



# FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

**Industrial PC**

**Model: AMOS-3000XXXXXXXX, AMOS3000XXXXX-T**

(where X may be any alphanumeric character or blank for making purpose and no impact safety related critical components and constructions)

Test Report Number:

90424104-D

Issued for

**VIA Technologies, Inc.**

**8F, No. 533, Chung-Cheng Road, Hsin-Tien, Taipei 231, Taiwan**

Issued By:

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**Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	May 6, 2009	Initial Issue	All	Sabrina Wang



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**TABLE OF CONTENTS**

**1 TEST RESULT CERTIFICATION ..... 4**

**2 EUT DESCRIPTION ..... 5**

**3 TEST METHODOLOGY ..... 6**

    3.1. DECISION OF FINAL TEST MODE..... 6

    3.2. EUT SYSTEM OPERATION ..... 6

**4 SETUP OF EQUIPMENT UNDER TEST ..... 7**

    4.1. DESCRIPTION OF SUPPORT UNITS ..... 7

    4.2. CONFIGURATION OF SYSTEM UNDER TEST ..... 8

**5 FACILITIES AND ACCREDITATIONS..... 9**

    5.1. FACILITIES ..... 9

    5.2. ACCREDITATIONS ..... 9

    5.3. MEASUREMENT UNCERTAINTY..... 10

**6 CONDUCTED EMISSION MEASUREMENT ..... 11**

    6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT ..... 11

    6.2. TEST INSTRUMENTS ..... 11

    6.3. TEST PROCEDURES..... 12

    6.4. TEST SETUP ..... 13

    6.5. DATA SAMPLE: ..... 13

    6.6. TEST RESULTS ..... 14

**7 RADIATED EMISSION MEASUREMENT ..... 16**

    7.1. LIMITS OF RADIATED EMISSION MEASUREMENT ..... 16

    7.2. TEST INSTRUMENTS ..... 16

    7.3. TEST PROCEDURES..... 17

    7.4. TEST SETUP ..... 18

    7.5. DATA SAMPLE: ..... 18

    7.6. TEST RESULTS ..... 19

**8 PHOTOGRAPHS OF THE TEST CONFIGURATION ..... 23**



# 1 TEST RESULT CERTIFICATION

<b>Product:</b>	Industrial PC
<b>Model:</b>	AMOS-3000XXXXXXX, AMOS3000XXXXX-T (where X may be any alphanumeric character or blank for making purpose and no impact safety related critical components and constructions)
<b>Brand:</b>	VIA
<b>Applicant:</b>	<b>VIA Technologies, Inc.</b> 8F, No. 533, Chung-Cheng Road, Hsin-Tien, Taipei 231, Taiwan
<b>Manufacturer:</b>	<b>VIA Technologies, Inc.</b> 8F, No. 533, Chung-Cheng Road, Hsin-Tien, Taipei 231, Taiwan
<b>Tested:</b>	April 29 ~ May 6, 2009
<b>Test Voltage:</b>	120VAC, 60Hz

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B (July 10, 2008), ICES-003 Issue 4 ANSI C63.4-2003	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

**Note:** 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.  
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Approved by:**

**Reviewed by:**

Ethan Huang  
Section Manager  
Compliance Certification Services Inc.

Julia Wei  
Senior Specialist  
Compliance Certification Services Inc.



## 2 EUT DESCRIPTION

<b>Product</b>	Industrial PC		
<b>Model</b>	AMOS-3000XXXXXXXX, AMOS3000XXXXX-T (where X may be any alphanumeric character or blank for making purpose and no impact safety related critical components and constructions)		
<b>Brand Name</b>	VIA		
<b>Applicant</b>	VIA Technologies, Inc.		
<b>Serial Number</b>	90424104		
<b>Received Date</b>	April 24, 2009		
<b>EUT Power Rating</b>	12VDC		
<b>Main Board Manufacturer</b>	PICO-ITX	<b>Model</b>	EPIA-P700
<b>CPU Manufacturer</b>	VIA	<b>Model</b>	VIA C7® 1.0GHz NanoBGA2 processor
		<b>Model</b>	VIA Eden ULV 500MHz NanoBGA2 processor
<b>DVI Card Manufacturer</b>	On board		
<b>VGA Card Manufacturer</b>	On board		
<b>LAN Card Manufacturer</b>	On board		
<b>Sound Card Manufacturer</b>	On board		
<b>Accessory Adapter</b>	2-pin Phoenix to DC Jack cable		

### I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1). Video Port (D-Sub)	1	1
2). Video Port (DVI)	1	1
3). Serial Port	2	2
4). Earphone Port	1	1
5). Microphone Port	1	1
6). Line In Port	1	1
7). USB Port	4	4
8). LAN Port	1	1

**Note:**

- 1.The means of "X" (where X may be any alphanumeric character or blank) on model number are identical, just for making purpose and no impact safety related critical components and constructions.
- 2.All the model numbers (list on this report) are identical just for marketing purpose only.
- 3.Client consigns only one model sample (Model number: AMOS-3000) to test. Therefore testing Lab. just guarantees the units, which have been tested.

