:	INB INTERNATIONAL INC.					
Factory:	Shanghai Youda Electrical Appliance Co., Ltd.					
Product Name:	tester					
Model No.(EUT):	#74					
Standards:	EN 61326-1:2006 EN 61326-2-2:2006					
Date of Receipt:	July 09, 2013					
Date of Test:	July 10, 2013					
Date of Issue:	July 17, 2013					
Test Result:	Pass*					

\* In the configuration tested, the EUT (Equipment under test) complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.



E&E Section Manager

SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system compiles with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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#### 2 Version

Revision Record								
Version	Chapter	Date	Modifier	Remark				
00		July 15, 2013		Original				
		11/						

Authorized for issue by:		
Engineer	Zoe Cang	Zoe Cang
	Print Name	Date: (July 10, 2013)
Clerk	Susie Liu	Suire Lin
	Print Name	Date: (July 15, 2013)
Reviewer	Keny Xu	Kony. Kn
	Print Name	Date: (July 17, 2013)



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## 3 Test Summary

ELECTROMAGNETIC INTERFERENCE (EMI)									
Test	Test Requirement	Test Method	Class / Severity	Result					
Radiated Emission	EN 61326-1:2006	CISPR 11:	Table 5-Group 1	PASS					
(30MHz to 1000MHz)	EN 01320-1.2000	2009+A1:2010	Class B	FASS					
Electromagnetic Susceptibility(EMS)									
Test	Test Requirement	Test Method	Class / Severity	Result					
ESD	EN 61326-2-2:2006	EN 61000-4-2: 2009	Contact: ±2, 4 kV	PASS					
E3D	EN 01320-2-2.2000	EN 61000-4-2. 2009	Air: ±2, 4, 8 kV	PASS					
		EN 61000-4-3:	3V/m(80M to 1GHz)						
Radiated Immunity	EN 61326-1:2006	2006+A1:2008+	3V/m(1.4G to 2GHz)	PASS					
		A2:2010	1V/m(2.0G to2.7GHz)						

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#### 5 General Information

#### 5.1 Client Information

Applicant:

HORIZON TOOL INC

Address of Applicant:

4300 WATERLEAF CT GREENSBORO NC.27410

Manufacturer:

INB INTERNATIONAL INC.

Address of Manufacturer:

room 1710, A building, Iv zhou square no.137, bailan road putou district,

shanghai, china

Factory:

Shanghai Youda Electrical Appliance Co., Ltd.

Address of Factory:

jiasongzhong RD, huaxin town, qingpu district, shanghai

#### 5.2 General Description of E.U.T.

Product Name:

tester

Model No.(EUT):

#74

#### 5.3 Details of E.U.T.

Power Supply:

3\*1.5V "AA" Battery Size DC 4.5V

Cable Type:

N/A

Functions/Modes:

Testing mode

Testing mode:

Keep EUT testing the current.

#### 5.4 Description of Support Units

The EUT has been tested independently.

#### 5.5 Deviation from Standards

All Immunity tests to EN 61326-1 were performed in accordance with the latest version of EN 61000-4-x and not IEC 61000-4-x. (x=2,3).

#### 5.6 Abnormalities from Standard Conditions

None.

#### 5.7 Modification/Retest Record

None.

#### 5.8 Monitoring of EUT for All Immunity Test

Audio:

None.

Visual:

Working status of the EUT.



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#### 5.9 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 5.10 Test Facility

#### CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

#### FCC - Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

#### Industry Canada (IC) - IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

#### VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.



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#### 5.11 Measurement Uncertainty

According to CISPR 16-4-2.

Test Item	Frequency Range	Measurement Uncertainty	U <sub>cispr</sub>
Conducted Emission	9kHz-150kHz	3.2dB	3.8dB
at mains port using AMN	3KI 12-13UKI 12	3.2dD	3.000
Conducted Emission	150kHz-30MHz	2.6dB	3.4dB
at mains port using AMN	130KI 12-30IVII 12	2.000	3,400
Conducted Emission	9kHz-30MHz	3.9dB	2.9dB
at mains port using VP	9KHZ-SUIVIHZ	3.900	2.900
Conducted Emission			
at telecommunication port	150kHz-30MHz	4.5dB	5.0dB
using AAN			
Radiated Emission	30MHz-1000MHz	4.3dB	6.3dB
Dadiated Emission	1GHz-18GHz	4.5dB	5.2dB(1GHz-6GHz)
Radiated Emission	IGHZ-16GHZ	4.00D	5.5dB(6GHz-18GHz)
Disturbance Power	30MHz-300MHz	2.6dB	4.5dB

