



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

EMC MEASUREMENT AND TEST REPORT

FOR

EASTERN TECHNOLOGY (ZHANGZHOU) CO., LTD

Jinfeng Industrial District, Zhangzhou, Fujian 363000, China

MODEL: EM3213A

2009-10-27

This Report Concerns: ☒ Original Report	Equipment Type: Electrical equipment for measurement, control and laboratory use, Class B
Test Engineer: Alex Huang, <i>Alex</i> Peter Zhang <i>Peter</i>	
Test Date: 2007-05-29, 2009-10-26	
Reviewed By: David Li <i>David Li</i> David Li – BACL Engineer	
Prepared By: Bay Area Compliance Laboratory Corporation	

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I - DESCRIPTION

I.1 – GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The **EASTERN TECHNOLOGY (ZHANGZHOU) CO., LTD**, model: **EM3213A** or the "EUT" as referred to in this report. Product's details are presented in Appendix B of this report as reference.

The EUT has a *plastic* enclosure.

Note: The test data was only good for the test sample. It may have deviation from other sample.

1.2 Objective

The following Declaration of Conformity report of an electrical equipment for measurement, control and laboratory use is prepared on behalf of **EASTERN TECHNOLOGY (ZHANGZHOU) CO., LTD**, in accordance with EN 61326-1: 2006, EN 61326-2-2: 2006; requirement for electrical equipment for measurement, control and laboratory use and similar apparatus.

The objective of the manufacturer is to demonstrate compliance with EN 61326-1: 2006, EN 61326-2-2: 2006, electrical equipment for measurement, control and laboratory use radio disturbance characteristics limits and methods of measurement and EN 61326-1: 2006, EN 61326-2-2: 2006, electrical equipment for measurement, control and laboratory use immunity characteristics limits and methods of measurement.

1.3 Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect emission measurement data is located Chengdu & Shenzhen, P. R. China.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The screened room and other facilities at Bay Area Compliance Laboratory Corporation were proved compliant to measurements of IEC/CISPR 16.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, IEC/CISPR 22: 1998 and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Household and similar equipment test methods under NVLAP Lab Code 200167-0.

1.4 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Due Data
Rohde & Schwarz	EMI TEST RECEIVER	ESCS30	830245/006	12/ Nov./10
Rohde & Schwarz	EMI TEST RECEIVER	ESCI	1200028	27/Sep./10
HP	Amplifier	8447E	1937A01046	6/Dec./10
Sunol Sciences	Bi-log Antenna	JB1	A040904-1	27/Dec./10
Sunol Sciences	System Controller	SC99V	033004-1	27/Dec./10
Com-Power	L.I.S.N.	LI-200	12008	20/Dec./10
Com-Power	L.I.S.N.	LI-200	12005	20/Dec./10
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	12/ Nov./10
Rohde & Schwarz	Pulse Limiter	ESH3Z2	DE25985	12/ Oct./10
OATS	Open Area Test Site	OATS1	0006	25/Aug./10
EM TEST	Harmonics and Flicker Analyzer	DPA 500	N/A	8/May/10
EM TEST	AC Source	ACS 500	N/A	8/May/10
AFJ	EMI Receiver	ER55CR/2.8	YQT30-02	8/May/10
AFJ	Loop Antenna	TLA-300 TLA-CAL	N/A	8/May/10
EM TEST	Ultra Compact Generator	UCS500-M	N/A	8/May/10
EM TEST	Motor Variac	MV2616	N/A	8/May/10
SCHAFFNER	ESD SIMULATOR SYSTEM	NSG435	N/A	8/May/10
EM TEST	Current Transformer	MC2630	N/A	8/May/10
HP	RF Signal Generator	8648C	N/A	8/May/10
AR	Magnetic Field Antenna	MS 100	N/A	8/May/10
BAODING ELECTRONICS	Coupling Net	KG-M	N/A	8/May/10

YONGMING ELECTRONICS	Power Clamp	YM9129	YDBW03-01	8/May/10
AFJ	Click Analyzer	CL55C	YQT60-00	8/May/10
EM TEST	Coupling Clamp	N/A	N/A	18/Jun/10
PMM	Signal Generator	PMM-3000	N/A	18/Jun/10
PMM	Power Amplifier	PMM-6000	N/A	18/Jun/10
EM TEST	Auto Transformer	V4070	N/A	8/May/10

* **Statement of Traceability: Bay Area Compliance Laboratory Corp.** Certifies that all calibration have been performed using suitable standards traceable to the NATIONAL INSTITUTE of STANDARDS and TECHNOLOGY (NIST).

