

Test of: Wireless Access Point

To: FCC Part 15 Subpart B, ICES-003

Test Report Serial No.: MIMO09-U3 Rev A



# Report

from



Test of: Wireless Access Point

To: FCC Part 15 Subpart B, ICES-003

Test Report Serial No.: MIMO09-U3 Rev A

This report supersedes: NONE

**Manufacturer:** Mimosa Networks, Inc.  
469 El Camino Real, Suite 100  
Santa Clara, California 95050  
USA

**Product Function:** Wireless Access Point

**Copy No:** pdf

**Issue Date:** 26th July 2016

## **This Test Report is Issued Under the Authority of:**

MiCOM Labs, Inc.  
575 Boulder Court  
Pleasanton, CA 94566 USA  
Phone: +1 (925) 462-0304  
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[www.micomlabs.com](http://www.micomlabs.com)



TESTING CERT #2381.01

**MiCOM Labs is an ISO 17025 Accredited Testing Laboratory**



**Title:** Wireless Access Point  
**To:** FCC Part 15 Subpart B, ICES-003  
**Report Serial #:** MIMO09-U3 Rev A  
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## **ACCREDITATION, LISTINGS & RECOGNITION**

### **Test Accreditation**

MiCOM Labs, Inc. an accredited laboratory complies with the international standard ISO/IEC 17025. The company is accredited by the American Association for Laboratory Accreditation (A2LA) [www.a2la.org](http://www.a2la.org) test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-01.pdf>



### **Accredited Laboratory**

A2LA has accredited

**MICOM LABS**

Pleasanton, CA

for technical competence in the field of

**Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 4<sup>th</sup> day of February 2016.



Senior Director of Quality & Communications  
For the Accreditation Council  
Certificate Number 2381.01  
Valid to November 30, 2017

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.





## **Recognition**

MiCOM Labs, Inc has widely recognized Electrical testing capabilities. Our international recognition includes Conformity Assessment Body designation by APEC MRA\*\* countries. Our test reports are widely accepted for global type approvals.

Country	Recognition Body	Status	Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Listing #: 102167
Canada	Industry Canada (IC)	FCB	APEC MRA 2	US0159 Listing #: 4143A-2 4143A-3
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	APEC MRA 2	RCB 210
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA	NB 2280
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)	CAB	APEC MRA 1	
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)	CAB	APEC MRA 1	
Singapore	Infocomm Development Authority (IDA)	CAB	APEC MRA 1	
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)	CAB	APEC MRA 1	
Vietnam	Ministry of Communication (MIC)	CAB	APEC MRA 1	

\*\*APEC MRA – Asia Pacific Economic Community Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the APEC member countries.

Phase I - recognition for product testing

Phase II – recognition for both product testing and certification

N/A – Not Applicable

\*\*EU MRA – European Union Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the EU member countries.

\*\*NB – Notified Body

## **Product Certification**

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065. The company is accredited by the American Association for Laboratory Accreditation (A2LA) [www.a2la.org](http://www.a2la.org) test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-02.pdf>



## **Accredited Product Certification Body**

A2LA has accredited

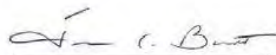
**MICOM LABS**

Pleasanton, CA

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC 17065:2012 *Requirements for bodies certifying products, processes and services*. This accreditation demonstrates technical competence for a defined scope and the operation of a management system.



Presented this 4<sup>th</sup> day of February 2016.



Senior Director of Quality & Communications  
For the Accreditation Council  
Certificate Number 2381.02  
Valid to November 30, 2017

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation.

### **United States of America – Telecommunication Certification Body (TCB)**

TCB Identifier – US0159

### **Industry Canada – Certification Body**

CAB Identifier – US0159

### **Europe – Notified Body**

Notified Body Identifier - 2280

### **Japan – Recognized Certification Body (RCB)**

RCB Identifier – 210

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## Document History

Document History		
Revision	Date	Comments
Draft	5 <sup>th</sup> July 2016	
Draft #2	19 <sup>th</sup> July 2016	
Rev A	26 <sup>th</sup> July 2016	Initial release.

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## 1. TEST RESULT CERTIFICATE

Applicant:	Mimosa Networks, Inc. 469 El Camino Real, Suite 100 Santa Clara, California 95050 USA	Tested By:	MiCOM Labs, Inc. 575 Boulder Court, Pleasanton California, 94566, USA
EUT	Wireless Access Point	Tel:	+1 925 462 0304
Model:	A5-14, A5-18	Fax:	+1 925 462 0306
S/N	2112696984, 2119591877		
Test Date(s):	13th June 2016	Website:	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC Part 15 Subpart B, ICES-003.	EQUIPMENT COMPLIES

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

### Notes:

1. This document reports conditions under which testing was conducted and the results of testing performed.
2. Details of test methods used have been recorded and kept on file by the laboratory.
3. Test results apply only to the item(s) tested.

Approved & Released for MiCOM Labs, Inc. by:



TESTING CERT #2381.01

Graeme Grieve  
Quality Manager MiCOM Labs, Inc.

Gordon Hurst  
President & CEO MiCOM Labs, Inc.

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## **2. REFERENCES AND MEASUREMENT UNCERTAINTY**

### **2.1. Normative References**

REF.	PUBLICATION	YEAR	TITLE
i.	FCC 47 CFR Part 15, Subpart B	2016	Title 47 CFR Part 15, Subpart B; Unintentional Radiators
ii.	ICES-003, Issue 6	2016	Information Technology Equipment (ITE) – Limits and methods of measurement.
iii.	ANSI C63.4	2014	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
iv.	M 3003	Edition 3 Nov Dec. 2012	Expression of Uncertainty and Confidence in Measurements
v.	LAB34	Edition 1 August 2002	The expression of uncertainty in EMC Testing
vi.	ETSI TR 100 028	2001-12	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
vii.	A2LA	Feb 2016	Reference to A2LA Accreditation Status – A2LA Advertising Policy

## **2.2. Test and Uncertainty Procedures**

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.



