TEST EQUIPMENT USED

Part 15.231, ANSI C63.4, RSS 210

This is a list of all test equipment used for non-radiated testing. Equipment used for radiated emissions testing is given in EXHIBIT 5-3.

Note: Calibration Certificates are on following pages.

Test Equipment list for Honeywell OATS

EQUIPMENT:	MANUFACTURER:	MODEL:	CAL DATE:	CAL DUE DATE:
Spectrum Analyzer	Agilent	E4440A	6/24/2014	07/24/2016
Spectrum Analyzer	Rohde & Schwarz	FSU3	5/19/2015	5/19/2016
Spectrum Analyzer	Rohde & Schwarz	FSU26	5/19/2015	5/19/2016
Antenna ("Biconilog")	ETS (EMCO) Lindgren	3149	12/09/2014	12/09/2015

If you need any additional information from Honeywell, please contact:

Andrew Roussin, Engineer

(Acting for Mark Schmidt) Phone (Direct): 516-577-5935 Email: andrew.roussin@honeywell.com IRS RenTelco[.]

1830 West Airfield Drive DFW Airport, Texas 75261

Calibration Certificate Traceability Statement

Asset Number:	1073183		
MFG/Model Number:	AT/E4440A;AL		
Serial Number:	MY46186351		
Description:	26.5 GHZ SPEC AN		
Customer:	HONEYWELL INC.		
Address:	2 CORPORATE CENTER RD		
	MELVILLE NY 11747		
Customer P.O. No:	682758		
Rental Agreement Numbe	er: 1631975-0		
Certificate Number:	16319750107318314624		

This certificate applies to the instrument identified above and shall not be reproduced, except in full, without written approval of TRS-RenTelco.

This certifies that the above instrument was calibrated to manufacturer's specifications using approved procedures and traceable measurement standards.

This calibration was performed by an approved vendor.

The Quality System of TRS-RenTelco is registered by UL DQS Certificate Number 10000112 to the Quality Management System Standard ISO 9001:2008. TRS-RenTelco's Laboratory is in compliance with MIL-STD-45662A, ANSI/NCSL Z540-1-1994, ISO/IEC 17025:2005 and ISO 10012-2003.

Measurement standards are calibrated at planned intervals. Traceability is to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) or other recognized National Metrology Institute (NMI), natural physical constants, consensus standards, or by ratio type measurements using self calibrating techniques. Supporting documentation relative to traceability is available for review by appointment.

This instrument is initially being sent to the above customer calibrated and fully functional. Before being placed in service, the instrument was properly stored after being calibrated. Calibration interval time is started when the instrument is initially placed in service.

Although the calibration laboratory is in compliance with ANSI/NCSL Z540-1-1994 and MIL-STD-45662A this calibration certificate is issued only as a Traceability Statement and does not carry the requirement of recalibration at the end of rental and customer notification of Out of Tolerance conditions.

TRS-RenTelco's calibration interval for this instrument is 24 months.

Processed By: GARY PEAVEY

Calibration Date:	Jun 24, 2014		
In Service Date:	Jul 23, 2014		
Calibration Due Date:	Jul 23, 2016		

Quality Assurance:

Allen of Jodd

Peel Off Sticker Here ---> TRS-RenTelco 800-621-6354 ID: 1073183 Cal: 06/24/14 AV Due: 07/23/16 In Service Date: 07/23/14

Certificate Print Date: July 20, 2015

Form Date: Jan 22, 2015

Issue Date: 5/19/2015



Certificate of Calibration

General Calibration, Inc. A Trescal Company 2 Mars Court, Boonton, New Jersey 07005 Phone (973) 299-2950 Fax (973) 299-0595

