S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION

S001A

Issued to: DIV20 B168 NARASI SRIDAR Device No: 1880

Manufacturer: ORION Model: EA920

Nomenclature: PH METER

Serial Number: S001A SwRI No: NONE

Remarks

Accuracy: MFG SPEC Procedure: MFG

ENVIRONMENT

Temperature: 74 Humidity: 40 Location: ROOM A11 B68 SWRI

CONCLUSION

Tolerance/Remarks: Received in tolerance, no adjustments made

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

Signed Thomas J. Harrison

Calibration Date: 10/05/92

Record Number: 00009875 Next Calibration Due: ~~04/05/93~~ TJH 10-5-93

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

Device Serial No: S001A Calibration Date: 10/05/92

STANDARDS

Standard No: 115 Manufacturer: HEWLETT PACKARD Model: 3456A
Nomenclature: DIGITAL VOLTMETER
Serial No: 2201A08306 Cal.Due: 11/06/92 Cal.Rec.No: 00009125

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION

Issued to: DIV20 B57 NARASI SRIDHAR Device No: 1880

Manufacturer: ORION Model: EA920

Nomenclature: PH METER

Serial Number: S001A SwRI No: NONE Cal interval 12 Mo.

Remarks

Accuracy: SEE ATTACH Procedure: MFG

ENVIRONMENT

Temperature: 70 Humidity: 51 Location: ROOM A11 B68 SWRI

CONCLUSION

Tolerance/Remarks: Received in tolerance, no adjustments made

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

Signed Arthur O'Connor

Calibration Date: 10/13/93

Cal interval: 12 Months

Record Number: 00012500 Next Calibration Due: 10/13/94

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

Device Serial No: S001A Calibration Date: 10/13/93

STANDARDS

Standard No: 132 Manufacturer: JOHN FLUKE Model: 5100B
Nomenclature: CALIBRATOR
Serial No: 2730017 Cal.Due: 10/23/93 Cal.Rec.No: 00010981

SPECIFICATIONS

Orion EA 920

Ranges

pH: −2.000 to +19.999

Concentration: .00001 to 99900 with three significant digits

Absolute mV: −1999.9 to +1999.9

Relative mV: −1999.9 to +1999.9

Temperature: −10.0 to +110.0°C
O_2: −2.000 to +19.999 ppm

Relative Accuracy

pH: ±0.002

Concentration: ±1 significant digit

mV: ±0.1 or 0.05% of ΔE whichever is greater

Temperature: ±0.4°C

O_2: ±0.002 ppm

Repeatability

pH: ±0.002

Concentration: ±1 significant digit

mV: ±0.1 mV or 0.05% of ΔE whichever is greater

Temperature: ±0.4°C

O_2: ±0.002

Temperature Compensation

Automatic with ATC probe or manual over the range of −10.0°C to +110.0°C

Autocalibration

pH buffers 4.01, 7.00, 10.01

Autocalibration Span

±0.5 pH for autocalibration values

Display

Custom LCD, 5 digit with floating decimal, selection of display resolution, .1, .01, .001 in pH mode or 1, 2, or 3, significant digits in concentration mode

Keypad

7 keys with 6 secondary functions. Audible key feedback

Stability Indication

READY displays when electrode input potential is stable

Inputs

Two sensing electrode inputs: BNC connector

Two reference: Standard pin-tip

Temperature: Banana plugs

Auxiliary power: For future expansion

Outputs

RS-232C for interfacing with digital printers and computers

Recorder: 0-1999.9 mV (1 to 1 ratio of the Absolute mV measured)

Karl Fischer: −10μA polarizing current

Input Impedance

$>10^{13}$ ohms

Power Requirements

100/120/220/240V (±10%) user selectable, 50/60 Hz, 20 watts

Ambient Temperature/Humidity

10° to 35°C, 5% to 80% maximum relative humidity, noncondensing

Instrument Drift

<50μV/°C change in the temperature of the instrument

Case

Splash resistant, chemical resistant housing

Specifications subject to change without notice.

