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Package Test Report for T99X171.00

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Revision Change History		
Revision	Description of Change	Date
1.0	Initial Release	03/09/2023

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Purpose:

1. Provide a formal functional demonstration of the product design reliability.
2. Identify any design discrepancies.
3. Reliability assurance of trial samples which are designed and fabricated in accordance with the customer's product specifications.
4. Conduct robustness testing on early production samples in accordance to customer's product environmental testing specification.

Scope:

This document describes the performance requirements, validation criteria, and the validation tests which focus on T99X171.00 MP stage product.

The DUT H/W version is V125 and S/W revision is BFX_AT100-uesrdebug 9 PI 20200305 release-keys.

The summary of test items:

No.	Item	Test Condition	Q'ty	Period	Pass Criteria	Refer Standard	Test result
1	Package Random Vibration test	1.Duration: 30 minutes / axis 2. Frequency: 1...4...100...200 3.PSD : 0.0001...0.01...0.01...0.0001	1 carton	1 day	No obvious visible damage on boxes after random vibration test.	ISTA-2A	Pass
2	Package drop test	< 10 kg, drop 97 cm, 10 ~ 19 kg, drop 81 cm, one corner, three edge, six faces, total ten drop.	1 carton	1 day	No obvious visible damage on boxes after packaged drop test.	ISTA-2A	Pass

Panel Drawing:



1. Random Vibration Test - Package

Purpose:

To reveal the accumulated effects of stress induced by the random vibration and the resulting mechanical weakness and degradation in specified performance and to use this information, in conjunction with the relevant specification to assess the acceptability of specimens. To demonstrate the mechanical robustness of specimens.

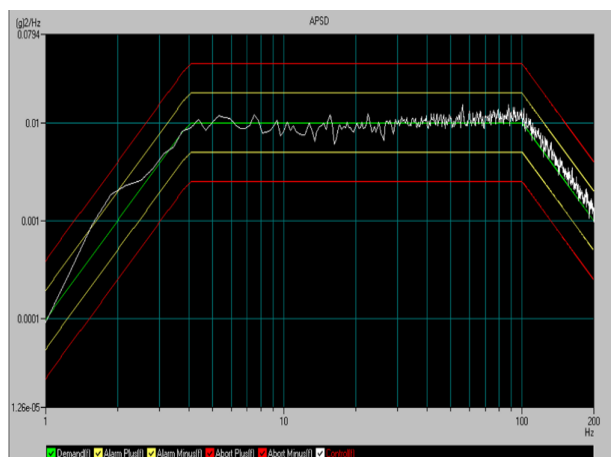
Quantity: 1 carton (S/N: 2149688001202399000004, 2149688001202399000005, 2149688001202399000009, 2149688001202399000008, 2149688001202399000013, 2149688001202399000002, 2149688001202399000007, 2149688001202399000003, 2149688001202399000001, 2149688001202399000014)

Test Objective: ASD: 1 (m2/s3), Test severity: -3dB/oct, Freq. range: 1...4...100...200 Hz

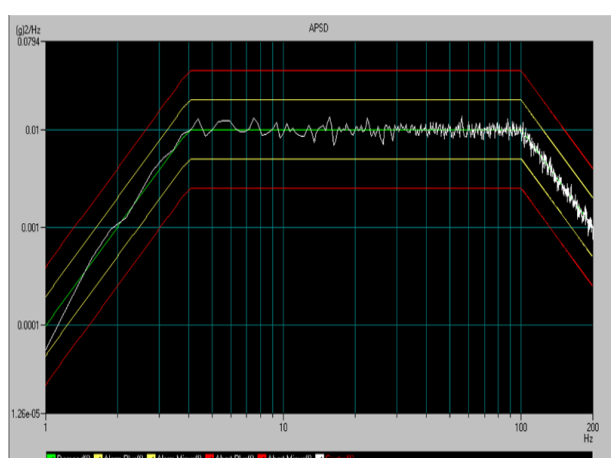
Duration: 30 minutes /axis

PSD : 0.0001...0.01...0.01...0.0001

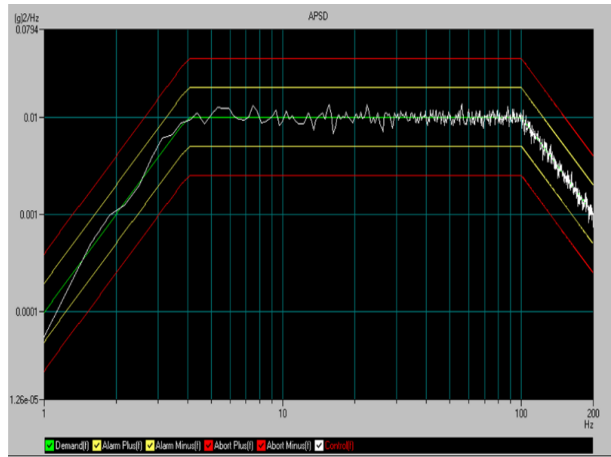
Test Profile:



Z axis



Y axis



X axis

Test Procedure:

1. Fix the product on vibration mechanism.
2. Set the test program as below condition:
 ASD: 1 (m^2/s^3), Test severity: -3dB/oct, Freq. range: 1...4...100...200 Hz
 Duration: 30 minutes /axis
3. Any different between before and after must be noted.

Pass Criteria:

The housing Cover's crack breakdown after random vibration test.

Basis for Profile: ISTA-2A

Test Result: **Pass**



2. Free Fall Drop Packaged Test - Package

Purpose:

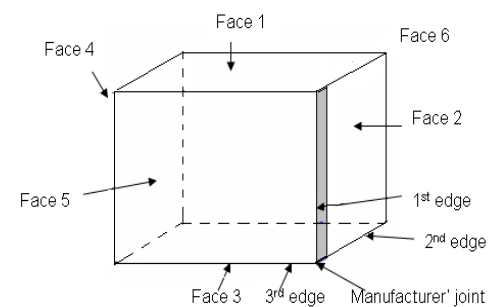
To assess the effects on a specimen of simple standard test intended to be representative of the fall likely to be experience during rough handling, or to demonstrate a minimum degree of robustness, for the purpose of assessing safety requirements.

Quantity: 1 carton (S/N: 2149688001202399000004, 2149688001202399000005, 2149688001202399000009, 2149688001202399000008, 2149688001202399000013, 2149688001202399000002, 2149688001202399000007, 2149688001202399000003, 2149688001202399000001, 2149688001202399000014)

Test Objective: Sample weigh < 10 kg, drop 97 cm; 10 ~ 19 kg, drop 81 cm
 Sample weight: 7.775 kg
 Drop height: 97cm
 Surface: steel surface
 Drop sequence: one corner, three edges, and six faces



Drop	Impact surface
1	Corner 2-3-5
2	Edge 2-5
3	Edge 2-3
4	Edge 3-5
5	Face 4
6	Face 2
7	Face 6
8	Face 5
9	Face 3
10	Face 1



Test Profile:



Corner 2-3-5



Edge 2-5



Edge 2-3



Edge 3-5



Face 4



Face 2



Face 6



Face 5



Face 3



Face 1

Test Procedure:

1. Put the carton on drop mechanism.
2. Drop 76 cm for one corner, three edge, six faces, and total ten drop.
3. Check the mechanical and function after the test.

Pass Criteria:

The housing Cover's crack breakdown after packaged drop test.

Basis for Profile: ISTA-2A

Test Result: **Pass**



