

Title: 289007879 RFGGen ATE Test Instruction

TI No: 44344

Rev No: 04

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1. PURPOSE

The purpose of this Test Instruction is to detail how to perform the required tests in a safe and consistent manner.

2. SCOPE

The scope of this Test Instruction is to cover all activities relating to the testing of Electrical Assemblies detailed in the Title above.

3. DEFINITIONS AND ABBREVIATIONS

Term	Definition / Abbreviation
UUT	Unit Under Test
DVM	Digital Voltage Meter
RF	Radio Frequency
TSW	Test Software
N/A	Not Applicable

4. ROLES AND RESPONSIBILITIES

Roles	Responsibilities
Operator	Ensure all aspects of this test instruction are adhered to and all equipment required to complete these tasks are within calibration.
Quality	Ensure that any records being generated by this document are retained for 15 years.

5. FORMS

Doc No:	Document Title
N/A	Not Applicable

6. RECORDS

Ref No:	Doc No:	Document Title	Location
QMS1	N/A	Test Results Database	Waters Servers

7. HEALTH & SAFETY

No specific considerations.

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8. FUNCTIONAL TESTING

8.1. Functional Test 1 (FCT1)

8.1.1. Equipment Required

Equipment Number:	Equipment Description
4245001dc1	Waters Automated Tester (WAT)
279003934	Kestrel RFGGen Automated Test Box
N/A	2x 10MHz Oscilloscope leads BNC adaptors
N/A	3x 1.5 Meter BNC-BNC 50 Ohm leads
289007879	289007879 RF Generator Test Program

8.1.2. Equipment setup

Tasks/Instructions

Set up fixture on WAT as below.

Attach 2 10x Oscilloscope probes to side of test box via BNC adaptors. Channels connections are indicated.

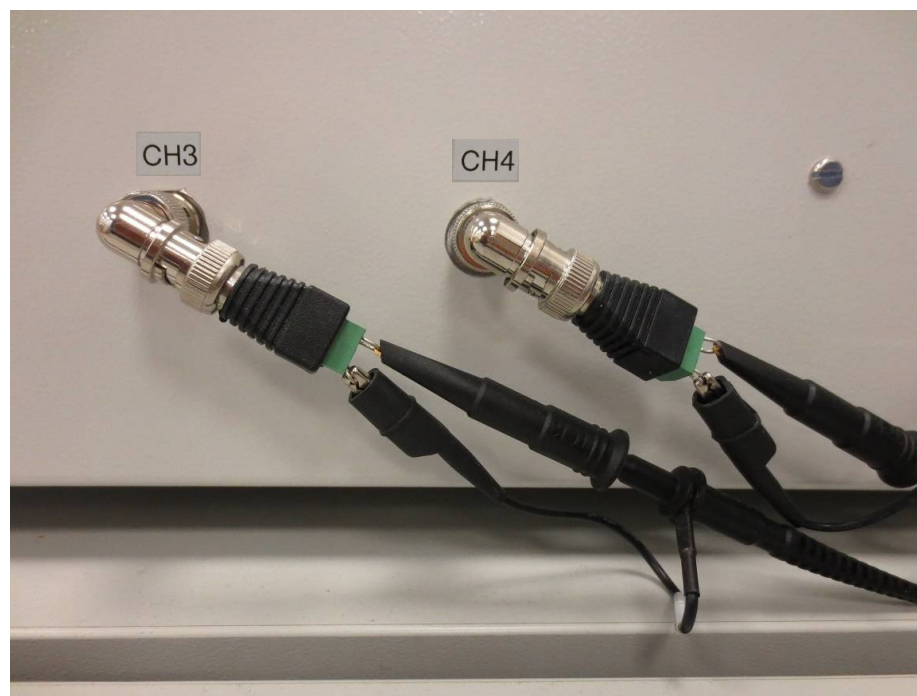
Attach 2 1x BNC 50 Ohm leads between the back of the test box and Oscilloscope. Channel connections are indicated.

Attach Function Generator from WAT to AUX1 at the back of test box using BNC lead.

Attach power lead from WAT to POWER connection at the back of test box.

Attach Analogue port from WAT to test box.

Attach DVM leads from WAT to the back of the test box. See photo shots below.



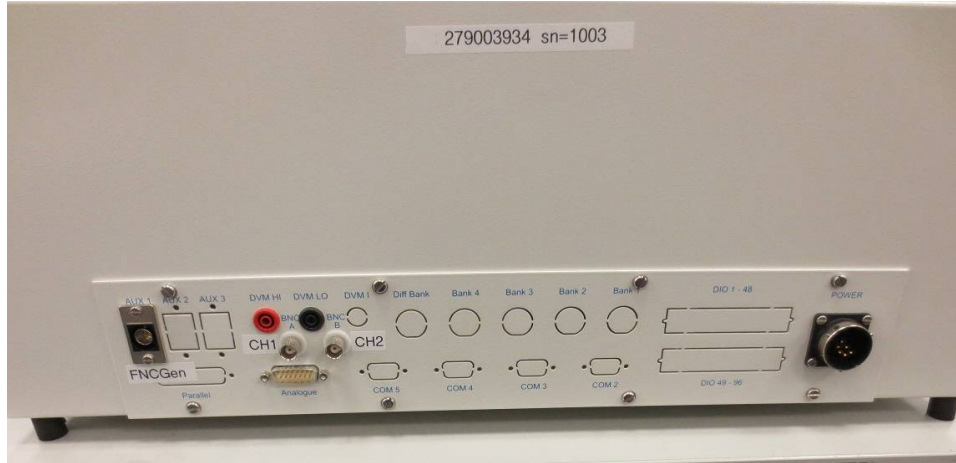
Connection of 10x Oscilloscope probes using adaptors to the side of the test box.

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Connections to back of test box.



Place UUT inside fixture, as shown.

UUT Power LED (front of test box) should be lit when UUT is connected and test program is running.

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8.1.3. Running Test Program

Tasks/Instructions
Invoke TSW 289007879 from ' Start Program Files Waters Test Programs 289007879 Rev_H ' and follow onscreen instructions.

9. SIGNING OFF

If the UUT has failed one or more of the tests detailed in this document, the material is to be assessed and where appropriate reworked and retested.

If there is a label printed automatically from the test solution, please attach this label as per the latest drawings for the Unit Under Test found in SAP.

10. APPENDICES

None

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HISTORY PAGE

VERSION:	01	ORIGINATOR:	C Matheson	DAR:	46243
COMMENTS: "Create new test instruction document for the testing of the Printed Circuit Board Assemblies detailed in the heading above".					
VERSION:	02	ORIGINATOR:	Sadiq Mohsin	DAR:	61673
COMMENTS: Document revised to 02. Section 8.1.1. – Equipment list revised to include new test fixture. Section 8.1.2. – Reference to TB653 added. Section 8.1.10. and Section 8.1.11.- added to Test Instruction.					
VERSION:	03	ORIGINATOR:	Sadiq Mohsin	DAR:	63999
COMMENTS: This document revised to 03. Issue 02 document Section 8.1.1. – Equipment list revised/changed to include new test fixture. Issue 02 document Sections 8.1.2. to 8.1.9. – References to TB653 removed as it will no longer be used. Issue 02 document Section 8.1.10. and Section 8.1.11. - Revised to reflect new test box changes. Section 8. re-numbered in this document.					
VERSION:	04	ORIGINATOR:	Sadiq Mohsin	DAR:	65810
COMMENTS: This document revised to 04. Section 8.1.3. TSW revision changed to revision H because test specification document updated to rev 4.					