

Ref No: S123251

Certificate of Conformance

Issued to: Upstate Medical Physics

1290 Blossom Dr. Victor, NY 14564

Equipment Description	Model		S/N
Accu-Gold Digitizer Module	AGDM+		48-0690
Accu-Gold Wifi Module	AGNUGGET	16	51-0170
Accu-Gold Light Sensor	AGLS		01-0210
Accu-Gold Multi-Sensor	AGMS-DM+		43-0559

The equipment identified above has been calibrated and tested using Radcal calibration and acceptance procedure PP1102, Radcal Quality Manual PP1007, Radcal Policy and Procedure PP1038, PI1045, PI1055 and other related documents. The equipment has been found to conform in all respects. These test procedures are designed to ensure that the tested equipment meets or exceeds all aspects of Radcal's published product specifications and requirements. Radcal is an ACLASS accredited calibration lab that meets the requirements of ISO 17025 and ANSI/NCLS Z540-1, cert number AC-1553.

All measurements performed during the testing employ equipment traceable to NIST or another recognized National Laboratory such as Physikalisch-Technische Bundesansalt (PTB).

For additional information please refer to Radcal's Product note: "The Importance of Conformance Testing". Radcal recommends revalidation in 12 months.

Certificate Issue Date

06-Mar-18

Authorized Representative

Radcal® CORPORATION

426 WEST DUARTE ROAD MONROVIA, CA 91016 - USA TEL: 626.357.7921 - FAX: 626.357.8863 EMAIL: service@radcal.com WEB: www.radcal.com

Report No: 123251MAL

MQSA⁽¹⁾ Certificate of Calibration

Issued To: Upstate Medical Physics 1290 Blossom Dr.

Victor, NY 14564

Equipment DescriptionAccu-Gold Digitizer Module
Accu-Gold Multi-Sensor

Model AGDM+ AGMS-DM+ **S/N** 48-0690 43-0559 Asset No. N/A N/A

Condition of Equipment As-Left:

In Tolerance

Remarks: Prior to calibration, the equipment was examined and found to be in good condition and performed in accordance with the manufacturer's specifications with the exceptions listed below:

1. None

The equipment identified above has been calibrated and tested using standard Radcal calibration and acceptance procedures in accordance with Radcal Quality Manual PP1007, 4600131 - CertCal - Mammo Sensor.XLT Rev:E and technical requirements contained in the customer's order. These procedures are designed to ensure that the tested equipment meets or exceeds the stated specifications and the requirements of ANSI/NCLS Z540-1-1994.

(1) See MQSA Advisory Note attached.

All measurements performed during the testing employ equipment traceable to NIST or another recognized National Laboratory such as Physikalisch-Technische Bundesansalt (PTB). All calibration results included with this certificate were recorded at the time of measurement and shall not imply anything about the instrument's future stability. This must be determined from previous historical data.

Calibration Date: 6 March 2018
Date of Report 6 March 2018

Interval, as defined by MQSA: 24 months after date of calibration

Calibration Due: 6 March 2020

Calibration Tech.:

By:

Authorized Reviewers E. Macintosh / M. Bryant



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Measurement Test Conditions

A Lorad M-II Mammographic X-ray generator equipped with Molybdenum target and a beryllium window x-ray tube was used as the source of the required mammographic x-ray beam. The generator ripple is less than 1 kV. Filters were added to produce the required beam (see data). The output of the generator was measured with a Radcal Dynalyzer to.1%. All reported kVp, mA and time measurement results have an uncertainty of better than ±1% at the 95% confidence level. Dose measurements were made using the substitution method and normalized with a reference at the 95% confidence level.

Conditions of Measurement

Temperature: 23.3 °C Pressure: 100.53 kPa Humidity: 22%

NOTE: All dose measurements were normalized to 22°C, 101.3 kPa.

"CF" = correction factor and True Reading = CF x Reading

All exposures were made with the DUT oriented perpendicular to the beam. The beam is collimated to not expose the chamber stem (if applicable).

All Multi-Sensor readings were captured with: Accu-Gold 2.40.2

Exposure Properties

	ISO Beam RQR-M-3	Added Filtration (µm Mo) 32.6	First HVL (mm Al) 0.361	Set kV	Avg. Current mA	Avg. Time ms	Distance (Perp.)
١.		02.0	0.501	30.4	28.0	406	48 cm

Calibration Results

Exposure #	Standard Dose mGy	DUT Dose mGy	DUT CF
1	3.173	3.131	1.013
2	3.173	3.133	1.013
3	3.172	3.132	1.013

Ava i	3.173	3.132	4.040
, , , g.	0.173	J. I J∠	1.013

Service Report

Ref No: S123251

Received: 23-Feb-18

The equipment was tested for conformance with Radcal specifications using applicable Conformance test procedures. These procedures include inspection, operation with an x-ray machine and electrical test. The results are summarized below:

Model Number	Serial Number	Description	Meets Mfr Spec	Spec limit (±)	Cal Date
AGDM+	48-0690	Accu-Gold Digitizer Module	Yes	Pass/Fail	06-Mar-18
AGNUGGET	51-0170	Accu-Gold Wifi Module	Yes	Pass/Fail	06-Mar-18
AGLS	01-0210	Accu-Gold Light Sensor	Yes	Pass/Fail	06-Mar-18
AGMS-DM+	43-0559	Accu-Gold Multi-Sensor	Yes	Pass/Fail	06-Mar-18

Service requested:

Perform conformance test, inspection and issue certificate.

Service performed:

Upon receipt, the equipment met manufacturer's specifications.

Added 3mm WAI and RhCu calibration to the AGMS-DM+ sensor.

AGMS-DM+ has MQSA Certifide Calibration. Report number 123251MAL.

Issued Certificate of Conformance.