1.5 Equipment Under Test (EUT) List and Details

Manufacturer	Description	Model	Serial Number	Chip Set
EASTERN TECHNOLOGY (ZHANGZHOU) CO., LTD	Autorange Digital Multimeter	EM3213A	N/A	N/A

1.6 Local Support Equipment

Manufacturer	Description	Model	Serial Number	FCC ID

1.7 Interference Ports and List and Details

Cable Description	Length (M)	From	To

I. 2 - SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

The EUT was tested in the normal operating mode to represent worst case results during the final qualification test.

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

The sequence used is as follows:

The Test Leads plug in jacks of the EUT and measure voltage, etc. In this way, the EUT is operating in normal mode.

2.3 Special Accessories

As shown in section 2.7, all interface cables used for compliance testing are shielded as normally supplied by *the applicant* and their respective equipment manufacturers.

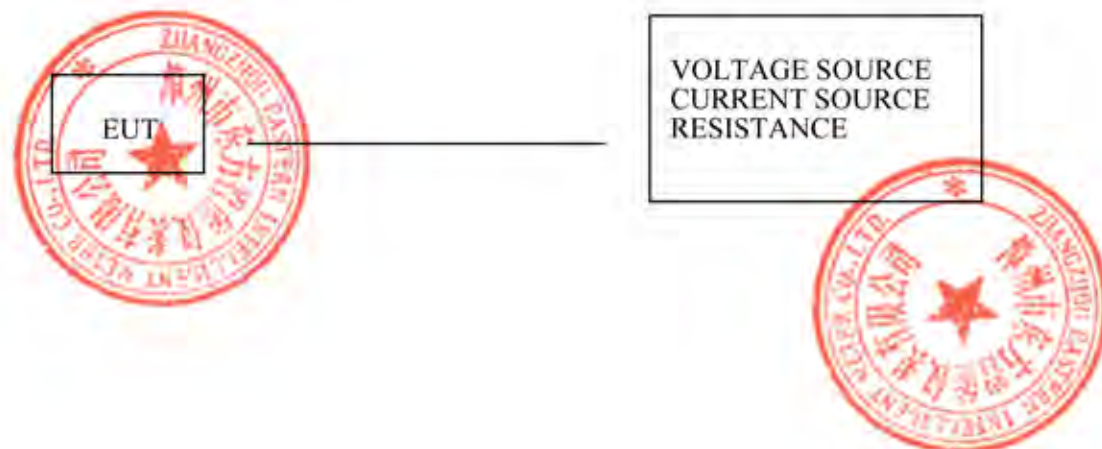
2.4 Schematics/Block Diagram

N/A

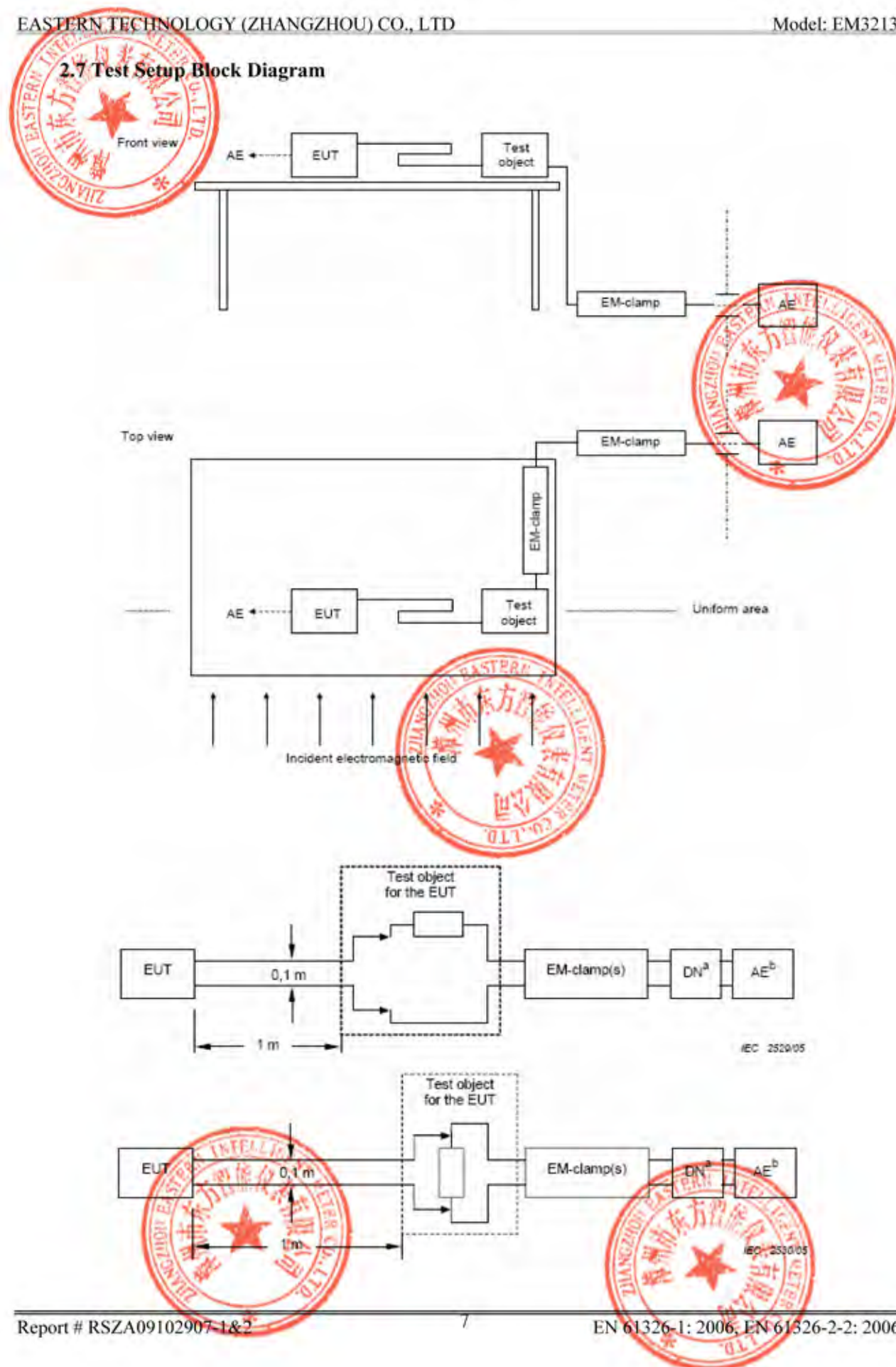
2.5 Equipment Modifications

No modifications to the EUT were necessary to comply with the applicable limits.

2.6 Configuration of Test System



2.7 Test Setup Block Diagram



II - EMISSION TEST DATA AND RESULTS

II.1- GENERAL INFORMATION

1.1 Objective

Currently, EN 61326-1: 2006, EN 61326-2-2: 2006, electrical equipment for measurement, control and laboratory use- radio disturbance characteristic-limits and methods of measurement standards. Due to the standard applicability of the EUT, the one (1) tests as follows:

1. Radiated Electromagnetic Disturbance test in accordance with EN 61326-1: 2006, EN 61326-2-2: 2006.

In order to demonstrate compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards. Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the immunity should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different transceiver, harnessing and/or I/O cable changes, etc.).

1.2 Test Methodology

All measurements contained in this report were conducted with CISPR 16 and CISPR 22 specification for radio disturbance and immunity apparatus and methods and Electronic Equipment in the range of 9 kHz to 40 GHz, and electrical equipment for measurement, control and laboratory use-radio disturbance characteristics-limits and methods of measurement. All radiated and conducted emissions measurement was performed at BACL. The radiated testing was performed at an antenna-to-EUT distance of 3 Meters. And the EUT was placed on the 80cm non-metallic circle table.

II. 2 – RADIATED ELECTROMAGNETIC DISTURBANCE TEST

2.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are EMI test receiver, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81: The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BAEL is ± 4.0 dB.

