

Report No.: E4/2017/80016 Issued Date: September 22, 2017

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Antenna Test Report

Report No.: E4/2017/80016
Test Plan: Non-compliance with ISO17025

Applicant Name: Kaz USA, Inc (Helen of Troy, Home and Health)
Manufacturer Name: AViTA Corporation

Product Name: ActivScan9 – Upper Arm Blood Pressure Monitor Model Number: BUA7200

Measurements performed at SGS Taiwan Ltd.
Hwaya District, Taiwan

Issued Date: September 22, 2017

	Name	Date & Signature	
Prepared by:			
	Shawn Yen	11 V	
	Asst. Supervisor	Shawh Yen September 22, 2017	
Approved by:			
	Dragon Wu	h	
		Dragon Wu	
	Asst. Manager	September 22, 2017	



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Measurement System Information

General Information

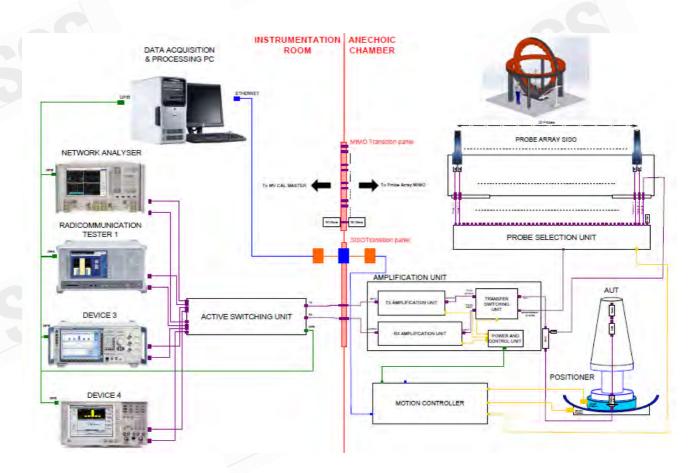
Testing Condition:

Temperature: 22±3°C

Humidity: <80%

Measurement Facility:

- Measurement Chamber: Satimo 3D fully anechoic chamber and its measuring system (Stargate-24-L)
- Base Station Simulator: Anritsu MT8820C (or R&S CMU200)
- Network Analyzer: Agilent E5071C



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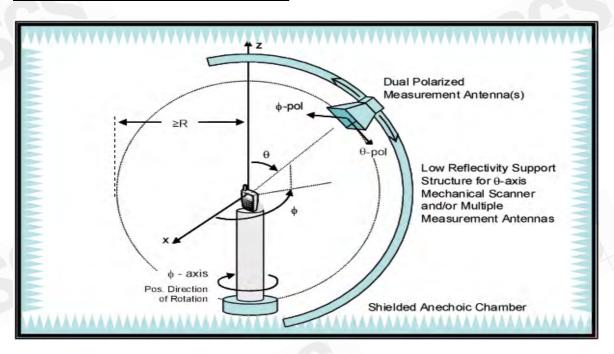


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Measurements are performed in a Satimo **Stargate-24-L** with the StarAct interface for a base station simulator. The **Stargate-24-L** has 23 probe antennas mounted with equal spacing on a circular arch. Electronic switching of the probe antennas provides outstanding measurement speed. The geometry of the setup, with only a Styrofoam column within 1.6 meters of the EUT, ensures minimum interference and low ripple on the measured radiation patterns. The DUT is placed on top of the pedestal, in the center of the system.

Typical Setup for Satimo Stargate-24-L:



Instruments View



Inside View



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Testing Laboratory: Identification of the Responsible Test Laboratory.

OTA Laboratory:

SGS Taiwan Ltd. Electronics & Communication Laboratory

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City,

Taiwan 24803.

Telephone: +886 2 2299 3279 +886 2 2298 0488 Fax: Internet: http://www.tw.sgs.com

Testing Location:

No. 2, Keji 1st Rd., Hwaya Technology Park, Guishan District, Taoyuan City, Taiwan 33383.