### 3. PRODUCT DETAILS AND TEST CONFIGURATIONS

#### 3.1. Technical Details

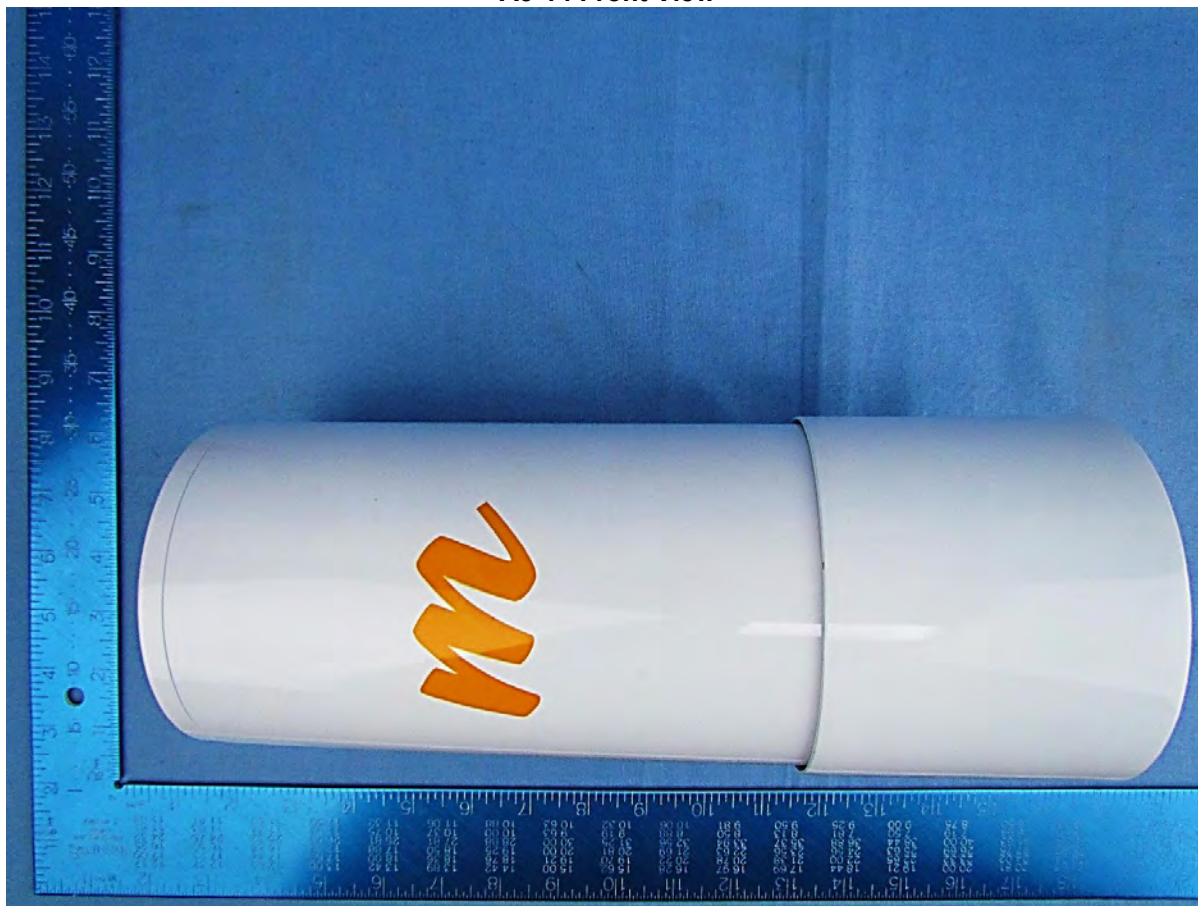
Details	Description
Purpose:	Testing of the Wireless Access Point to FCC CFR 47, Part 15, Subpart B and Industry Canada ICES-003 regulations.
Applicant:	Mimosa Networks, Inc. 469 El Camino Real, Suite 100 Santa Clara, California 95050, USA
Manufacturer:	Mimosa Networks, Inc. 469 El Camino Real, Suite 100 Santa Clara, California 95050, USA
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton, California 94566 USA
Test report reference number:	MIMO09-U3 Rev A
Date EUT received:	1 <sup>st</sup> June 2016
Dates of test (from - to):	13th June 2016
Standard(s) applied:	FCC Part 15 Subpart B, ICES-003
No of Units Tested:	Two
Type of Equipment:	Wireless Access Point
Model:	A5-14, A5-18
Serial Number	A5-14: 2112696984
	A5-18: 2119591877
Software Revision	2.0
Hardware revision	D
Internal Clocks	25MHz, 40MHz, 100MHz, 125Mhz, 400MHz
Installation type:	Fixed installation
Construction/Location for Use:	Indoor only
Operating Temperature Range °C:	-40 to +55 °C
Rated Supply Voltage and Current	PoE Adapter AC 100-240V 50/60 Hz 1.5A Output: DC 56V 0.93A
Equipment Dimensions:	A5-14: 142.2mm diameter x 320.0mm / 5.6"diameter x 12.6" (Diameter x H) A5-18: 142.2mm diameter x 642.6mm / 5.6" diameter x 25.3" (Diameter x H)
Weight:	A5-14: 4 lbs A5-18: 8 lbs
Primary Function:	Wireless Access Point

**Note:** The models A5-14, A5-18 are identical, the difference is in gain of antenna, only the worst case model, A5-14, is presented.