2.2 EUT Setup

The radiated electromagnetic disturbance tests were performed in the shielding room, using the setup accordance with the CISPR16. The specification used was the EN 61326-1: 2006, EN 61326-2-2: 2006 limits.

The EUT and local equipments were placed on the center of the back edge of the test table. Directly the EUT was connected with the sensor in the cup with water. Additionally, external I/O cables were draped along the test table and bundled when necessary.

The EUT's power was one 3V battery.

2.3 EMI test receiver Setup

According to EN 61326-1: 2006, EN 61326-2-2: 2006 Rules, the system can be test to 1000 MHz.

During the radiated electromagnetic disturbance test, the EMI test receiver was set with the following configurations:

Start Frequency	30 MHz
Stop Frequency	1000 MHz
Sweep Speed	Auto
IF Bandwidth	120 kHz
Video Bandwidth	300 kHz
Resolution Bandwidth	100 kHz

2.4 Test Procedure

During the radiated electromagnetic disturbance test, the EUT's power was one 3V battery.

Maximizing procedure was performed on the highest emissions to ensure EUT is compliant with all installation combinations.

All data were recorded in the peak detection mode.

The EUT was in the normal (native) operating mode during the final qualification test to represent the worst case results.

2.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dBuV below the maximum limit for EN 61326-1: 2006, EN 61326-2-2: 2006, Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - EN 61326-1: 2006, EN 61326-2-2: 2006 Limit

2.6 Summary of Test Results

According to the data in section 2.7, the EUT complied with the EN 61326-1: 2006, EN 61326-2-2: 2006 standards had the worst margin of:

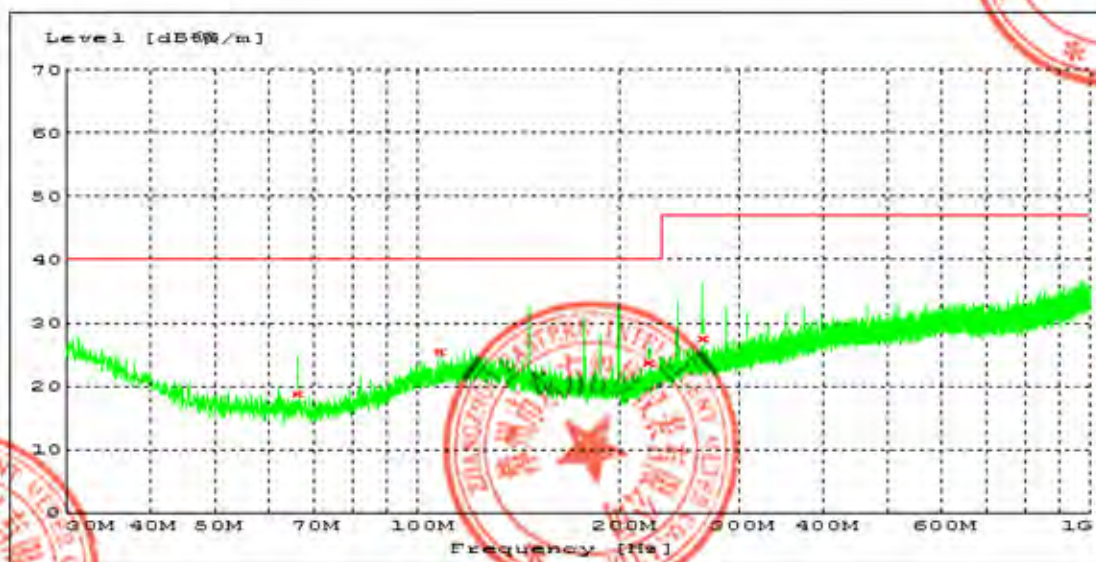
-13.80 dB at 107.342000 MHz in the **Horizontal** polarization for Normal Operating Mode, 30 to 1000MHz, 3 meters

2.7 Radiated Emissions Test Data

Test Data for Normal (Native) Operating Mode, 30 to 1000 MHz, and 3 meters.