### 3 TEST METHODOLOGY

#### 3.1. DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode			
Mode	D-SUB	DVI	CPU
1	1600 x 1200 Resolution, 60Hz	---	VIA VIA Eden ULV 500MHz NanoBGA2 processor
2	1600 x 1200 Resolution, 60Hz	---	VIA VIA C7® 1.0GHz NanoBGA2 processor
3	1600 x 1200 Resolution, 60Hz	1600 x 1200 Resolution, 60Hz	VIA VIA C7® 1.0GHz NanoBGA2 processor

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	<b>Mode 3</b>
	Radiated Emission	<b>Mode 3</b>

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

#### 3.2. EUT SYSTEM OPERATION

1	Setup the EUT and simulators as shown on 4.2.
2	Turn on the power of all equipment.
3	The module device driver was exercised to play music.
4	EUT sends and receives data from Notebook PC at remote side via LAN Cable.
5	The EMI (File name: EMC Test) test program was loaded from EUT and executed in "Windows XP " mode.
6	The data was sent to monitor filling the screen with upper case of "H" patterns.
7	Test program sequentially exercised all related I/O's of EUT and sent "H" patterns to all applicable output ports of EUT..
8	Repeat the above procedure (3) to (7).

**Note:** Test program is self-repeating throughout the test.



## 4 SETUP OF EQUIPMENT UNDER TEST

### 4.1. DESCRIPTION OF SUPPORT UNITS

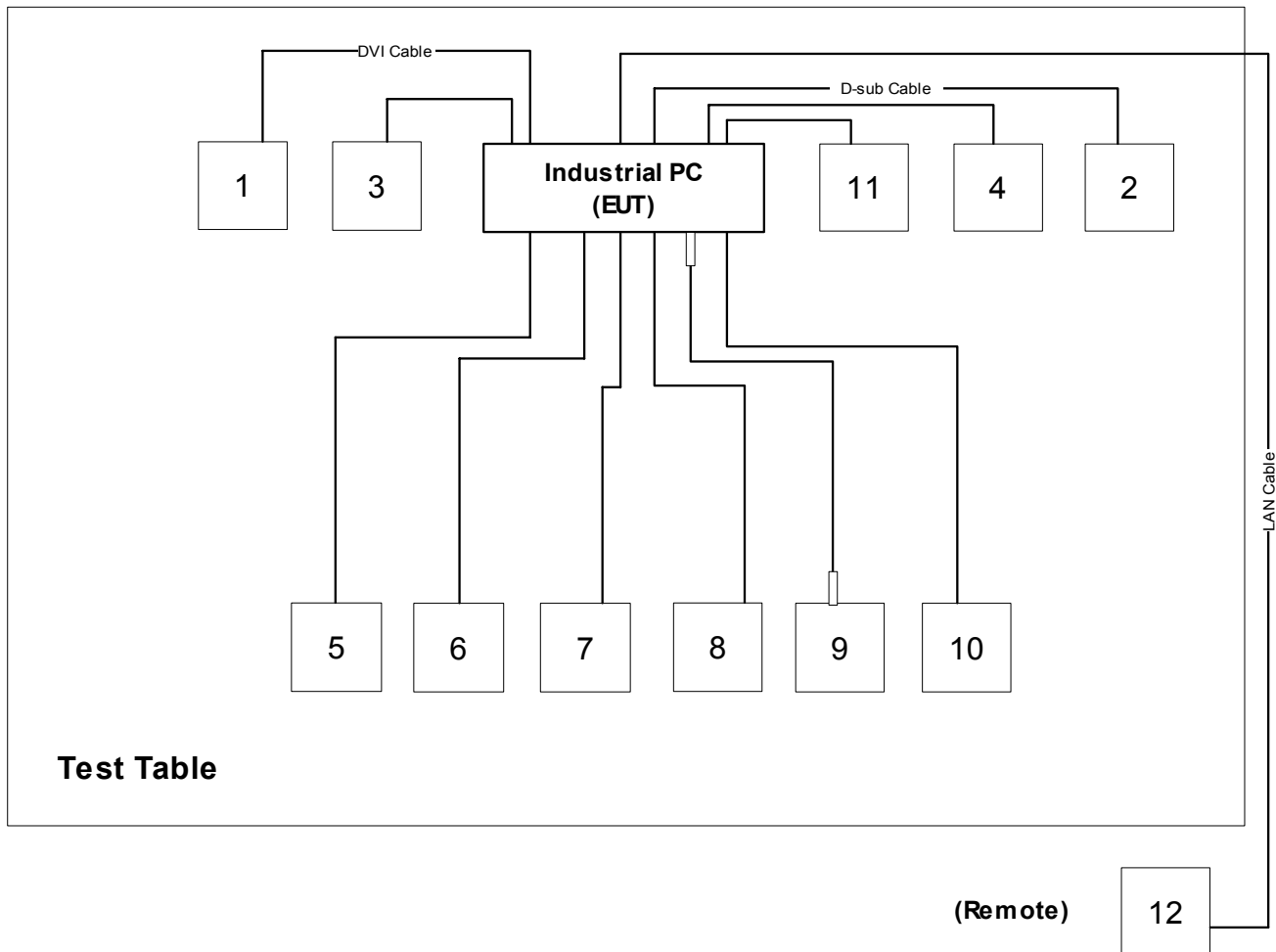
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	LCD Monitor	2407WFPb	CN-0FC255-46633-6 75-22TJS	FCC DoC	DELL	DVI Cable: Shielded, 1.8m with two cores	Unshielded, 1.8m
2.	LCD Monitor	2407WFPb	CN-0FC255-46633-6 75-24TKS	FCC DoC	DELL	D-Sub Cable: Shielded, 1.8m with two cores	Unshielded, 1.8m
3.	Modem	DM-1414	304012268	IFAXDM1414	ACEEX	Serial Cable: Unshielded, 1.8m	Unshielded, 1.8m
4.	Modem	DM-1414	304012270	IFAXDM1416	ACEEX	Serial Cable: Unshielded, 1.8m	Unshielded, 1.8m
5.	USB Keyboard	6512-UV	21200201-12018673 84	FCC DoC	ACER	USB Cable: Shielded, 1.8m	N/A
6.	USB Mouse	MO19UCA	020440953	FCC DoC	HP	USB Cable: Shielded, 1.8m	N/A
7	Traveling Disk (512MB)	N/A	N/A	FCC DoC	qpi	USB Cable: Shielded, 1.8m	N/A
8	Traveling Disk (512MB)	N/A	N/A	FCC DoC	qpi	USB Cable: Shielded, 1.8m	N/A
9	Multimedia Headset	CJC-5258MV	0507106337	FCC DoC	CJC	Unshielded, 1.8m X2	N/A
10	Walkman	RQ-L10	DB001392	FCC DoC	Panasonic	Unshielded, 1.8m	N/A
11	Power Adapter	SSA-0601S-11	N/A	FCC DoC	Seasanic	N/A	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.5m with a core
12	Notebook PC (Remote)	COMPAQ NC 4010	CNU441F8LV	FCC DOC	HP	LAN Cable: Unshielded, 10m	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core