#### Remark:

AMN - Artificial Mains Network

VP - Voltage Probe

ANN - Asymmetric Artificial Network

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 6 Equipment list

#### **Radiated Emission**

Hadiai	adiated Emission								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date			
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2013-02-23	2014-02-22			
2	Antenna	SCHWARZBE CK	VULB916 8	9168-313	2013-03-07	2014-03-06			
3	CONTROLLER	INNCO	CO200	474	/	/			
4	Antenna	SCHWARZBE CK	BBHA912 0D	9120D-67 9	2013-03-07	2014-03-06			
5	Antenna	SCHWARZBE CK	BBHA917 0	9170-373	2013-03-07	2014-03-06			
6	Low nosie amplifier	LNA6900	TESEQ	71033	2013-02-23	2014-02-22			

**Electrostatic Discharge Test** 

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
	Electrostatic					
1	Discharge	TESEQ	NSG 437	468	2012-08-13	2013-08-12
	Simulator					



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**Radiated Immunity** 

Haylat	adiated initiality							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date		
1	Single Generator	Rohde & Schwarz	SMR40	100555	2013-02-23	2014-02-22		
2	Calibrated Stacked Lagarithmic- Periodic Test- Antenna	SCHWARIBF CK	STLP 9128D	9128 D 055	2012-11-13	2013-11-12		
3	Stacked DoubleLog- Per. Antenna	SCHWARIBF CK	STLP 9149	9149-187	2012-11-13	2013-11-12		
4	Power Amplifiers	MILMEGA	80RF1000- 250	1053058	2012-11-29	2013-11-28		
5	Power Amplifiers	MILMEGA	AS0840-55- 55	1053059	2012-11-23	2013-11-22		
6	Power Meter	Rohde & Schwarz	NRP	101641	2013-02-23	2014-02-22		
7	Electromagn etic Field Probe	ETS-Lindgren	HI-6105	D445 050 S	2012-10-17	2013-10-16		

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Digital pressure meter	YONGZHI	DYM3-01	101012	2012-01-16	2014-01-15
2	Digital Multimeter	FLUKE	17B	10560713	2013-01-07	2014-01-06
3	Temperature& humidity recorder	ShangHai weather meter work	ZJ 1-2B	0804081 0802150 0805177	2012-08-27	2013-08-26

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## 7 Electromagnetic Interference Test Results

#### 7.1 Radiated Emissions, 30MHz to 1GHz

Test Requirement:

EN 61326-1

Test Method:

CISPR 11

Test Date:

July 10, 2013

Test Voltage:

DC 4.5V

Frequency Range:

30 MHz to 1 GHz

Measurement Distance:

3m

Class:

Table 5-Group 1 Class B

Detector:

Peak for pre-scan (120 kHz resolution bandwidth)

Limit:

For 3m

Frequency range	Quasi-peak limits(Class B)		
MHz	dB( μ V/m)		
30 to 230	40		
230 to 1000	47		
onal frequencies, the more stringent limit	shall apply.		

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature:

22.1 °C

Humidity:

52.0% RH

Atmospheric Pressure:

102.3 kPa

Test mode:

Testing mode

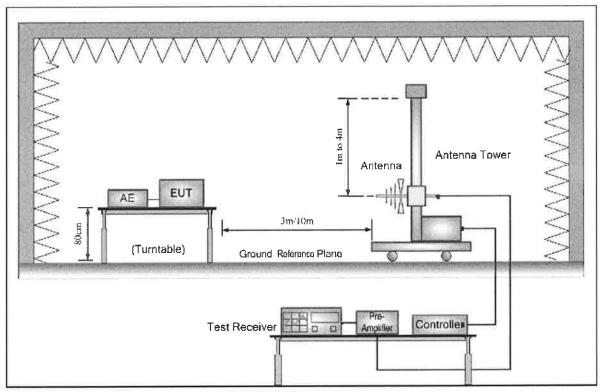
Pre-scan was performed with peak detected on all ports, Quasi-peak measurements were performed at the frequencies at which maximum peak emission level were detected.

Please see the attached Quasi-peak test results.

For radiated emission: Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.