Certificate #: GC48-14957 Work Order #: 48GC249 Customer #: 001464

Performed By:		Location of Calibrat	tion:		
GENERAL CALIBRATION, INC.		HONEYWELL SECURITY (001464)			
2 MARS COURT		2 CORPORATE CEN	NTER DRIVE		
BOONTON, NJ 07005		MELVILLE, NY 117	47		
Equipment Information:		Purchase Order:	660327		
Job No.: 066615		Asset Tag No.:	11493		
Manufacturer: R&S		Model Number:	FSU3		
Description: SPECTRUM A	NALYZER	Serial Number:	100029		
Department:		Inspected By:	JTR		
Temp./RH: 25.0 C / 50.0 %)	Job Title:	METROLOGIST		
Cal. Interval: 12 MONTHS	}	Calibration Result:	PASSED		
Cal Date: 05/19/2015		Cal. Due Date:	05/19/2016		
Owner:		Owner's Email:			
Procedure #GCP: RS FSU3					
Calibration Notes:					
Condition: Found In Tolerance and Lef Standards Used To Calibrate Equip					
Company I.D.	Description		Serial Number	Cal. Due Date	
GENERAL CALIBRATION 1001	ATTENUATOR		1204A28252	07/31/2015	
GENERAL CALIBRATION 113	FREQUENCY COUNTER		2426A01584	08/22/2015	
GENERAL CALIBRATION 1153	POWER METER		3125U20840	09/22/2015	
GENERAL CALIBRATION 403	ATTENUATOR		219-05771	08/18/2015	
GENERAL CALIBRATION 485	POWER SENSOR		US37291734	06/30/2015	
GENERAL CALIBRATION 591	LEVEL GENERATOR		2516A04213	04/14/2016	
GENERAL CALIBRATION 636	SYNTHESIZED SWEEPER, 26	6GHZ	2520A01164	06/25/2015	
GENERAL CALIBRATION 649	POWER SPLITTER		51051	01/31/2016	

This is to certify that General Calibration, Inc. is accredited by A2LA and that its calibration system is in compliance with ISO/IEC17025-2005, ANSI NCSL Z540-1, ANSI NCSL Z540-3, and ISO 9001:2008. The test limits stated in the report correspond to the Manufacturer's calibration and published specifications of the equipment, at the points tested. To the best of Gen-Cal's knowledge, the data obtained and as reported was accurate at the time of calibration. Many factors beyond the control of Gen-Cal may affect the performance of equipment after the calibration (verification) on the equipment. Calibration of standards; reference standards and intermediate standards in this calibration have been checked and calibrated against the above working standard(s) which are traceable to the SI units of measurement through National Institute of Standards and Technology or other National Measurement Institutes under CIPM MRA. Any accredited calibration under our A2LA scope of accreditation is denoted with A2LA accredited symbol on the calibration certificate. If the Accredited certificate includes any unaccredited items calibrated, they are clearly marked as unaccredited calibration.

Best Uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

The results documented in this certificate relate only to the item(s) calibrated or tested.

Approved By Debased D. Millare -

General Calibration, Inc. - Q. A. Manager

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Issue Date: 5/19/2015



Certificate of Calibration

General Calibration, Inc. A Trescal Company 2 Mars Court, Boonton, New Jersey 07005 Phone (973) 299-2950 Fax (973) 299-0595

Certificate #: GC48-14947 Work Order #: 48GC249 Customer #: 001464

Performed By:		Location of Calibrat	tion:	
GENERAL CALIBRATION, INC.		HONEYWELL SECURITY (001464)		
2 MARS COURT		2 CORPORATE CEN	NTER DRIVE	
BOONTON, NJ 07005		MELVILLE, NY 117	/47	
Equipment Information:		Purchase Order:	660327	
Job No.: 066617		Asset Tag No.:	11496	
Manufacturer: R&S		Model Number:	FSU26	
Description: SPECTRUM A	NALYZER	Serial Number:	100303	
Department:		Inspected By:	JTR	
Temp./RH: 25.0 C / 50.0 %		Job Title:	METROLOGIST	
Cal. Interval: 12 MONTHS		Calibration Result:	PASSED	
Cal Date: 05/19/2015		Cal. Due Date:	05/19/2016	
Owner:		Owner's Email:		
Procedure #GCP: RS FSU26				
Calibration Notes:				
Condition: Found In Tolerance and Lef Standards Used To Calibrate Equipt				
Company I.D.	Description		Serial Number	Cal. Due Date
GENERAL CALIBRATION 1001	ATTENUATOR		1204A28252	07/31/2015
GENERAL CALIBRATION 113	FREQUENCY COUNTER		2426A01584	08/22/2015
GENERAL CALIBRATION 1153	POWER METER		3125U20840	09/22/2015
GENERAL CALIBRATION 403	ATTENUATOR		219-05771	08/18/2015
GENERAL CALIBRATION 553	POWER SENSOR		3318A14976	02/02/2016
GENERAL CALIBRATION 636	SYNTHESIZED SWEEPER, 26	GHZ	2520A01164	06/25/2015
GENERAL CALIBRATION 688	LEVEL GENERATOR		1640A01730	08/18/2015
GENERAL CALIBRATION 809	POWER SPLITTER		53143	06/06/2015