**Note:** Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

**4.2. CONFIGURATION OF SYSTEM UNDER TEST**

1	LCD Monitor	2	LCD Monitor	3	Modem
4	Modem	5	USB Keyboard	6	USB Mouse
7	Traveling Disk (512MB)	8	Traveling Disk (512MB)	9	Multimedia Headset
10	Walkman	11	Power Adapter	12	Notebook PC





## 5 FACILITIES AND ACCREDITATIONS

### 5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

### 5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

<b>Taiwan</b>	TAF
<b>USA</b>	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

<b>Canada</b>	Industry Canada
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Taiwan</b>	BSMI
<b>USA</b>	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	$\pm 1.7806$
Radiated emissions	30~200MHz	$\pm 3.8881$
	200~1000MHz	$\pm 3.8724$

*This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .*

*Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.*

*The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than  $U_{CISPR}$  which is 3.6dB and 5.2dB respectively. CCS values (called  $U_{Lab}$  in CISPR 16-4-2) is less than  $U_{CISPR}$  as shown in the table above. Therefore, MU need not be considered for compliance.*



## 6 CONDUCTED EMISSION MEASUREMENT

### 6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

- NOTE:** 1. The lower limit shall apply at the transition frequencies.  
 2. The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.  
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 6.2. TEST INSTRUMENTS

Conducted Emission Room #3				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCS30	845552/030	04/08/2010
LISN	R&S	ENV216	100074	12/09/2009
LISN	FCC	FCC-LISN-50/ 250-16-2-07	06013	10/12/2009
Test S/W	LabVIEW 6.1 (CCS Conduction Test SW Version_01)			

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. N.C.R = No Calibration Request.

### **6.3. TEST PROCEDURES** (please refer to measurement standard or CCS SOP PA-031)

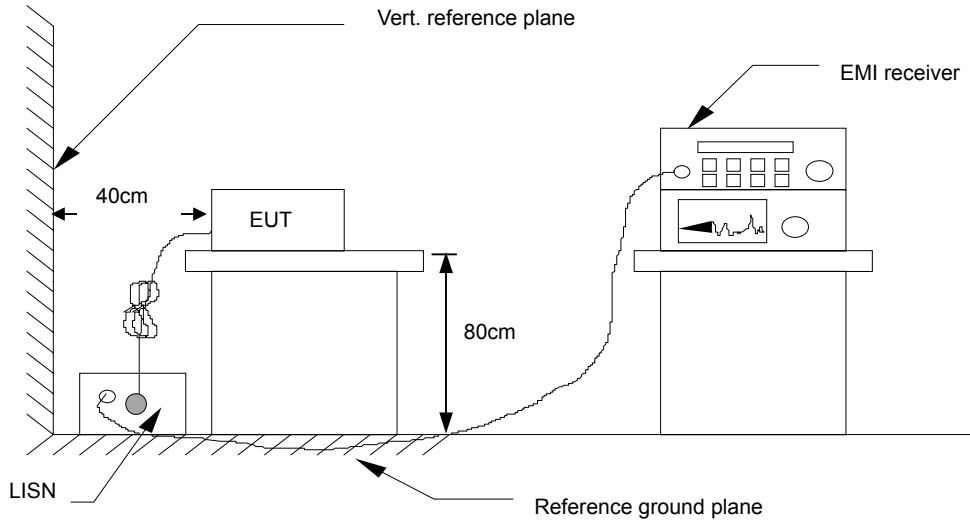
#### **Procedure of Preliminary Test**

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

#### **Procedure of Final Test**

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

### 6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 6.5. DATA SAMPLE:

Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correcrtion factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak. limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
x.xx	43.95	33.00	10.00	53.95	43.00	56.00	46.00	-2.05	-3.00	Pass

