

ACIS Verification Summary Report

Specification:	ACIS Contract End Item Specification
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Requirement Number/Title:	3.2.5.3.1 Steady State Extremes (VRSD 3.2.5.3.1)
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Requirement Statement: Steady state extremes, which affect temperature level, shall include the ground processing environment, the launch environment and the on-orbit environment.

Verification Method:	<i>Analysis and Test</i>
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Procedure Number: 36-01306, Rev. s B and C

Configuration: Rev. B documents ACIS TV Test #1. Rev. C documents ACIS TV Test #2.

Cycle Time: TV Test #1 : 3 weeks . TV Test #2 : 6 days

Verification Discussion/Results:

The ACIS thermal models assume worst-case steady-state temperature extremes, including ground-processing, the launch environment and the on-orbit environment. All ACIS components can withstand +40C during all of these phases, non-operating. During ACIS TV Tests 1 and 2, the ACIS thermal models were correlated to demonstrate that ACIS can operate successfully over the protoflight temperature range (Reference MIT Verification Report 36-01510.086).

Worst-case ISIM boundary temperatures for ACIS were provided by Ball Aerospace and TRW in PIRN 20-0030 for the Thermal ICD (CMØ7A).

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