SOUTHWEST RESEARCH INSTITUTE

Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION
01/10/95

Issued to: NARASI SRIDHAR DIV20 ,B57
Manufacturer: ORION
Nomenclature: PH METER
Serial Number: S001A

Asset Number: 001880
Model Number: EA920

SwRI Capital Number: NONE

ENVIRONMENTAL CONDITIONS

Temperature: 69.0F

Relative Humidity: 39 %

CALIBRATION INFORMATION

Location: CAL1
Procedure Number: MFGR
Remarks:

Technician: 5952
Accuracy: MFGR
Received IN Tolerance

Calibration was in accordance with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

STANDARDS USED FOR CERTIFICATION

Asset #	Serial #	Mfg	Model #	Nomenclature	Cal Date	Int.	Cal Due
000168	775024	FLUKE	335A	DC VOLTAGE STANDARD/DIFFERENTIAL VO	11/01/94	6	05/01/95

Certified by : Anthony Pilcman

Calibration Date: 01/10/95
Interval: 12 months
Next Calibration Due: 01/10/96

Certificate#: 15965

SOUTHWEST RESEARCH INSTITUTE

Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION
01/15/96

Issued to: DARRELL DUNN DIV20 ,B57
Manufacturer/Model: ORION/EA920
Nomenclature: PH METER
Serial Number: S001A
Asset Number: 001880
Notes:

ENVIRONMENTAL CONDITIONS

Temperature: 75.0F

Relative Humidity: 32%

CALIBRATION INFORMATION

Procedure Number: MFGR
Remarks:

Accuracy: MFGR
Received IN Tolerance

Calibration was in accordance with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

STANDARDS USED FOR CERTIFICATION

Asset #	Serial #	Mfg	Model #	Nomenclature	Cal Date	Int.	Cal Due
000132	2730017	FLUKE	5100B	CALIBRATOR	12/05/95	6	06/05/96

Certified by : _____

Calibration Date: 01/15/96
Interval: 12 months
Next Calibration Due: 01/15/97

Certificate#: 19794

Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

27 February 1998

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: ORION EA 920
Description: EXPANDABLE IONANALYZER
Serial Number: S001A
Asset Number: 001880

Environmental Conditions

Temperature: 72.00 Deg. F **Humidity:** 32 % RH

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

The uncertainty of the calibration was sufficient to determine that the instrument met the manufacturer's specifications.

Calibration Date: 27 Feb 98 **Calibration Procedure:** CLCP-PH-001

Interval: 12 months

Next Calibration Due: 27 Feb 99 **Received:** In Tolerance

Remarks:

Standards Used

Asset	MFR	Model	Description	Serial No.	Due Cal

Signed:

Title: Staff Tech

LAST PAGE OF REPORT
Total Pages Printed: 1

Certificate # 28772

Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

2 April 1997

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: ORION EA 920
Description: EXPANDABLE IONANALYZER
Serial Number: S001A
Asset Number: 001880

Environmental Conditions

Temperature: 74.0 Deg. F **Humidity:** 48%

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

Calibration Date: 2 Apr 97 **Calibration Procedure:** 5352

Interval: 12 months **Accuracy:** MFGR

Next Calibration Due: 2 Apr 98 **Received:** In Tolerance

Remarks:

Standards Used

Asset	MFR	Model	Description	Serial No.	Due Cal
000115	HEWLETT-PA	3456A	DIGITAL VOLTMETER	2201A08306	9 Jul 97
000168	FLUKE	335A	DC VOLTAGE STANDARD/D	775024	4 Aug 97

Certificate # 24750 **Signed:**

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6220 Culebra Road
San Antonio, TX 78238
Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

2 April 1997

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: ORION EA 920
Description: EXPANDABLE IONANALYZER
Serial Number: TV64A
Asset Number: 005352

Environmental Conditions

Temperature: 74.0 Deg. F **Humidity:** 48%

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

Calibration Date: 2 Apr 97 **Calibration Procedure:** 5352

Interval: 12 months **Accuracy:**

Next Calibration Due: 2 Apr 98 **Received:** In Tolerance

Remarks:

Standards Used

Asset	MFR	Model	Description	Serial No.	Due Cal
000115	HEWLETT-PA	3456A	DIGITAL VOLTMETER	2201A08306	9 Jul 97
000168	FLUKE	335A	DC VOLTAGE STANDARD/D	775024	4 Aug 97

Certificate # 24749 **Signed:**

LAST PAGE OF REPORT
Total Pages Printed: 1

Southwest Research Institue
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory

Accredited

Certificate #
0972-01

Certificate of Calibration

24 March 1999

Issued to:	DARRELL DUNN DIV20 B57
Manufacturer/Model:	ORION EA 920
Description:	EXPANDABLE IONANALYZER
Serial Number:	S001A
Asset Number:	001880

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 73.0 Degrees Fahrenheit Humidity: 40 % RH

Calibration Date: 24 Mar 99 **Calibration Procedure:** CLCP-PH-001 4/96

Condition as Received: IN TOLERANCE

Condition as Released: IN TOLERANCE

Remarks: LIMITED: CAL MV USE ONLY

Approved by:

Jim Patterson, Supervisor or Walt Hill, Metrologist
Certificate # 33577
m:\a2la.rpt Rev date 10 Mar 99

Measurements performed by:

Vince Morales, Technician

Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory

Accredited

Certificate #
0972-01

Certificate of Calibration

7 June 2000

Issued to:	DARRELL DUNN DIV20 B57
Manufacturer/Model:	ORION EA 920
Description:	EXPANDABLE IONANALYZER
Serial Number:	S001A
Asset Number:	001880

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. The results of this calibration relate only to the individual item as described above. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 74.0 Degrees Fahrenheit Humidity: 40 % RH

Calibration Date: 7 Jun 00 **Calibration Procedure:** CL-79, 6/99

Condition as Received: See Remarks

Remarks: FOUND WITHIN TOLERANCE FOR LIMITED CALIBRATION OF MILLIVOLTS ONLY

Approved by:

Jim Patterson, Supervisor, or Walt Hill, Metrologist

Measurements performed by:

Vince Morales, Technician

Certificate # 38599

m:\a2la.rpt Rev date 22 May 00

SOUTHWEST RESEARCH INSTITUTE™

6220 Culebra Road, P.O. Drawer 28510
Institute Quality Systems
Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-3692

Certificate of Calibration

Submitted By:	DIV20	**Work Order:**	444051754
Address:	B57	**Date Issued:**	Jan 13, 2003
Contact:	DARRELL DUNN	**Calibration Date:**	Jan 9, 2003
Manufacturer Model:	ORION EA 920	****Calibration Due:**	Jan 9, 2004
Description:	EXPANDABLE IONANALYZER	**Calibration Location:**	N/A
Serial No:	S001A	**Environment:**	Temp. 72.0°F Hum. 38 %RH
Asset No:	001880	***As Found:**	LIMITED CALIBRATION
Procedure:	CL-79, 6/99	***As Left:**	LIMITED CALIBRATION

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999 and ANSI/NCSL Z540-1-1994 which are equivalent to relevant requirements of the ISO 9000-1994 series of standards. This certificate may not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. The results of this calibration relate only to the individual instrument described above. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government.

Uncertainty evaluation includes the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor of k=2 to approximate a 95% confidence level. The calibration process provides a Test Uncertainty Ratio (TUR) of less than or equal to 25% (4:1) of the test limit unless otherwise stated in remarks or an attachment.

*The client has sole responsibility for determination of in/out of tolerance or compliance/noncompliance. An in/out of tolerance opinion is provided for your convenience based only on the Test Instrument (TI) reading(s) and limits as reported. The reported uncertainty relates only to the results at the time of calibration and does not imply any short or long term stability of the TI.

**Calibration interval is determined by the client and does not assure the instrument will remain within tolerance until this date. Any number of factors may cause the instrument to be out of tolerance before the next calibration date.

Remarks: MILLIVOLTS CAL ONLY

Standards Used

Asset	Manufacturer	Model	Description	Cal Due
000182	FLUKE	5700A/EP	CALIBRATOR	Feb 19, 03

Approved by: Walt Hill
Metrology Group Leader

Measurements by: Tom Hannon
Metrology Technician

Southwest Research Institute
Calibration laboratory
Calibration Sheet.

Work Order:	444051754	Mfr.	Orion	Technician	Thomas Hannon
Asset No.	001880	Model	720A and EA920	Procedure	CL-79 7/99
Serial No.	S001A	Type.	pH Meter	Cal Date.	09-Jan-03
Remarks:					

LIMITED CAL: Millivolts Only

Function/Range	Test Point	TI Reading	Difference	Test Limits+/-	Uncertainty	Found/Left
m Volts	m Volts	m Volts	m Volts	m Volts	m Volts	Results
Input 1	0.0	0.2	0.2	0.5	0.1	Pass
	1000.0	1000.1	0.1	1.0	0.1	Pass
	-1000.0	-1000.5	-0.5	1.0	0.1	Pass

END OF REPORT

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Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-3692

ACCREDITED
Certificate #
0972-01

Certificate of Calibration

Submitted By:	DIV20	**Work Order:**	444056978
Address:	B57	**Date Issued:**	Jan 22, 2004
Contact:	DARRELL DUNN	**Calibration Date:**	Jan 22, 2004
Manufacturer Model:	ORION EA 920	****Calibration Due:**	Jan 22, 2005
Description:	EXPANDABLE IONANALYZER	**Calibration Location:**	Bldg. 64
Serial No:	S001A	**Environment:**	Temp. 72.0°F Hum. 36 %RH
Asset No:	001880	***As Found:**	LIMITED CALIBRATION
Procedure:	CL-79, Jun/99	***As Left:**	LIMITED CALIBRATION

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999 and ANSI/NCSL Z540-1-1994 which are equivalent to relevant requirements of the ISO 9000-1994 series of standards. This certificate may not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. The results of this calibration relate only to the individual instrument described above. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government.