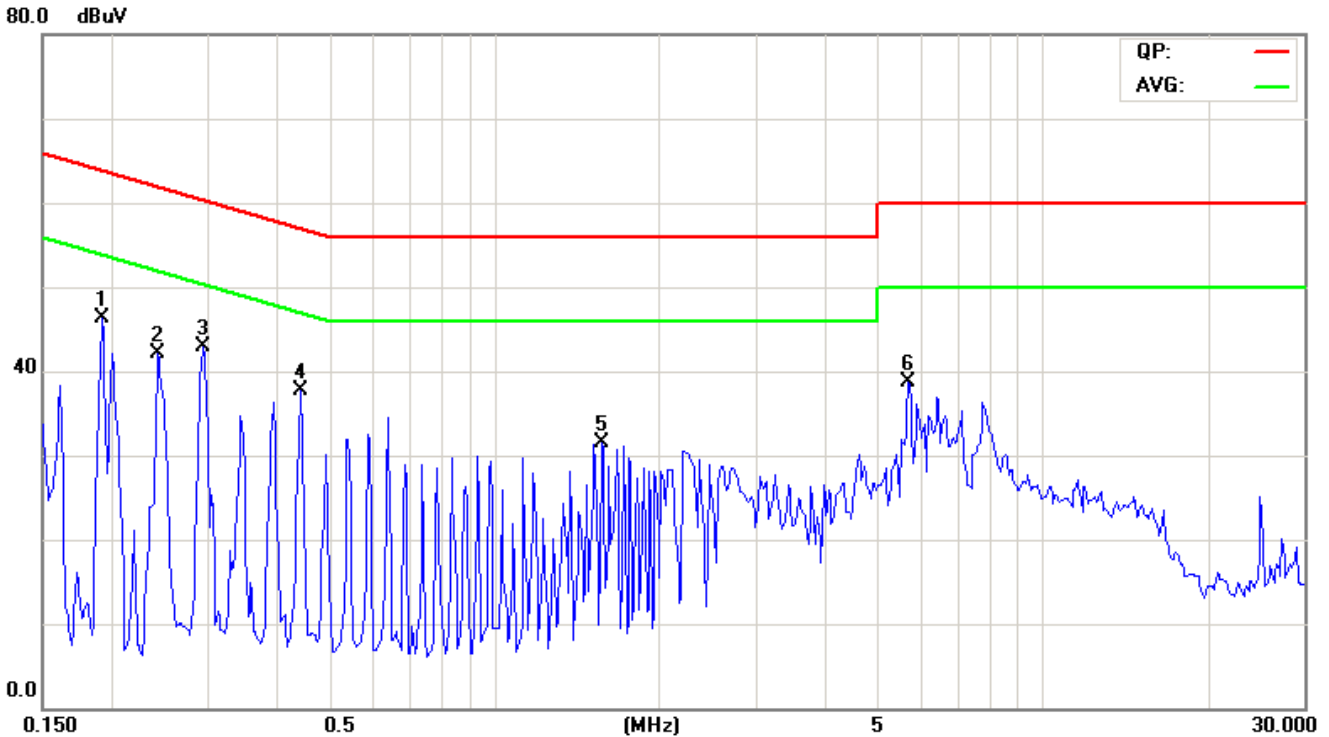
Frequency (MHz) = Emission frequency in MHz  
 Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB  
 Correction Factor (dB) = LISN Factor + Cable Loss  
 Result (dBuV) = Raw reading converted to dBuV and CF added  
 Limit (dBuV) = Limit stated in standard  
 Margin (dB) = Result (dBuV) – Limit (dBuV)



### 6.6. TEST RESULTS

#### CCS Conduction Test 3

<b>Model No.</b>	AMOS-3000	<b>6dB Bandwidth</b>	9 kHz
<b>Environmental Conditions</b>	25°C, 57% RH	<b>Test Mode</b>	Mode 3
<b>Tested by</b>	Carl Chang	<b>Line</b>	L1