### 3.2. Scope of Test Program

The scope of the test program was to test the A5-14, A5-18 to verify compliance with the emissions requirements of FCC CFR 47 Part15B and Industry Canada ICES-003.

**A5-14 Front View**





**A5-14 Rear View**



**A5-14 Top View**



**A5-14 Bottom View**





**A5-14 Left View**



**A5-14 Right View**





### 3.3. Equipment Model(s) and Serial Number(s)

Type (EUT/Support)	Equipment Description (Including Brand Name)	Mfr	Model No.	Serial No.
EUT	Wireless Access Point	Mimosa Networks, Inc.	A5-14	2112696984
			A5-18	2119591877
Support	PoE Injector IP: 100-240 V <sub>AC</sub> 50/60 Hz OP: 56V 0.93A	Mimosa Networks, Inc.	502-00002	P42900690A1
Support	Laptop	Dell	Latitude D620	N/A

### 3.4. Cabling and I/O Ports

Port Type	Port Description	Qty	Screened (Yes/ No)	Length
Ethernet	Ethernet PoE Port	1	NO	> 3m

### 3.5. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

### 3.6. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE.



## **4. TEST SUMMARY / SETUP**

### **List of Measurements**

The following table represent the list of measurements required under the FCC CFR 47 part 15 and Industry Canada ICES-003 standards;

### **TABLE OF REQUIRED TESTS – Emissions**

Test Standard	Description	Limits	Compliance
FCC Part 15B	Radiated Emissions	Class A	Complies
FCC Part 15B	Conducted Emissions - AC power	Class A	Complies

**Note 1:** Test results reported in this document relate only to the items tested.

**Note 2:** *Section 3.5 Equipment Modifications highlights the equipment modifications that were required to bring the product into compliance with the above test matrix.*



## **5. TEST RESULTS**

### **5.1. Radiated Spurious Emissions – Digital Apparatus**

#### **Standard Reference**

FCC, Part 15 Subpart B §15.109  
Industry Canada ICES-003 Section 6.2

#### **Test Procedure**

Testing 30 – 6,000 MHz was performed in an anechoic chamber using a CISPR compliant receiver. Preliminary radiated emissions were measured on every azimuth and with the receiving antenna in both horizontal and vertical polarizations. To further maximize emissions the receive antenna was varied between 1 and 4 meters. The emissions are recorded with receiver in peak hold mode.

Emissions nearest the limits were chosen for maximization and formal measurement using a CISPR Compliant receiver. Emissions from 30 MHz – 1000 MHz are measured utilizing a CISPR compliant quasi-peak detector with a tuned receiver, using a bandwidth of 120 kHz. Emissions above 1000 MHz are measured utilizing a CISPR compliant average detector with a tuned receiver, using a bandwidth of 1 MHz. Only the highest emissions relative to the limit are listed.



### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

$$FS = R + AF + CORR - FO$$

FS = Field Strength

R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor

$$CORR = \text{Correction Factor} = CL - AG + NFL$$

CL = Cable Loss

AG = Amplifier Gain

FO = Distance Falloff Factor

NFL = Notch Filter Loss or Waveguide Loss

#### Field Strength Calculation Example:

Given receiver input reading of 51.5 dB $\mu$ V; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 \text{ dB}\mu\text{V/m}$$

Conversion between dB $\mu$ V/m (or dB $\mu$ V) and  $\mu$ V/m (or  $\mu$ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (\mu V/m))}$$

$$40 \text{ dB}\mu\text{V/m} = 100 \mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250 \mu\text{V/m}$$



## FCC Spurious Emissions Limits

### FCC, Part 15 Subpart B §15.109 Spurious Emissions Limits

Except for Class A digital device, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values.

Frequency (MHz)	Field Strength @ 3m (μV/m)	Measurement Distance (meters)	Field Strength (dBμV/m) @ 3m
30-88	100	3	40.0
88-216	150	3	43.5
216-960	200	3	46.0
Above 960	500	3	54.0

Field Strength of radiated emissions for a Class A digital device are as follows.

Frequency (MHz)	Field Strength @ 10m (μV/m)	Measurement Distance (meters)	Field Strength (dBμV/m) @ 3m
30-88	90	3	49.5
88-216	150	3	54.0
216-960	210	3	57.0
Above 960	300	3	60.0

