

Validation Master Plan Submission Form

Originator	Tyler Modelski	Extension	3549	Date	28-Aug-2018
Equipment No.	TE0084018	Equipment/Process Name	269X Alliance Heater Cooler Test System		
Plant Location	Flextronics, Singapore	Area of Manufacturing	Flextronics Clean Room		

Please describe the function of the Equipment, Method and/or Process.

The 269X Alliance Heater Cooler Test System is custom automated test equipment that performs sub-assembly testing of the heater cooler sub-assembly part number 289000560.

Please describe if the Equipment, Method and/or Process have been custom designed or purchased?

TE0084018 is custom designed test equipment.

When does this Equipment, Method and/or Process need to be used for production?

This tester is a redesign of a test system that reached end of life and could not be replicated. Currently, Flextronics uses the final Alliance instrument to perform testing for spare heater / coolers. This tester will replace that test process and address an outstanding OESR from 2014.

Have any associated documents (Operating Procedure, TSP, ASP, MPR, Cal/PM, etc.) been written or received?

There have been drafts written of the TSP and CAL/PM but they are not yet released and will not be until release of the test system.

Is this Equipment, Method and/or Process considered to have minimum effect on the final product?

Yes	No
☐	☒

Is the critical functionality of the end product of this Equipment, Method and/or Process adequately tested in later production steps?

Yes	No
☐	☒

The heater / cooler is an important sub-assembly for the final instrument as it keeps the sample within the sample compartment at the correct specified temperature. This tester will be used to test spare heater / coolers; therefore, the UUT will not be adequately tested in a later production step.

Comments (optional)

This tester uses custom test software that makes decisions and an external measurement device; therefore, both EDV and TMV is required. An IQ is also required upon installation at Flextronics in Singapore.

This section to be complete by VMP coordinator

The Equipment, Method and/or Process is added to the VMP and qualification deliverables will reside in the following SAP directory:

TE0084018QA / TE0084018QX

Responsibility	Name (Print)	Title	Signature	Date (DD-MMM-YYYY)
Originator	Tyler Modelski	Test Engineer II	<i>[Signature]</i>	28-Aug-2018
VMP coordinator	JAMES J. STORS	Sr. TEST VAL. ENG.	<i>[Signature]</i>	30 AUG 2018