Details of Applicant:

Applicant's name:	Kaz USA, Inc (Helen of Troy, Home and Health)	
Applicant's address:	400 Donald Lynch BLVD suite 300	
	Marlborough, MA 01752	
Contact person:	Jimmy Zanone (Program Manager)	
Telephone:	+41 786631746 (cell phone) / +41 216440127 (office	
	phone)	
Fax:	n/a	
E-mail:	Jimmy.zanone@kaz.com	

Details of Manufacturer:

Manufacturer's name:	AViTA Corporation
Manufacturer's address:	9F, No.78, Sec. 1,Kwang-Fu Road, San-Chung
	District, New Taipei City 241, Taiwan (R.O.C)
Contact person:	StevenJhou
Telephone:	886-2-85121568#5306
Fax:	886-2-85121347
E-mail:	steven_jhou@avita.com.tw

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Device Description:	ActivScan9 – Upper Arm Blood Pressure Monitor	
Device Manufacturer:	Kaz USA, Inc (Helen of Troy, Home and Health)	
Device Model:	BUA7200	
Hardware Version:	TBD	
Software Version:	TBD	
FCC ID:	TBD	
Frequency Range:	2400MHz ~ 2500MHz	
	Step size: 10MHz	
Antenna Type:	Internal antenna	

Duration of Tests:

Sample Receive Date:	2017-08-23
Test Starting Date:	2017-08-23
Test Ending Date:	2017-08-23
Report Issued Date:	2017-09-22

Photographs of EUT:

Front View



Back View



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Equipment Summary Sheet

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Universal Radio Communication tester	Anritsu	MT8820C	2016/10/14	2017/10/14
Network Analyzer	Agilent	E5071C	2016/10/17	2017/10/17
Sleeve Dipole	Satimo	SD740	2016/11/02	2017/11/02
Dual Ridge Horn	Satimo	SH800	2017/08/02	2018/08/01
Stargate-24-L probe array	Satimo	Stargate-24-L	2016/11/24	2017/11/24
Measurement software	Satimo	SPM V1.8.2	N/A	N/A

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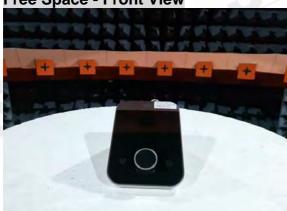
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Antenna Gain and Efficiency

BUA7200			
Freq(MHz)	Peak. dBi	Efficiency	Average . dBi
2400.00	-0.12	27.05%	-5.68
2410.00	-0.09	25.65%	-5.91
2420.00	-0.10	25.65%	-5.91
2430.00	0.24	26.49%	-5.77
2440.00	0.45	26.61%	-5.75
2450.00	0.63	27.59%	-5.59
2460.00	0.69	27.15%	-5.66
2470.00	0.62	28.59%	-5.44
2480.00	0.84	27.62%	-5.59
2490.00	0.81	28.18%	-5.50
2500.00	0.76	27.01%	-5.68

Test Setup

Free Space - Front View



Free Space - Side View



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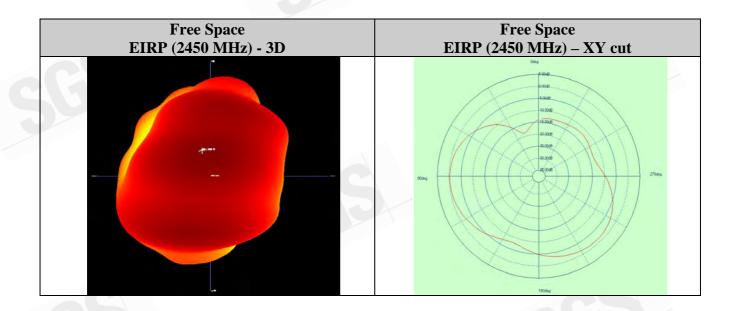
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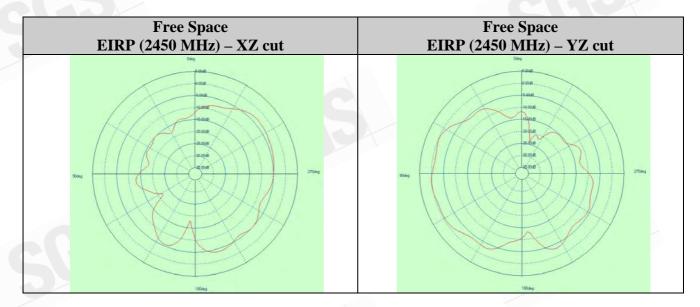


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Antenna 3D Plot Matrix

All plots in this section show the total EIRP (EIRP θ + EIRP ϕ) with the +x-axis pointing out of the page, +y-axis pointing right, and +z-axis pointing up.





End of Report

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