### Laboratory Measurement Uncertainty for Spectrum Measurement

<b>Measurement Uncertainty</b>	+5.6/ -4.5 dB
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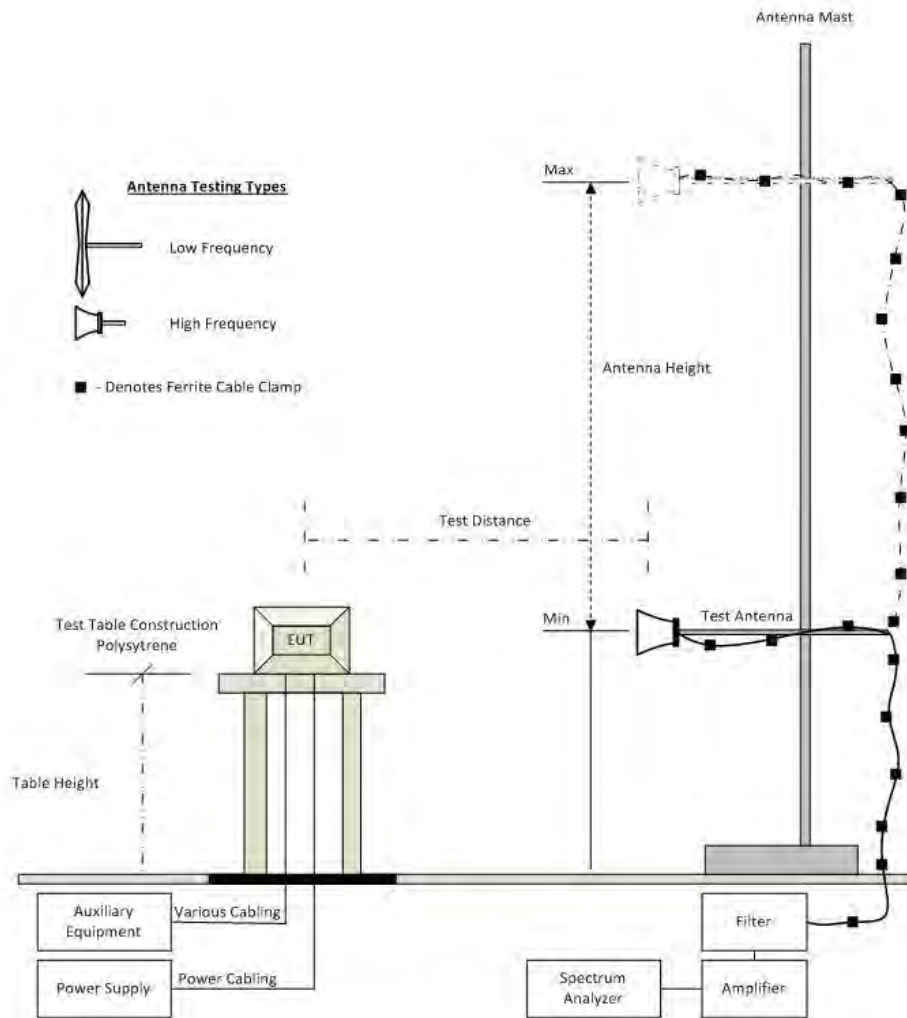
### Traceability

<b>Method</b>
Work instruction WI-EMC-07: Radiated Emissions Test

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## Radiated Emission Measurement Setup



**Radiated Emission Test Setup**

A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.





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Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
158	Barometer/Thermometer	Control Co	4196	E2846	01 Dec 2016
170	Video System Controller for Semi Anechoic Chamber	Panasonic	WV-CY101	04R08507	Not Required
287	Rohde & Schwarz 40 GHz Receiver	Rhode & Schwarz	ESIB40	100201	15 Aug 2016
338	Sunol 30 to 3000 MHz Ant	Sunol	JB3	A052907	15 Aug 2016
341	900MHz Notch Filter	EWT	EWT-14-0199	H1	18 Aug 2016
342	2.4 GHz Notch Filter	EWT	EWT-14-0203	H1	18 Aug 2016
377	Band Rejection Filter 5150 to 5880MHz	Microtronics	BRM50716	034	18 Aug 2016
396	2.4 GHz Notch Filter	Microtronics	BRM50701	001	18 Aug 2016
397	Amp 10 - 2500MHz	MiCOM Labs	Amp 10 - 2500 MHz	NA	10 Oct 2016
399	ETS 1-18 GHz Horn Antenna	ETS	3117	00154575	10 Oct 2016
406	Amplifier for Radiated Emissions	MiCOM Labs	40dB 1 to 18GHz Amp	0406	Not Required
410	Desktop Computer	Dell	Inspiron 620	WS38	Not Required
411	Mast/Turntable Controller	Sunol Sciences	SC98V	060199-1D	Not Required
412	USB to GPIB Interface	National Instruments	GPIB-USB HS	11B8DC2	Not Required
413	Mast Controller	Sunol Science	TWR95-4	030801-3	Cal when used
414	DC Power Supply 0-60V	HP	6274	1029A01285	Not Required

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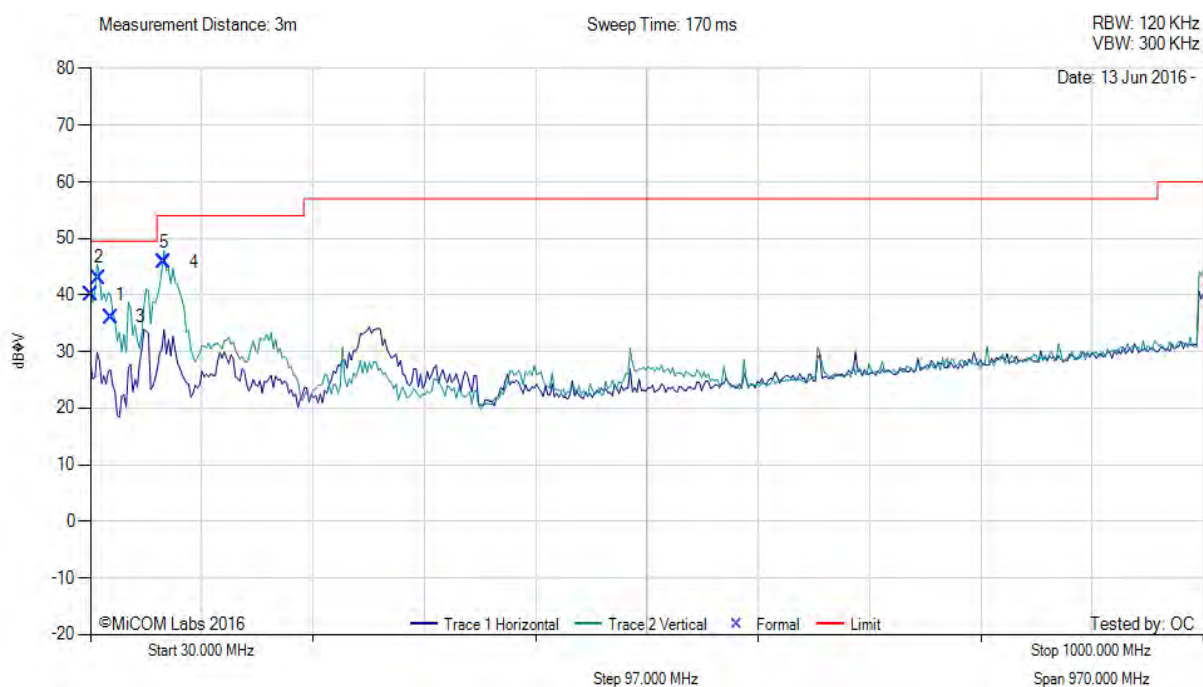
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### Measurement Results: Radiated Emissions; 0.03 – 1 GHz