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#### 7.1.2 Test Setup and Procedure



- 1. The radiated emissions test was conducted in a semi-anechoic chamber.
- 2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane.
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum signature data plots of the EUT.
- 5. The frequencies of maximum emission were determined in the final radiated emissions measurement, the physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

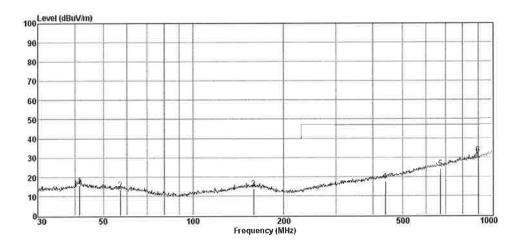


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#### 7.1.3 Measurement Data

Vertical:



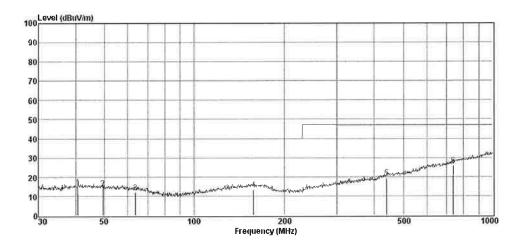
Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	41.51	26.49	13.24	24.70	0.57	15.60	40.00	-24.40	QP
2	56.99	24.93	12.38	24.70	0.71	13.32	40.00	-26.68	QP
3	159.23	24.50	12.61	24.70	1.32	13.73	40.00	-26.27	QP
4	438.66	23.79	15.84	24.40	2.41	17.64	47.00	-29.36	QP
5	671.55	25.07	20.07	24.11	3.05	24.08	47.00	-22.92	QP
6	900.51	28.58	22.91	23.80	3.65	31.34	47.00	-15.66	QP



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#### Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	40.69	25.67	13.27	24.70	0.57	14.81	40.00	-25.19	QP
2	49.34	25.39	12.84	24.70	0.64	14.17	40.00	-25.83	QP
3	63.76	24.28	11.67	24.70	0.76	12.01	40.00	-27.99	QP
4	158.11	24.06	12.62	24.70	1.31	13.29	40.00	-26.71	QP
5	438.66	25.57	15.84	24.40	2.41	19.42	47.00	-27.58	QP
6	737.30	25.41	21.30	24.05	3.28	25.94	47.00	-21.06	QP

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## 8 Electromagnetic Susceptibility Test Results

#### 8.1 Performance Criteria Description in EN 61326-1

Criterion A:	During testing, normal performance within the specification limits.					
Criterion B:	During testing, temporary degradation, or loss of function or performance which is self-recovering.					
Criterion C:	During testing, temporary degradation, or loss of function or performance which requires operator intervention or system reset occurs.					



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#### 8.2 ESD

Test Requirement:

EN 61326-2-2

Test Method:

EN 61000-4-2

Test Date:

July 10, 2013

Power Supply:

DC 4.5V

Discharge Impedance:

330 Ω / 150 pF

Discharge Voltage:

Air Discharge:

8.0 kV

Contact Discharge:

4.0 kV

HCP/VCP:

4.0 kV

Polarity:

Positive & Negative

Number of Discharge:

Minimum 10 times at each test point for Air Discharge;

Minimum 10 times at each test point for Contact or VCP & HCP

Discharge.

Discharge Mode:

Single Discharge

Discharge Period:

1 second minimum

#### 8.2.1 E.U.T. Operation

Operating Environment:

Temperature:

25.6 °C

Humidity: 53.0% RH

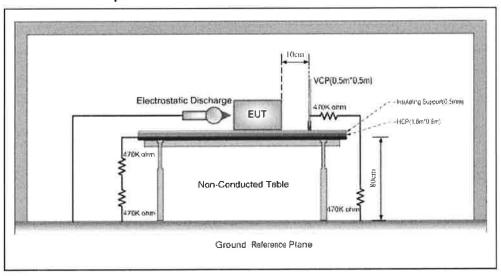
Atmospheric Pressure:

100.7 kPa

Test mode:

Testing mode

#### 8.2.2 Test Setup and Procedure





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- Contact discharge was applied only to conductive surfaces of the EUT. Air discharge was applied only to non-conducted surfaces of the EUT.
- 2. The EUT was put on a 0.8m high wooden table for table-top equipment or 0.1m high for floor standing equipment standing on the ground reference plane (GRP).
- 3. A horizontal coupling plane(HCP) 1.6m by 0.8m in size was placed on the table, and the EUT with its cables were isolated from the HCP by an insulating support thick than 0.5mm. The VCP 0.5m by 0.5m in size while HCP were constructed from the same material type and thickness as that of the GRP, and connected to the GRP via a  $470 \mathrm{k}\Omega$  resistor at each end. The distance between EUT and any of the other metallic surface excepted the GRP, HCP and VCP was greater than 0.8m.
- 4. During the contact discharges, the tip of the discharge electrode was touch the EUT before the discharge switch is operated. During the air discharges, the round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT.
- 5. After each discharge, the ESD generator was removed from the EUT, the generator is then retriggered for a new single discharge. For ungrounded product, a discharge cable with two resistances were used after each discharge to remove remnant electrostatic voltage. A minimum 10 times discharges at each point of each polarity single discharge were applied to HCP and VCP.

