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

ARenTelco-

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 Number: 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, ANSVNCSL 2540-1-1994, ISO/IEC 17025:2005 and ISO 10012-2003.

Measurement standards are calibrated at planned intervals. Traceability is to the International System of Units (SQ through the National Institute of Standards and Technology (NIST) or other recognized National Metrology Institute (NMI), natural physic(il 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 ANSVNCSL 2540-1-1994 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.

Calibration Date: Jun 24, 2014

In Service Date: Jul 23, 2014

Calibration Due Date: Jul 23, 2016

Quality Assurance:

Processed By: GARY PEAVEY

Peel Off Sticker Here --->

Men of Todal

<u>T</u>RS-RenTel<u>co aoo-621-6354</u> ID: 1073183 Cal: 06/24/14

V Due: 07/23/16 In Service Date: 07/23/14

Certificate Print Date: July 20, 2015 Page 1 of 1

91021-1 Form Date: Jan 22, 2015

Certificate of Calibration

Issue Date: 5/19/2015



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 Calibration: |
|---------------|--------------------------|
|---------------|--------------------------|

GENERAL CALIBRATION, INC.

2 MARS COURT

HONEYWELL SECURITY (001464)

2 CORPORATE CENTER DRIVE

BOONTON, NJ 07005 MELVILLE, NY 11747

| Equipment Info | ormation: | Purchase Order: | 660327 |
|-----------------------|-------------------|---------------------|-------------|
| Job No.: | 066615 | Asset Tag No.: | 11493 |
| Manufacturer: | R&S | Model Number: | FSU3 |
| Description: | SPECTRUM ANALYZER | 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 Left In Tolerance

| Standards Used To Calibrat | e Equipn | nent | | | |
|----------------------------|----------|---------------------------|---|---------------|---------------|
| 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, 26GH | Z | 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 General Calibration, Inc. - Q. A. Manager

Certificate of Calibration

Issue Date: 5/19/2015



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 Bv: Locati |
|----------------------|
|----------------------|

GENERAL CALIBRATION, INC.

2 MARS COURT

HONEYWELL SECURITY (001464)
2 CORPORATE CENTER DRIVE

BOONTON, NJ 07005 MELVILLE, NY 11747

| Equipment Info | ormation: | Purchase Order: | 660327 |
|-----------------------|-------------------|---------------------|-------------|
| Job No.: | 066617 | Asset Tag No.: | 11496 |
| Manufacturer: | R&S | Model Number: | FSU26 |
| Description: | SPECTRUM ANALYZER | 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 Left In Tolerance

| Standards Used To Calibrat | te Equipr | nent | | | |
|----------------------------|-----------|----------------------------|---|---------------|---------------|
| 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, 26GHZ | Z | 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 General Calibration, Inc. - Q. A. Manager



Cert 1.D.: 106027

ETS-LINDGREN™

An ESCO Technologies Company 1301 Arrow Point Drive Cedar Park, Texas 78613 (512) 531-6400

T.-... 5000031729 Ltd C11 L Br DOG Dme (5.0ec..14 NHICII Dul {. 9- f't: -/ 1-

www.-..&Indgtwn.cont

.1)**s.rFT#IJJ.(_/)_**

Certificate of Calibration Conformance

Page 1 of 5

The Instrument Identified below has been Individually calibrated Incompliance 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 O to 40 C which has no known influences on measurement quality.

80 MHz - 6 GHz Manufacturer: ETS-Lindgren Operating Range:

3149. Instrument Type: Model Number: Biconilog (Type 5)

Serial Number/ ID: 00045682 Date Code: S 000031729 Alternate ID: Tracking Number:

Date Completed: 09-Dec-14 HONEYWELL (NY) 2 Corporate Customer: Center Drive, Melville NY 11747

Test Type: 3 meter, Horizontal and Vertical

Calibration Uncertainty: 0.1m26 - 1000 MHz, +/-0.9 dB; 1000 - 2000 MHz, +/-0.8 dB; 2000 - 6000 MHz, +/-1.2 dB

k=2, (95% Confidence Level)

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

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

Calibration Traceability: All Measuring and Test Equipment (MITE) 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 ISOIIEC 17025-2005 and ANSI/NCSL Z540-1-1994.

Standards and Equipment Used:

Make / Model / Name / SIN / Recall Date

Agilent N5232A-216 PNA-L Network Analyzer MY52221044 03-Jun-15 Condition of Instrument

Upon Receipt:

In Tolerance to Internal Quality Standards

On Release:

In Tolerance to Internal Quality Standards

Damein D Griffin, Calibration Technician

Attested and Issued on

Doug Kramer, Manager, Calibration/EMC/Wireless Lab