Frequency	Level	Transd	Height	Azimuth	Polar	EN 61326-1: 2006, EN 61326-2-2: 2006 CLASS B	
MHz	dBuV/m	dBuV/m	deg	angle	H / V	Limit	Margin
67.614700	19.20	13.1	97.0	168.0	V	40	-20.80
107.342000	26.20	12.8	115.0	104.0	H	40	-13.80
213.121600	23.80	11.1	179.0	169.0	H	40	-16.20
271.237500	28.25	12.8	209.0	173.0	H	47	-18.75

Test Curve



III - IMMUNITY TEST DATA AND RESULTS

III.1 - GENERAL INFORMATION

1.1 Objective

Currently, EN 61326-1: 2006, EN 61326-2-2: 2006 - electrical equipment for measurement, control and laboratory use characteristics limits and methods of test standards. Due to the standard applicability of the EUT, the two tests as follows:

1. Electrostatic discharge immunity (ESD) in accordance with EN 61000-4-2.
2. RF- electromagnetic field immunity in accordance with EN 61000-4-3.

Data has been collected, reduced, and analyzed within this report in accordance with EN 61326-1: 2006, EN 61326-2-2: 2006, Immunity requires the following as specific performance criteria:

- A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.
- B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacture. No change in operating state or loss or data is permitted.
- C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.

In order to demonstrate compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards. Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the immunity should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing and/or I/O cable changes, etc.).

1.2 Test Methodology

All measurements contained in this report were conducted with CISPR 16 & EN 61326-1: 2006, EN 61326-2-2: 2006, electrical equipment for measurement, control and laboratory use Characteristics limits and methods of test standards. All measurement was performed by Bay Area Compliance Laboratory Corp.

III. 2 - MEASUREMENT INSTRUMENTATION

2.1 Electrostatic Discharge Immunity Test System

A SCHAFFNER ESD SIMULATOR SYSTEM NSG435 is used for testing. It is capable of applying Electrostatic Discharges in both contact discharge modes to 8 kV and air discharge modes to 15 kV in both positive and negative polarities. This is in accordance with EN 61000-4-2 EMC standard.

2.1.1 Electrostatic Discharge Immunity Test System Measurement Uncertainty

The measurement uncertainty with a 95 % confidence factor has determined that the applied voltage has a maximum variance of $\pm 5\%$ of stated applied value.

2.2 Electromagnetic Field Immunity Test System

A HP power amplifier and a RF signal generator are used to provide a signal at the appropriate power and frequency required electromagnetic field at the position of the EUT in accordance with the EN 61000-4-3 basic EMC publication.

2.2.1 Electromagnetic Field Immunity Test System Measurement Uncertainty

The measurement uncertainty with a 95 % confidence factor has determined that the applied field has an expanded uncertainty value of 1.97. This yields an uncertainty of 0.15V (rms) in the applied field levels

2.3 Equipment Test Table

EN 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 by 0.8 meter metal sheet Horizontal Coupling Plane (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohm resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5 millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

EN 61000-4-4 specify that a tabletop EUT be placed on a non-conducting table 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on an insulating support approximately 10 centimeters above a ground plane. During the EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, and EN 61000-4-11 tests, the EUT is positioned on a table over a ground reference plane in conformance with this requirement.

2.4 Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications.

Extensive engineering effort has been made to ensure test data reliability through Quality Control and regular equipment calibration schedules. However, the application of radio frequency fields and voltages are not without an unavoidable level of uncertainty. These include inaccuracies in antenna factors, chamber imperfections and possible test generator output uncertainties.

III. 3 - TEST PROCEDURES

3.1 EUT and Cable Placement

The EUT and any peripherals are located at the center of the table for tabletop devices and in the center of the ground plane with the insulating support for floor-standing devices. The standards require that interconnecting cables to be connected to available ports of the unit and that the placement of the unit and the attached cables simulate a typical installation so far as to be practical.

3.2 Application of Electrostatic Discharge Immunity Test

The test is conducted in the following order: Air Discharge, Direct Contact Discharge. The Electrostatic Discharge test levels are set and discharges for the different test modes are set appropriately. The Electrostatic Discharge is applied to the conductive surface of the computer in which the EUT is enclosed, and along all seams and control surfaces on the computer. When a discharge occurs and an error is caused, the type of error, discharge level and location is recorded.