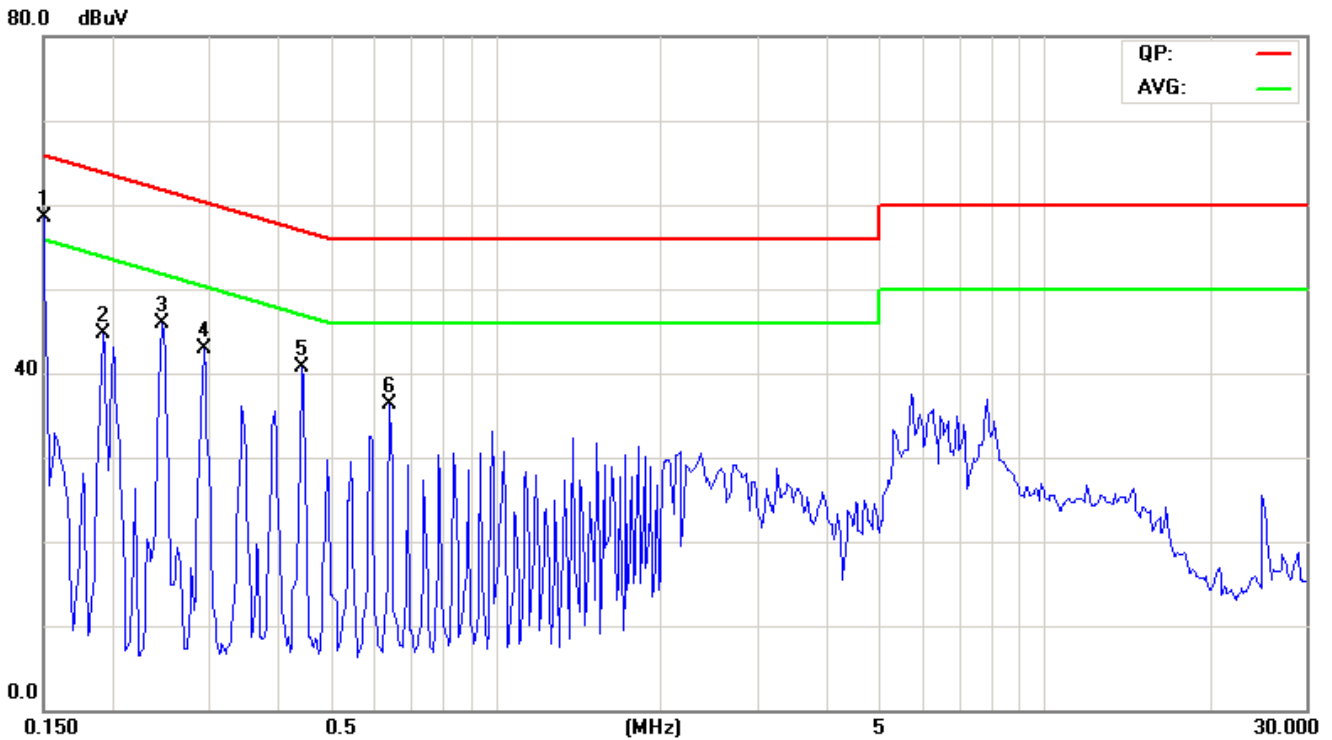
NO.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1930	37.42	27.92	9.68	47.10	37.60	63.91	53.91	-16.81	-16.31	Pass
2	0.2437	35.12	26.62	9.68	44.80	36.30	61.97	51.97	-17.17	-15.67	Pass
3	0.2945	34.32	26.72	9.68	44.00	36.40	60.40	50.40	-16.40	-14.00	Pass
4	0.4430	31.06	27.06	9.64	40.70	36.70	57.01	47.01	-16.31	-10.31	Pass
5	1.5758	21.14	18.54	9.66	30.80	28.20	56.00	46.00	-25.20	-17.80	Pass
6	5.7086	22.48	9.08	9.82	32.30	18.90	60.00	50.00	-27.70	-31.10	Pass

**REMARKS:** L1 = Line One (Live Line)



CCS Conduction Test 3

<b>Model No.</b>	AMOS-3000	<b>6dB Bandwidth</b>	9 kHz
<b>Environmental Conditions</b>	25°C, 57% RH	<b>Test Mode</b>	Mode 3
<b>Tested by</b>	Carl Chang	<b>Line</b>	L2



NO.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1500	50.00	39.50	9.70	59.70	49.20	66.00	56.00	-6.30	-6.80	Pass
2	0.1930	34.91	25.61	9.69	44.60	35.30	63.91	53.91	-19.31	-18.61	Pass
3	0.2477	37.31	28.71	9.69	47.00	38.40	61.83	51.83	-14.83	-13.43	Pass
4	0.2945	33.31	26.11	9.69	43.00	35.80	60.40	50.40	-17.40	-14.60	Pass
5	0.4430	30.65	26.85	9.65	40.30	36.50	57.01	47.01	-16.71	-10.51	Pass
6	0.6422	25.91	21.91	9.59	35.50	31.50	56.00	46.00	-20.50	-14.50	Pass

REMARKS: L2 = Line Two (Neutral Line)



## 7 RADIATED EMISSION MEASUREMENT

### 7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	dBuV/m (At 10m)	
	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

Frequency (MHZ)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 960	59.5	79.5	54	74

**NOTE:** 1. The lower limit shall apply at the transition frequencies.  
 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

### 7.2. TEST INSTRUMENTS

Open Area Test Site # 2				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilnet	E4411B	MY41440314	N.C.R
EMI Test Receiver	R&S	ESVS30	828488/004	03/24/2010
Pre-Amplifier	HP	8447D	2944A08780	07/25/2009
Bilog Antenna	CHASE	CBL 6112A	2307	06/06/2009
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
RF Switch	ANRITSU	MP59B	M76890	N.C.R
Site NSA	CCS	N/A	N/A	04/11/2009
Test S/W	LabVIEW 6.1 (CCS OATS EMI SW V2.6)			

3 Meter Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	ADVANTEST	R3271A	85060321	10/22/2009
Pre-Amplifier	HP	8449B	3008A00965	12/31/2009
Horn Antenna	EMCO	3115	9602-4659	04/16/2010
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Test S/W	LabVIEW 5.1 (966_Chamber_EMI TEST)			

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. N.C.R = No Calibration Request.