This is to certify that General Calibration, Inc. is accredited by A2LA and that its calibration system is in compliance with ISO/IEC17025-2005, ANSI NCSL Z540-1, ANSI NCSL Z540.3, and ISO 9001:2008. The test limits stated in the report correspond to the Manufacturer's calibration and published specifications of the equipment, at the points tested. To the best of Gen-Cal's knowledge, the data obtained and as reported was accurate at the time of calibration. Many factors beyond the control of Gen-Cal may affect the performance of equipment after the calibration (verification) on the equipment. Calibration of standards; reference standards and intermediate standards in this calibration have been checked and calibrated against the above working standard(s) which are traceable to the SI units of measurement through National Institute of Standards and Technology or other National Measurement Institutes under CIPM MRA. Any accredited calibration under our A2LA scope of accreditation is denoted with A2LA accredited symbol on the calibration certificate. If the Accredited certificate includes any unaccredited items calibrated, they are clearly marked as unaccredited calibration.

Best Uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

The results documented in this certificate relate only to the item(s) calibrated or tested.

Approved By Debased D. Millare -

General Calibration, Inc. - Q. A. Manager

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Cert I.D.: 106027

METS - LINDGREN An ESCO Technologies Company

> 1301 Arrow Point Drive Cedar Park, Texas 78613 (512) 531-6400

METS • LINDGREN An ESCO Technologies Company Tractal S000031729 Ltd Cal

By DDG Date 09-Dec-14 Next Cal Due <u>()9 - Dr: -1</u>5 www.ets-lindgren.com

ASSET#11242

Certificate of Calibration Conformance

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The instrument identified below has been individually calibrated in compliance with the following standard(s): SAE, ARP-958 - 2003, Electromagnetic Interference Measurement Antennas; Standard Calibration Method, Society of Automotive Engineers, Aerospace Recommended Practice. Fixed height, three antenna rotation, 1 meter separation. 3 meter separation performed per Annex C. Vertical calibration performed per above listed methodology.

Environment: Laboratory MTE is maintained in a temperature controlled environment with ambient conditions from 18 to 28 C, relative humidity less than 90%. The instrument under test has been calibrated on an open air test site (OATS) with environment temperature conditions ranging from 0 to 40 C which has no known influences on measurement quality.

Manufacturer:	ETS-Lindgren		Operating Range:	80 MHz - 6 GHz
Model Number:	3149.		Instrument Type:	Biconilog (Type 5)
Serial Number/ ID:	00045682		Date Code:	
Tracking Number:	S 000031729		Alternate ID:	
Date Completed:	09-Dec-14		Customer:	HONEYWELL (NY) 2 Corporate
Test Type:	3 meter, Horizontal and \	/ertical		Center Drive, Melville NY 11747
Calibration Uncertainty: k=2, (95% Confidence Level)	01m	26 - 1000 MHz, +/-0.9 dB;	1000 - 2000 MHz, +/-0	8 dB; 2000 - 6000 MHz, +/-1.2 dB
	03m	26 - 1000 MHz, +/-0.9 dB;	1000 - 2000 MHz, +/-0	.8 dB; 2000 - 6000 MHz, +/-1.3 dB
	10m	26 - 1000 MHz, +/-1.0 dB;	; 1000 - 2000 MHz, +/-1	.4 dB; 2000 - 6000 MHz, +/-2.3 dB

Test Remarks: Unit ran down to 26MHz per customer request.

Calibration Traceability: All Measuring and Test Equipment (M/TE) identified below are traceable to the SI units through the National Institute for Standards and Technology (NIST) or other recognized National Metrology Institute. Calibration Laboratory and Quality System controls are compliant with ISO/IEC 17025-2005 and ANSI/NCSL Z540-1-1994.

Standards and Equipment Used: Make / Model / Name / S/N / Recall Date

Agilent

N5232A-216 Pt

PNA-L Network Analyzer MY52221044

Condition of Instrument Upon Receipt:

In Tolerance to Internal Quality Standards

On Release:

In Tolerance to Internal Quality Standards

Calibration Completed By Damein D Griffin, Calibration Technician

03-Jun-15

Attested and Issued on 09-Dec-14 Doug Kramer, Manager, Calibration/EMC/Wireless Lab

This document provides traceability of measurements to recognized national standards using controlled processes at the ETS-Lindgren Calibration Laboratory. Uncertainties listed are derived from the methods described by NIST Tech Note 1297. This certificate and report may not be reproduced, except in full, without the written approval of ETS-Lindgren Calibration Laboratory in accordance with ISO/IEC 17025-2005 and ANSI/NCSL 2540-1-1994. The results in this document relate only to the item(s) listed and should not be considered representative of a population unless otherwise noted. QAF 1127 (03/11)