3.3 Application of Electromagnetic Field Immunity Test

The electromagnetic field is established at the front edge of the EUT. The frequency range is swept from 80 to 1000 MHz using a power level necessary to obtain a 3 volt/meter and 80% amplitude of a 1 kHz sine wave modulated field. Strength is directed at the EUT. The test is performed with the most susceptible side of the EUT facing the field-generating antenna. If an error is detected, the field is reduced until the error is not repeatable; the field is then manually increased until the error begins to occur. This threshold level, the frequency and the error created are noted before continuing.

3.4 Deviations from the Standard

No deviations from EN 61326-1: 2006, EN 61326-2-2: 2006 were made when performing the tests described in this report.

III. 4 - TEST DATA

4.1 Environmental Conditions

Temperature:	23°C
Humidity:	52%
ATM Pressure:	1025 mBr

4.2 Electrostatic Discharge Immunity (EN 61000-4-2)

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2 Test Points		Test Levels							
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Jacks	10 Points	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ
LCD	8 Points	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ
Enclosure	6 Points	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2 Test Points		Test Levels									
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV
Leads	2 Points	Λ	Λ	Λ	Λ	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

EN 61000-4-2 Test Points		Test Levels									
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV
Front Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/
Back Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/
Left Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/
Right Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

EN 61000-4-2 Test Points		Test Levels									
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV
Front Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/
Back Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/
Left Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/
Right Side		Λ	Λ	Λ	Λ	/	/	/	/	/	/

4.3 RF-Electromagnetic Field Immunity Test (EN 61000-4-3)

Frequency Range (MHz)	Front (3 V/m)		Rear (3 V/m)		Left Side (3 V/m)		Right Side (3 V/m)	
	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	A	A	A	A	A	A	A	A

Note:

A ----- Performance Criteria A as stated in Section 1.1 of this report
B ----- Performance Criteria B as stated in Section 1.1 of this report
C ----- Performance Criteria C as stated in Section 1.1 of this report

III. 5 - TEST RESULTS

The following tests were performed on the **EASTERN TECHNOLOGY (ZHANGZHOU) CO., LTD**, model: **EM3213A**. The actual test results are contained within the Test Data section of this report.

5.1 EN 61000-4-2 Electrostatic Discharge Immunity Test

The EUT is subjected to the electrostatic discharge tests required by EN 61326-1: 2006, EN 61326-2-2: 2006 and all lower levels specified in EN 61000-4-2.

The EUT continued to perform as intended during and after the application of the ESD.
Test setup photographs presented in Appendix A.

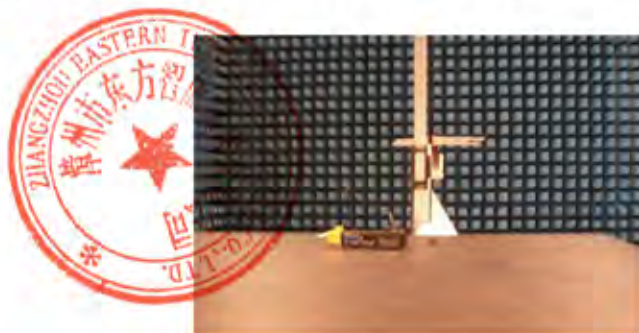
5.2 EN 61000-4-3 RF-Electromagnetic Field Immunity Test

The EUT is subjected to a 3-volt/meter, 80% Amplitude, 1 kHz Sine wave field as required by EN 61326-1: 2006, EN 61326-2-2: 2006.

The EUT continued to perform as intended during and after the application of the RF-electromagnetic field.
Test setup photographs presented in Appendix A.

APPENDIX A – TEST PHOTOGRAPHS

RADIATED ELECTROMAGNETIC DISTURBANCE TEST SETUP VIEW



ELECTROSTATIC DISCHARGE IMMUNITY TEST SETUP VIEW (EN 61000-4-2)



RF-ELECTROMAGNETIC FIELD IMMUNITY TEST SETUP VIEW (EN 61000-4-3)



APPENDIX B – EUT PHOTOGRAPHS

EUT VIEW



EUT UNCOVERED VIEW



EUT PCB VIEW



Manufacturer/ Approval holder Declaration

The following identical model(s):

EM3213

belong to the tested device:

Product description: **Autorange Digital Multimeter**

Model name: **EM3213A**

No additional models were tested.