### **7.3. TEST PROCEDURES** (please refer to measurement standard or CCS SOP PA-031)

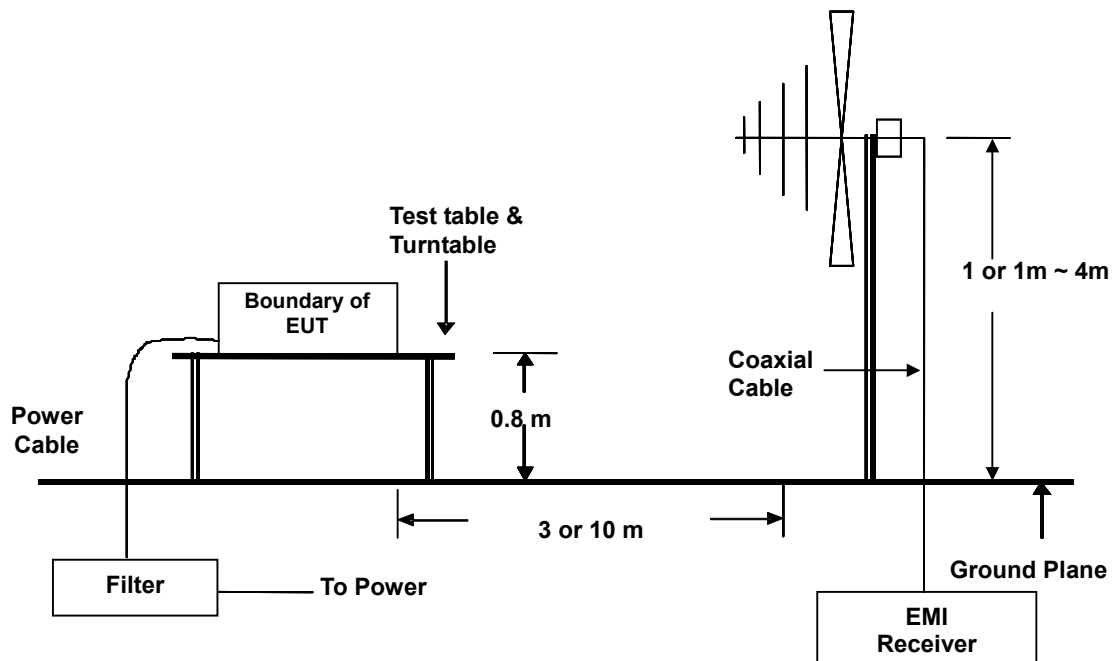
#### **Procedure of Preliminary Test**

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

#### **Procedure of Final Test**

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

### 7.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 7.5. DATA SAMPLE:

**Below 1GHz**

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
xx.xx	16.49	9.86	26.35	30.00	-3.65	116.00	101.00	QP

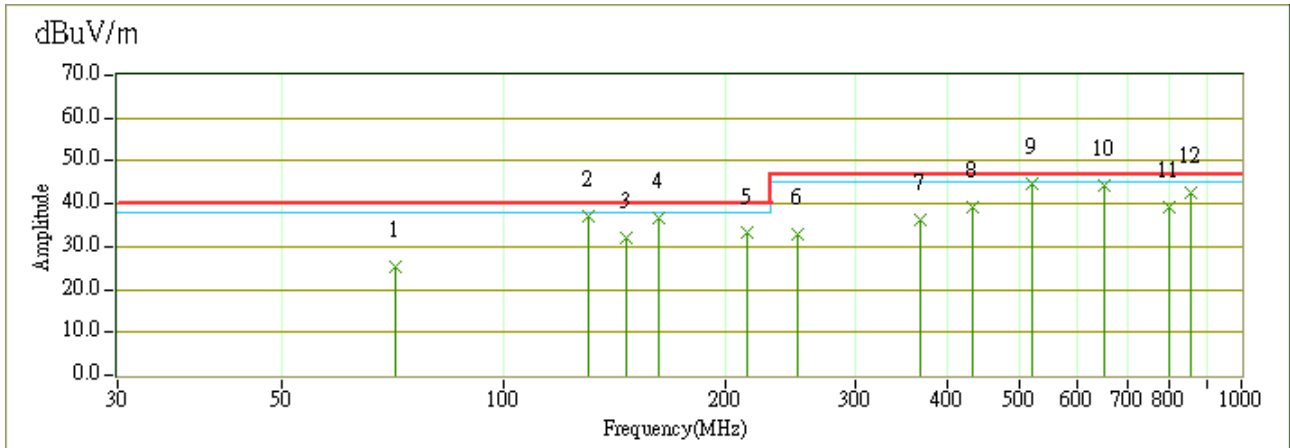
**Above 1GHz**

Frequency MHz	Corr. Factor (dB/m)	Reading		Result		Limit		Margin	
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)
xxxx.xxx	-4.35	49.81	58.74	45.46	54.39	54.00	74.00	-8.54	-19.61

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV) = Uncorrected Analyzer / Receiver reading
- Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
- Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
- Q.P. = Quasi-Peak