<b>Model Number</b>	A5-14, S/N: 2112696984	<b>Engineer</b>	OC
<b>Variant</b>	Digital Emissions 120VAC, 60Hz	<b>Temp (°C)</b>	22
<b>Freq. Range</b>	30 – 1000 MHz	<b>Rel. Hum.(%)</b>	45
<b>Power Setting</b>	NA	<b>Press. (mBars)</b>	1003
<b>Antenna</b>	N/A		
<b>Test Notes 1</b>	PoE powered: Manu.: Mimosa Networks, Model: P42900690A1		
<b>Test Notes 2</b>	Class A Limits		



Variant: Digital Emissions



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	30.57	47.23	3.43	-10.61	40.05	MaxQP	Vertical	100	117	49.5	-9.5	Pass
2	37.51	55.59	3.48	-16.06	43.01	MaxQP	Vertical	100	184	49.5	-6.5	Pass
3	47.75	54.88	3.56	-22.34	36.10	MaxQP	Vertical	102	26	49.5	-13.4	Pass
4	94.33	65.00	3.84	-23.03	45.81	MaxQP	Vertical	100	197	54.0	-8.2	Pass
5	94.34	65.04	3.84	-23.03	45.85	MaxQP	Vertical	105	215	54.0	-8.2	Pass

**Test Notes:** 120V 60Hz. Model: A5-14, S/N: 2112696984. PoE configuration, S/N: P42900690A1. EUT set to ping laptop continuously.

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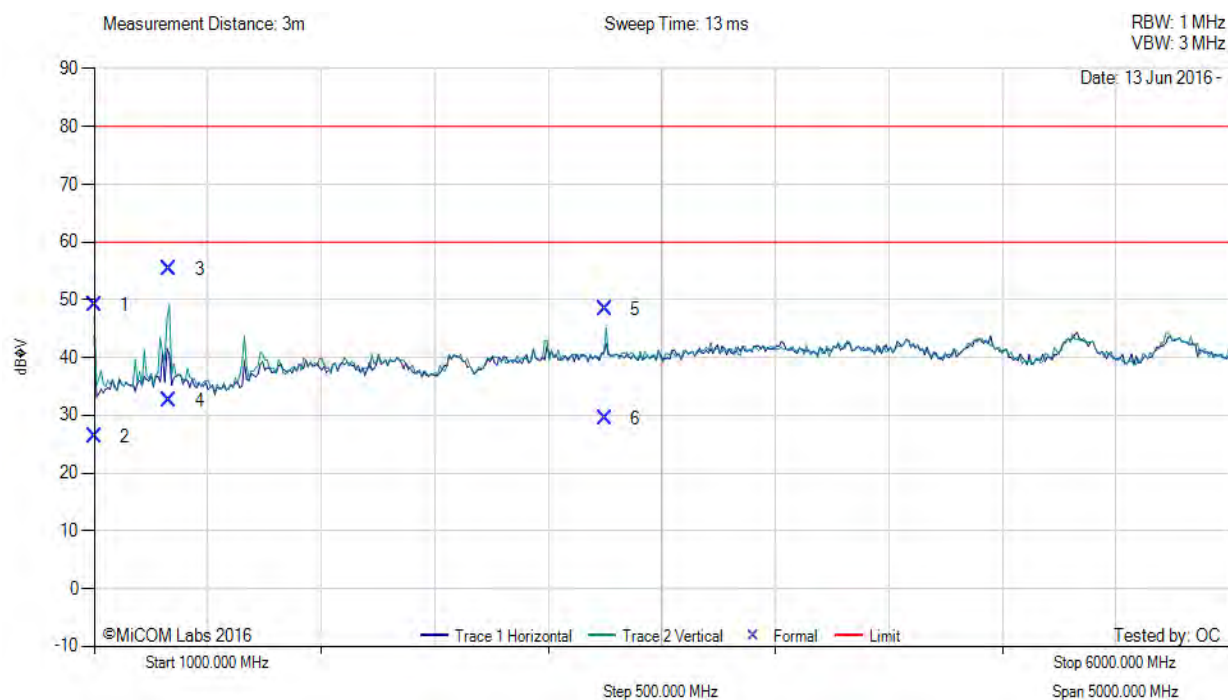
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### Measurement Results: Radiated Emissions; 1-6 GHz

<b>Model Number</b>	A5-14, S/N: 2112696984	<b>Engineer</b>	OC
<b>Variant</b>	Digital Emissions 120VAC, 60Hz	<b>Temp (°C)</b>	22
<b>Freq. Range</b>	1000 – 6000 MHz	<b>Rel. Hum.(%)</b>	45
<b>Power Setting</b>	NA	<b>Press. (mBars)</b>	1003
<b>Antenna</b>	N/A		
<b>Test Notes 1</b>	PoE powered: Manu.: Mimosa Networks, Model: P42900690A1		
<b>Test Notes 2</b>	Class A Limits		



Variant: Digital Emissions



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	PoI	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	63.97	2.03	-16.95	49.05	Max Peak	Vertical	100	141	60.0	-11.0	Pass
2	1000.00	41.21	2.03	-16.95	26.29	Max Avg	Vertical	100	141	80.0	-53.7	Pass
3	1331.21	68.14	2.24	-15.02	55.36	Max Peak	Vertical	100	162	60.0	-4.6	Pass
4	1331.21	45.29	2.24	-15.02	32.51	Max Avg	Vertical	100	162	80.0	-47.5	Pass
5	3249.35	56.63	3.03	-11.26	48.40	Max Peak	Vertical	184	251	60.0	-11.6	Pass
6	3249.35	37.67	3.03	-11.26	29.44	Max Avg	Vertical	184	251	80.0	-50.6	Pass

**Test Notes:** 120V 60Hz. Model: A5-14, S/N: 2112696984. PoE configuration, S/N: P42900690A1. EUT set to ping laptop continuously.