#### 8.2.3 Test Results

#### **Direct Application Test Results**

Observations:

Test Point:

- 1. All insulated enclosure & seams.
- 2. All accessible metal parts of the enclosure.

Direct Application	n			Test Results		
Discharge Level Polarity (kV) (+/-)		Test Point	Test Mode	Contact Discharge	Air Discharge	
2.0, 4.0, 8.0	+/-	1	Testing made	N/A	Α	
2.0, 4.0	+/=	2	Testing mode	Α	N/A	

#### **Indirect Application Test Results**

Observations:

Test Point:

All sides.

Indirect Applicati	on			Test Results		
Discharge Level Polarity (kV) (+/-)		Test Point	Test Mode	Horizontal Coupling	Vertical Coupling	
2.0, 4.0	+/-	1	Testing mode	А	А	

#### Results:

A: During test, no degradation in the performance of the EUT was observed; After test, no degradation in the performance of the EUT was observed.

N/A: Not applicable (floor mounted EUT or not requested by Standard).



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#### 8.3 Radiated Immunity

Test Requirement:

EN 61326-1

Test Method:

EN 61000-4-3

Test Date:

July 10, 2013

Power Supply:

DC 4.5V

Frequency Range:

80 MHz to 1 GHz

1.4 GHz to 2 GHz

2 GHz to 2.7 GHz

Antenna Polarization:

Horizontal & Vertical

Test level:

3.0 V/m on enclosure for 80 MHz to 1 GHz

3.0 V/m on enclosure for 1.4 GHz to 2 GHz

1.0 V/m on enclosure for 2 GHz to 2.7 GHz

Modulation:

80%, 1 kHz Amplitude Modulation

#### 8.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 52.0 %RH

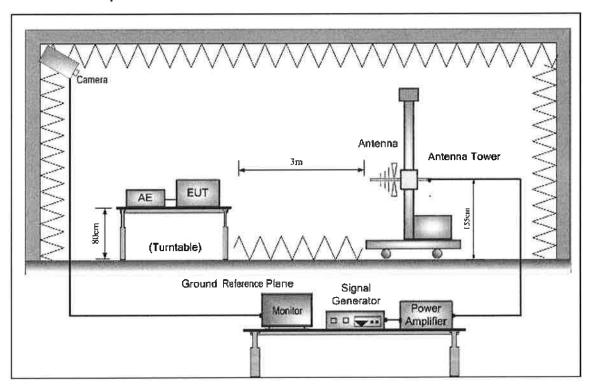
Atmospheric Pressure: 102.3

kPa

Test mode:

Testing mode

#### 8.3.2 Test Setup and Procedure





# (Shanghai) Co., Ltd.

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1. For table-top equipment, the EUT was placed in the chamber on a non-conductive table 0.8m high. For arrangement of floor-standing equipment, the EUT was mounted on a non-conductive support 0.1m above the supporting plane. For human body-mounted equipment, the EUT July be tested in the same manner as table top items.

- 2. If possible, a minimum of 1 m of cable is exposed to the electromagnetic field. Excess length of cables interconnecting units of the EUT shall be bundled low-inductively in the approximate center of the cable to form a bundle 30 cm to 40 cm in length.
- 3. The EUT was initially placed with one face coincident with the calibration plane. The EUT face being illuminated was contained within the UFA (Uniform Field Area).
- 4. The frequency ranges to be considered were swept with the signal modulated and pausing to adjust the RF signal level or to switch oscillators and antennas as necessary. Here the frequency range was swept incrementally, the step size was not exceed 1% of the preceding frequency value.
- 5. The dwell time of the amplitude modulated carrier at each frequency was not be less than the time necessary for the EUT to be exercised and to respond, and was not less than 0.5 s.
- 6. The test normally was performed with the generating antenna facing each side of the EUT.
- 7. The polarization of the field generated by each antenna necessitates testing each selected side twice, once with the antenna positioned vertically and again with the antenna positioned horizontally.
- 8. The EUT was performed in a configuration to actual installation conditions, a video camera and/or a audio monitor were used to monitor the performance of the EUT.