**7.6. TEST RESULTS**

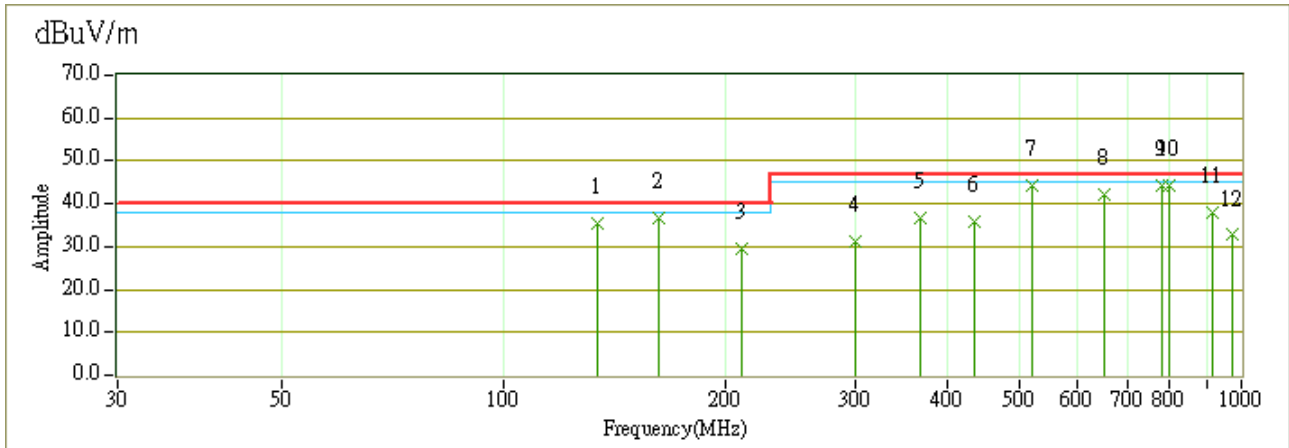
<b>Model No.</b>	AMOS-3000	<b>Test Mode</b>	Mode 3
<b>Environmental Conditions</b>	26°C, 63% RH	<b>6dB Bandwidth</b>	120 kHz
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	10m
<b>Detector Function:</b>	Quasi-peak.	<b>Tested by</b>	Harry Wang



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	71.50	42.81	-17.42	25.39	40.00	-14.61	231.80	100.00	Peak
2	130.10	49.60	-12.42	37.18	40.00	-2.82	333.00	100.00	QP
3	147.00	45.00	-12.79	32.21	40.00	-7.79	96.10	100.00	QP
4	162.00	50.00	-13.25	36.75	40.00	-3.25	36.70	100.00	QP
5	213.50	45.44	-12.33	33.11	40.00	-6.89	301.40	100.00	Peak
6	250.20	41.01	-8.02	32.98	47.00	-14.02	239.80	101.70	Peak
7	367.50	41.58	-5.50	36.09	47.00	-10.91	73.40	267.30	Peak
8	432.30	43.92	-4.85	39.07	47.00	-7.93	7.80	298.80	Peak
9	521.30	47.90	-3.37	44.53	47.00	-2.47	234.70	100.00	QP
10	651.00	45.30	-1.11	44.19	47.00	-2.81	253.20	151.70	QP
11	797.00	35.00	4.16	39.16	47.00	-7.84	39.80	100.00	QP
12	856.30	38.01	4.63	42.64	47.00	-4.36	13.70	100.00	Peak

**REMARKS:** The other emission levels were very low against the limit.

<b>Model No.</b>	AMOS-3000	<b>Test Mode</b>	Mode 3
<b>Environmental Conditions</b>	26°C, 63% RH	<b>6dB Bandwidth</b>	120 kHz
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	10m
<b>Detector Function:</b>	Quasi-peak.	<b>Tested by</b>	Harry Wang



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	134.30	47.90	-12.44	35.46	40.00	-4.54	40.00	400.00	Peak
2	162.00	50.00	-13.25	36.75	40.00	-3.25	288.80	400.00	QP
3	210.00	42.00	-12.48	29.52	40.00	-10.48	40.50	400.00	QP
4	299.50	37.57	-6.20	31.37	47.00	-15.63	308.50	400.00	Peak
5	367.80	42.30	-5.49	36.81	47.00	-10.19	124.00	400.00	Peak
6	434.50	40.64	-4.88	35.76	47.00	-11.24	63.20	400.00	Peak
7	521.00	47.50	-3.36	44.14	47.00	-2.86	284.90	196.40	QP
8	651.50	43.42	-1.10	42.31	47.00	-4.69	191.10	196.40	Peak
9	781.00	40.90	3.58	44.48	47.00	-2.52	267.80	100.00	QP
10	798.00	40.20	4.20	44.40	47.00	-2.60	88.70	100.00	QP
11	912.00	34.00	3.99	37.99	47.00	-9.01	172.80	100.00	QP
12	969.60	29.13	3.56	32.69	47.00	-14.31	62.20	100.00	Peak