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## **5.2. AC Mains Conducted Emissions**

### **Standard Reference**

FCC, Part 15 Subpart C §15.107

### **Scope**

This test assesses the ability of the EUT to limit its internal noise from being present on the AC mains power input/output ports.

### **Test Procedure**

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.

## Limits

The equipment shall meet the class B limits given in FCC Part 15: 107. Alternatively, for equipment intended to be used in non-residential environments, the class A limits given in FCC Part 15: 107 may be used.

Limits for conducted disturbance at the mains ports of class B ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50
Note 1	* Decreases with the logarithm of the frequency	
Note 2	* The lower limit applies at the boundary between frequency ranges	

Limits for conducted disturbance at the mains ports of class A ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	79	66
0.5–30	73	60
Note 1	* The lower limit shall apply at the transition frequency.	

## Traceability

All conducted emission measurements are traceable to national standards. The uncertainty of measurement at a confidence level of not less than 95 %, with a coverage factor of k=2, in the range 9 kHz – 30 MHz (Average & Quasi-peak) is  $\pm 2.64$  dB.

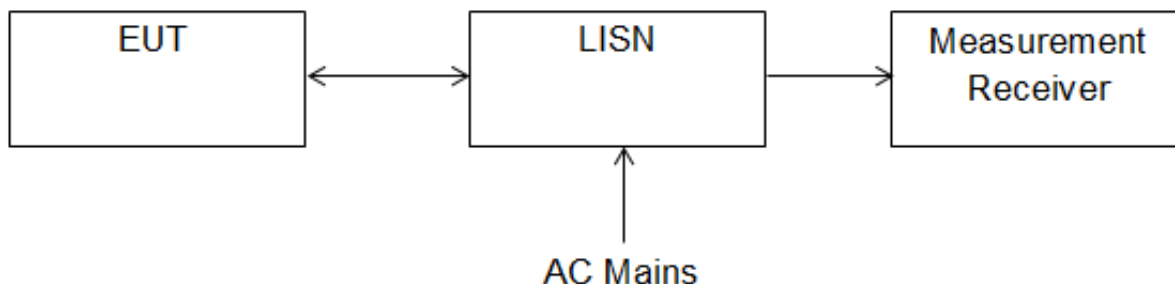
### Laboratory Measurement Uncertainty

Measurement uncertainty	$\pm 2.64$ dB
-------------------------	---------------

### Method

Measurements were made per work instruction WI-EMC-01 'Measurement of Conducted Emissions'

## AC Mains Conducted Emissions Test setup



A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
158	Barometer/Thermometer	Control Company	4196	E2846	01 Dec 2016
184	Pulse Limiter	Rhode & Schwarz	ESH3Z2	357.8810.52	27 Oct 2016
190	LISN (two-line V-network)	Rhode & Schwarz	ESH3Z5	836679/006	29 Oct 2016
193	Receiver 20 Hz to 7 GHz	Rhode & Schwarz	ESI 7	838496/007	17 Jun 2016
307	BNC-CABLE	Megaphase	1689 1GVT4	15F50B002	27 Oct 2016
316	Dell desktop computer workstation with Vasona	Dell	Desktop	WS04	Not Required
351	Data Impedance Stabilization Network	Teseq	ISN T800	24809	30 Nov 2016
372	AC Variable PS	California Instruments	1251P	L06951	Cal when used
378	Rohde & Schwarz 40 GHz Receiver with Generator	Rhode & Schwarz	ESIB40	100107/040	04 Aug 2016
388	LISN (3 Phase) 9kHz - 30MHz	Rohde & Schwarz	ESH2-Z5	892107/022	30 Oct 2016
ADAPT SMA#1	SMA Cable	Megaphase	SMA Cable #1	None	Cal when used