Uncertainty evaluation includes the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor of k=2 to approximate a 95% confidence level. The calibration process provides a Test Uncertainty Ratio (TUR) of less than or equal to 25% (4:1) of the test limit unless otherwise stated in remarks or an attachment.

*The client has sole responsibility for determination of in/out of tolerance or compliance/noncompliance. An in/out of tolerance opinion is provided for your convenience based only on the Test Instrument (TI) reading(s) and limits as reported. The reported uncertainty relates only to the results at the time of calibration and does not imply any short or long term stability of the TI.

**Calibration interval is determined by the client and does not assure the instrument will remain within tolerance until this date. Any number of factors may cause the instrument to be out of tolerance before the next calibration date.

Remarks: Millivolts calibrated only.

Standards Used

Asset	Manufacturer	Model	Description	Cal Due
000182	FLUKE	5700A/EP	CALIBRATOR	Mar 04, 04

Approved by: Walt Hill
Metrology Group Leader

Measurements by: Mark Romero
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Calibration Report

Work Order:	444056978	Mfr.	Orion	Technician	Mark Romero
Asset No.	001880	Model	EA920		
Serial No.	S001A	Type.	pH Meter	Cal Date.	22-Jan-04
Remarks:					
		LIMITED CAL: Millivolts Only			

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
mVolts	mVolts	mVolts	mVolts	mVolts	mVolts	Result
Input 1	0.0	0.2	0.2	0.5	0.12	Pass
	1000.0	1000.0	0.0	1.0	0.12	Pass
	-1000.0	-1000.6	-0.6	1.0	0.12	Pass
mVolts	mVolts	mVolts	mVolts	mVolts	mVolts	
Input 2	0.0	-0.2	-0.2	0.5	0.12	Pass
	1000.0	1000.0	0.0	1.0	0.12	Pass
	-1000.0	-1000.5	-0.5	1.0	0.12	Pass

END OF REPORT

SOUTHWEST RESEARCH INSTITUTE™

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Institute Calibration Laboratory
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ACCREDITED
Certificate #
0972-01

Certificate of Calibration

Submitted By:	DIV20	**Work Order:**	444062745
Address:	B57	**Date Issued:**	Feb 10, 2005
Contact:	DARRELL DUNN	**Calibration Date:**	Feb 10, 2005
Manufacturer Model:	ORION EA 920	****Calibration Due:**	Feb 10, 2006
Description:	EXPANDABLE IONANALYZER	**Calibration Location:**	Bldg. 64
Serial No:	S001A	**Environment:**	Temp. 72.0°F Hum. 44 %RH
Asset No:	001880	***As Found:**	LIMITED CALIBRATION
Procedure:	CL-79, Jun/99	***As Left:**	LIMITED CALIBRATION

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999 and ANSI/NCSL Z540-1-1994 which are equivalent to relevant requirements of the ISO 9000-1994 series of standards. This certificate may not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. The results of this calibration relate only to the individual instrument described above. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government.

Uncertainty evaluation includes the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor of k=2 to approximate a 95% confidence level. See Remarks or attached Calibration Report with the same Work Order number for calibration data.

*The client has sole responsibility for determination of in/out of tolerance or compliance/noncompliance. An in/out of tolerance opinion is provided for your convenience based only on the Test Instrument (TI) reading(s) and limits as reported. The reported uncertainty relates only to the results at the time of calibration and does not imply any short or long term stability of the TI.

**Calibration interval is determined by the client and does not assure the instrument will remain within tolerance until this date. Any number of factors may cause the instrument to be out of tolerance before the next calibration date.

Remarks: Millivolts cal'd only

Standards Used

Asset	Manufacturer	Model	Description	Cal Due
004164	FLUKE	5500A/SC300	CALIBRATOR	Aug 03, 05

Approved by: Walt Hill
Metrology Group Leader

Measurements by: Curtis Laurence
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Calibration Report

Work Order:	444062745	Mfr.	ORION	Technician	WCL
Asset No.	001880	Model	EA 920		
Serial No.	S001A	Type.	ION ANALYZER	Cal Date.	10-Feb-05
Remarks:					
			LIMITED CAL: mVolts Only		

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Ch 1	mVolts	mVolts	mVolts	mVolts	mVolts	Result
	1000.0	1000.2	0.2	1.0	0.12	Pass
	-1000.0	-1000.5	-0.5	1.0	0.12	Pass
Ch 2	mVolts	mVolts	mVolts	mVolts	mVolts	
	1000.0	1000.2	0.2	1.0	0.12	Pass
	-1000.0	-1000.5	-0.5	1.0	0.12	Pass

END OF REPORT