**REMARKS:** The other emission levels were very low against the limit.



<b>Model No.</b>	AMOS-3000	<b>Test Mode</b>	Mode 3
<b>Environmental Conditions</b>	18°C, 60% RH	<b>Test Frequency Range</b>	1000MHz ~ 5000MHz
<b>Antenna Pole</b>	Vertical	<b>Antenna Distance</b>	3m
<b>Detector Function:</b>	Peak/Average	<b>Tested By</b>	Skyman Tsai

Frequency MHz	Corr. Factor (dBuV/m)	Reading		Result		Limit		Margin	
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)
1065.000	-8.00	--	57.98	--	49.98	54.00	74.00	--	-24.02
1305.000	-6.53	56.86	66.70	50.33	60.17	54.00	74.00	-3.67	-13.83
1595.000	-4.65	--	54.63	--	49.98	54.00	74.00	--	-24.02
1920.000	-2.29	41.45	56.83	39.16	54.54	54.00	74.00	-14.84	-19.46
2475.000	-0.02	--	51.42	--	51.40	54.00	74.00	--	-22.60
2605.000	0.65	53.00	63.26	53.65	63.91	54.00	74.00	-0.35	-10.09

- REMARKS:**
1. The other emission levels were very low against the limit.
  2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



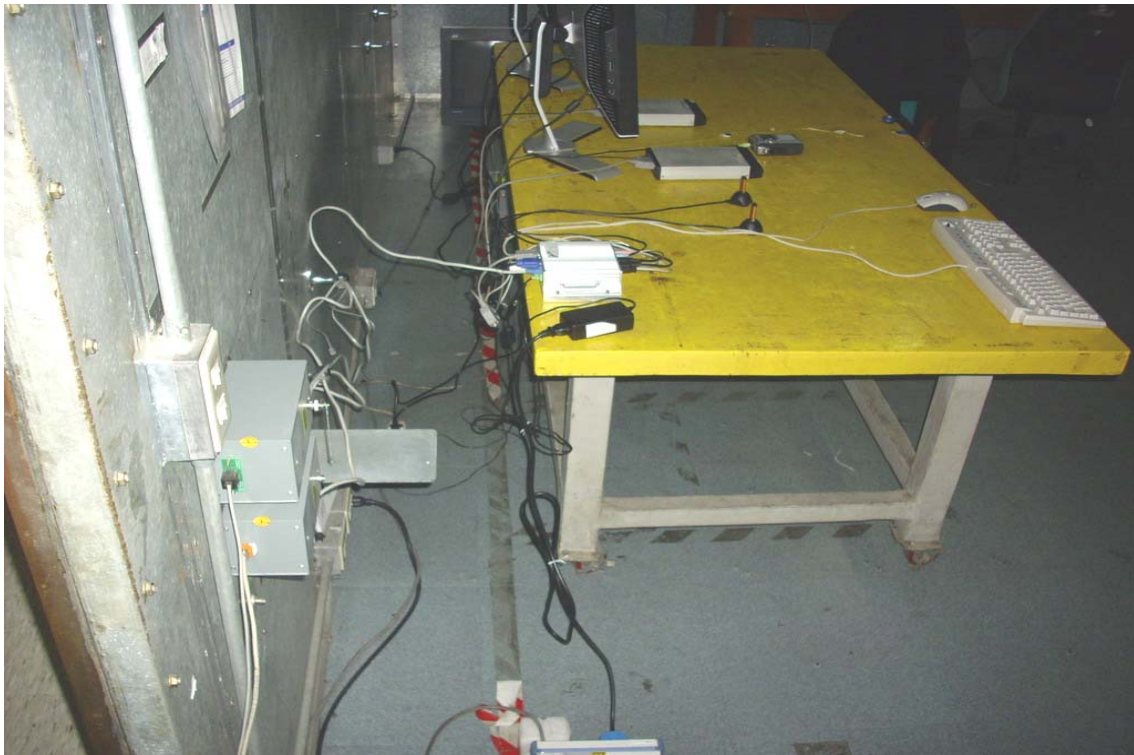
<b>Model No.</b>	AMOS-3000	<b>Test Mode</b>	Mode 3
<b>Environmental Conditions</b>	18°C, 60% RH	<b>Test Frequency Range</b>	1000MHz ~ 5000MHz
<b>Antenna Pole</b>	Horizontal	<b>Antenna Distance</b>	3m
<b>Detector Function:</b>	Peak/Average	<b>Tested By</b>	Skyman Tsai

Frequency MHz	Corr. Factor (dBuV/m)	Reading		Result		Limit		Margin	
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)
1070.000	-7.97	--	61.58	--	53.61	54.00	74.00	--	-20.39
1100.000	-7.79	52.79	61.77	45.00	53.98	54.00	74.00	-9.00	-20.02
1175.000	-7.33	--	58.27	--	50.94	54.00	74.00	--	-23.06
1230.000	-6.99	--	56.25	--	49.26	54.00	74.00	--	-24.74
1305.000	-6.53	59.83	70.74	53.30	64.21	54.00	74.00	-0.70	-9.79
2605.000	0.65	51.75	61.74	52.40	62.39	54.00	74.00	-1.60	-11.61

- REMARKS:**
1. The other emission levels were very low against the limit.
  2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.

## 8 PHOTOGRAPHS OF THE TEST CONFIGURATION

### CONDUCTED EMISSION TEST



**RADIATED EMISSION TEST**