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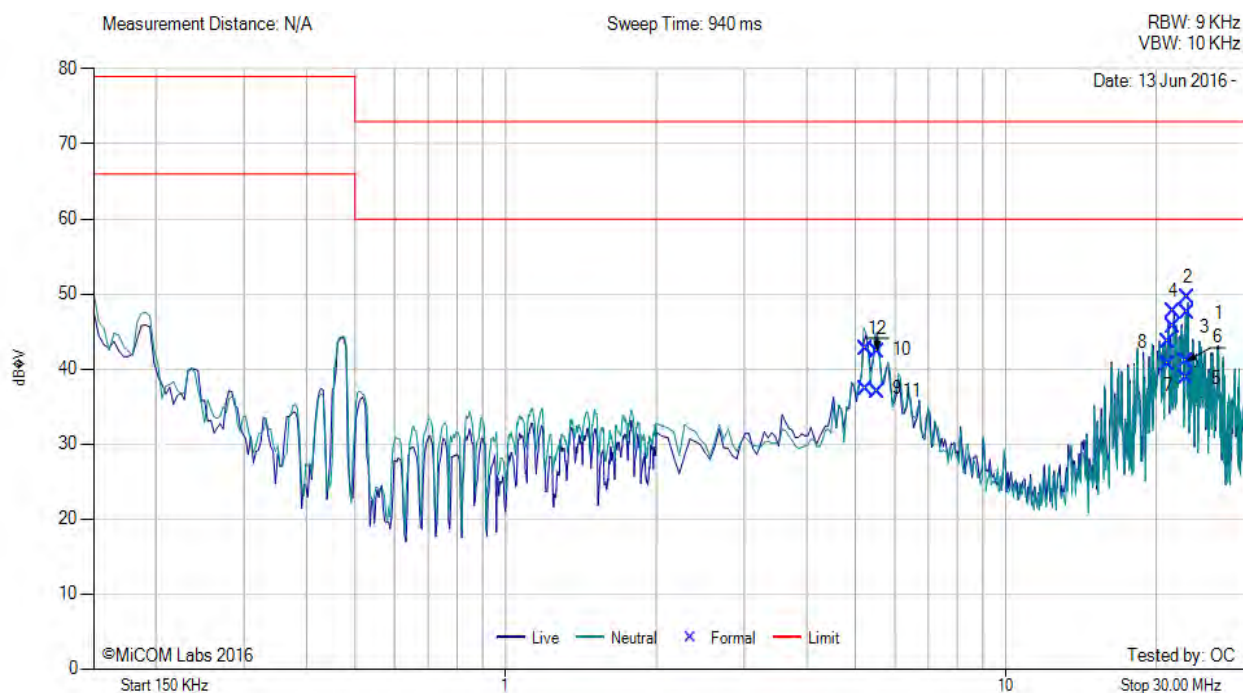


## Measurement Results

<b>Model Number</b>	A5-14, S/N: 2112696984	<b>Engineer</b>	OC
<b>Variant</b>	AC Wireline 120VAC, 60Hz	<b>Temp (°C)</b>	22
<b>Freq. Range</b>	30 – 1000 MHz	<b>Rel. Hum.(%)</b>	45
<b>Power Setting</b>	NA	<b>Press. (mBars)</b>	1003
<b>Antenna</b>	N/A		
<b>Test Notes 1</b>	PoE powered: Manu.: Mimosa Networks, Model: P42900690A1		
<b>Test Notes 2</b>	Class A Limits		



Variant: AC Line



Num	Frequency MHz	Raw dBμV	Cable Loss	Factor dB	Total Correction dBμV	Corrected Value dBμV	Measurement Type	Line	Limit dBμV	Margin dB	Pass /Fail
1	23.129	35.99	0.64	10.85	11.49	47.48	Max Avg	Live	60.0	-12.5	Pass
2	23.129	37.99	0.64	10.85	11.49	49.48	Max Qp	Live	73.0	-23.5	Pass
3	21.663	34.28	0.65	10.72	11.37	45.65	Max Avg	Live	60.0	-14.4	Pass
4	21.663	36.25	0.65	10.72	11.37	47.62	Max Qp	Live	73.0	-25.4	Pass
5	22.945	27.34	0.64	10.85	11.49	38.83	Max Avg	Neutral	60.0	-21.2	Pass
6	22.945	29.55	0.64	10.85	11.49	41.04	Max Qp	Neutral	73.0	-32.0	Pass
7	21.112	29.29	0.65	10.68	11.33	40.62	Max Avg	Live	60.0	-19.4	Pass
8	21.112	32.27	0.65	10.68	11.33	43.60	Max Qp	Live	73.0	-29.4	Pass
9	5.260	27.00	0.29	10.11	10.40	37.40	Max Avg	Neutral	60.0	-22.6	Pass
10	5.260	32.26	0.29	10.11	10.40	42.66	Max Qp	Neutral	73.0	-30.3	Pass
11	5.532	26.57	0.31	10.11	10.42	36.99	Max Avg	Live	60.0	-23.0	Pass
12	5.532	31.88	0.31	10.11	10.42	42.30	Max Qp	Live	73.0	-30.7	Pass

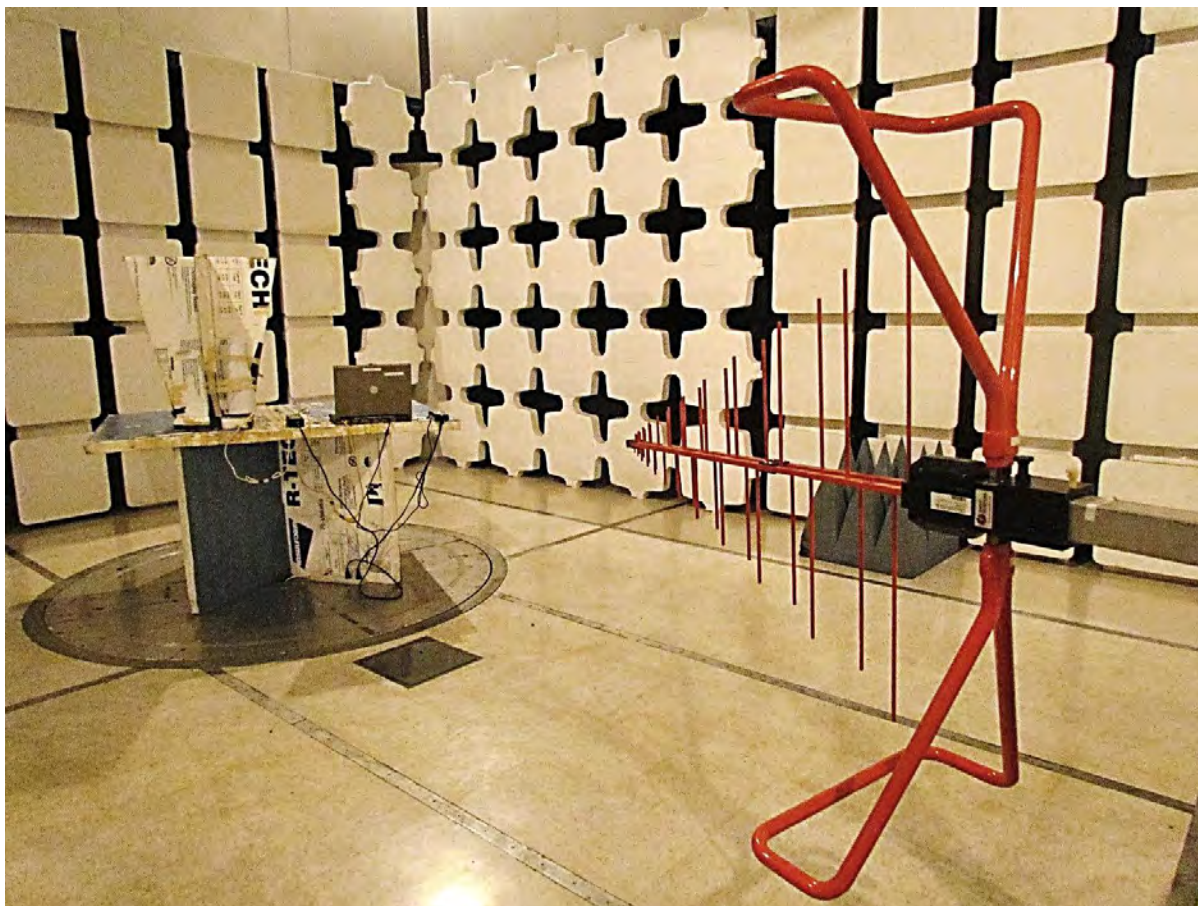
**Test Notes:** 120V 60Hz. Model: A5-14, S/N: 2112696984. PoE configuration, S/N: P42900690A1. EUT set to ping laptop continuously.