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#### 8.3.3 Test Results

Frequency	Level	Modulation	Test Mode	Antenna Polarization	EUT Face	Result / Observations
	3.0 V/m	1 kHz, 80% Amp. Mod, 1 % increment		V	Front	А
00 MHz 4 OH-			Testing H V H V H V H	H		Α
80 MHz-1 GHz				V	Rear	Α
				Н		А
	3.0 V/m			V	Left	А
1.4GHz to 2 GHz				Н		Α
1.40112 to 2 di 12				V	Right	Α
				Н		А
	1.0 V/m			V	Top Bottom	А
				Н		А
2 GHz to 2.7 GHz				V		А
				Н		А

#### Remarks:

Front: the front of the EUT faces to transmitting antenna (refer to Radiated Immunity test setup photo)

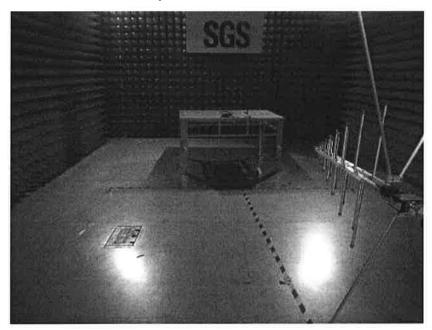
A: During test, no degradation in the performance of the EUT was observed; After test, no degradation in the performance of the EUT was observed.

N/A: Not applicable.

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## **Photographs (Test Setup For the EUT)**

#### 9.1 Radiated Emission Test Setup



#### 9.2 ESD Test Setup





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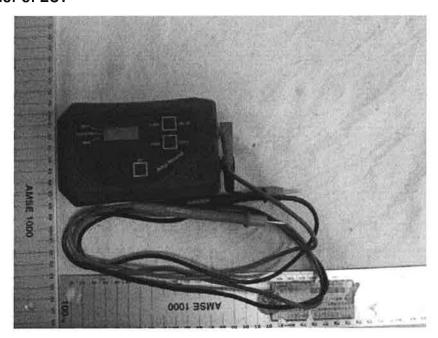
## 9.3 Radiated Immunity Test Setup

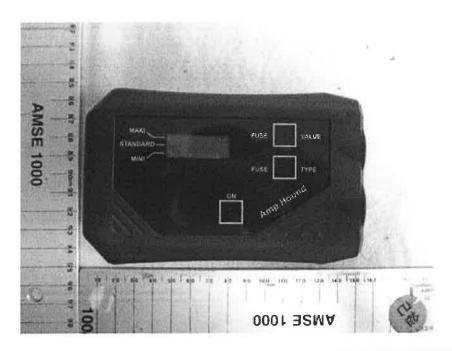


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## 10 EUT Constructional Details

#### 10.1 Exterior of EUT







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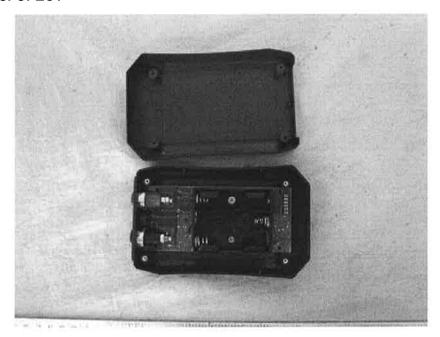


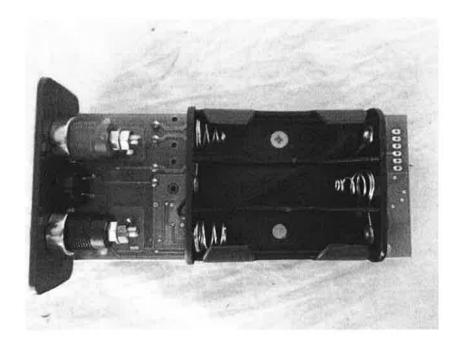


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#### 10.2 Interior of EUT

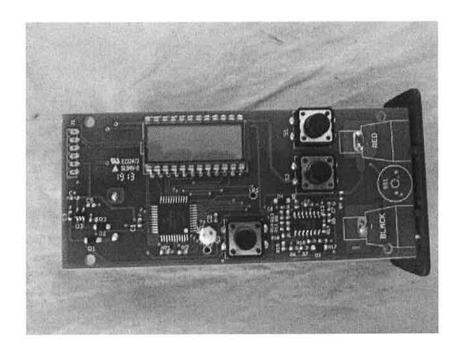






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