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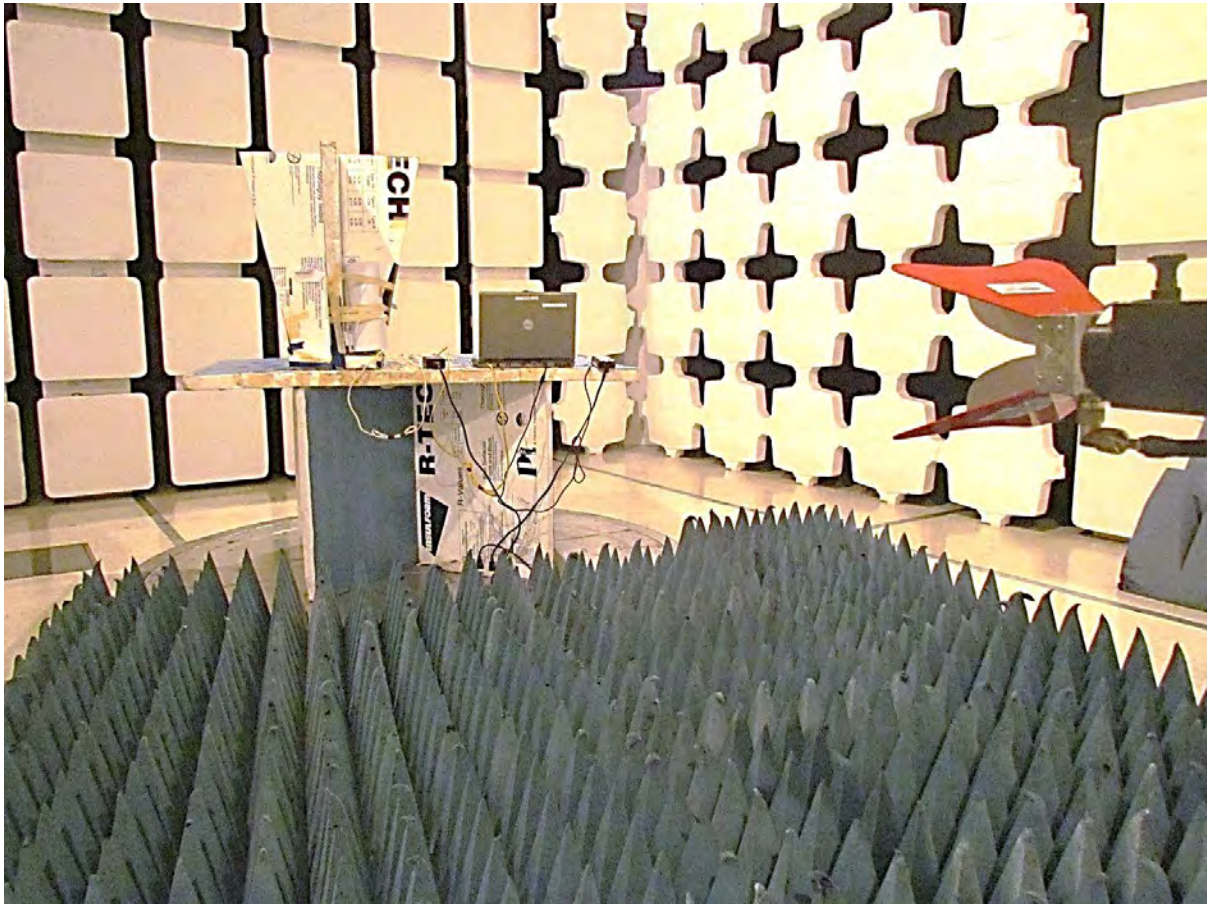
## 6. PHOTOGRAPHS

**Radiated Emissions Setup – 30-1000 MHz Front**





**Radiated Emissions Setup – 1-6 GHz Front**



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**AC Wireline Emissions Setup - Front**





**AC Wireline Emissions Setup - Side**





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