

TEST REPORT



CTK Co., Ltd.

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2023-02326
Page (1) / (13) pages

1. Applicant

◦ Name : Hanwha Vision Co., Ltd
◦ Address : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13488 KOREA
◦ Date of Receipt : 2023-10-12

2. Manufacturer

◦ Name : Hanwha Vision Co., Ltd

3. Use of Report

: Quality control

4. Test sample / Model

: NETWORK CAMERA / XNP-C9310R

5. Date(s) of test

: 2023-10-13 to 2023-10-15

6. Location of Test

: ☒ Permanent Testing Lab ☐ On Site Testing

Address: (144, Dongbu-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea)

7. Test Standard (Method) used

: Specifications presented by the sponsor
(reference NEMA TS 2.2.9)

8. Testing Environment

: Temperature: (20.0 ± 1.0) °C,
Humidity: (50.0 ± 1.0) %R.H.

9. Test Results

: Refer to each test items

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This Test Report cannot be reproduced, except in full.

Affirmation	Tested by	Technical Manager
	Min-Gi Mun (Signature)	SooChan Bae (Signature)

Remark, This report is not related to KOLAS accreditation and relevant regulation.

2023-10-26

CTK Co., Ltd.



1. Shock

1.1. Test equipment

Test equipment	Model	manufacturer	Serial
VIBRATION TESTING SYSTEM	GT1000M	FAMTECH	D1803072
Vibration VIEW	2017.1.2 Unicode 64-bit	Vibration Research Corp.	9526607B
VIBRATION TESTING SYSTEM	GT1000M	FAMTECH	D1803072-1
Vibration VIEW	2017.1.2 Unicode 64-bit	Vibration Research Corp.	955826DB
Acceleration sensor	8703A250M5	KISTLER	5241941

1.2. Test condition

- Acceleration : 10 G
- Test axis : $\pm X$, $\pm Y$, $\pm Z$
- Number of impacts : 1 per direction (total 6)

1.3. Check Item

- No mechanical damage.

1.4. Test Result

- Pass

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Manufacturer's name

Name and address of factory (ies)	1) HANWHA TECHWIN SECURITY VIETNAM CO.,LTD Lot O-2, Que Vo Industrial Zone extended area, Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam 2) D-TECH CO.,LTD. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)
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Model description

Basic Model:	XNP-C9310R
Series model:	XNP-C7310R
Model differences:	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in electronic parts inside the product.

2. APPENDIX

2.1. Product Photographs

< Photo 1 > Product External view



< Photo 2 > Product External view



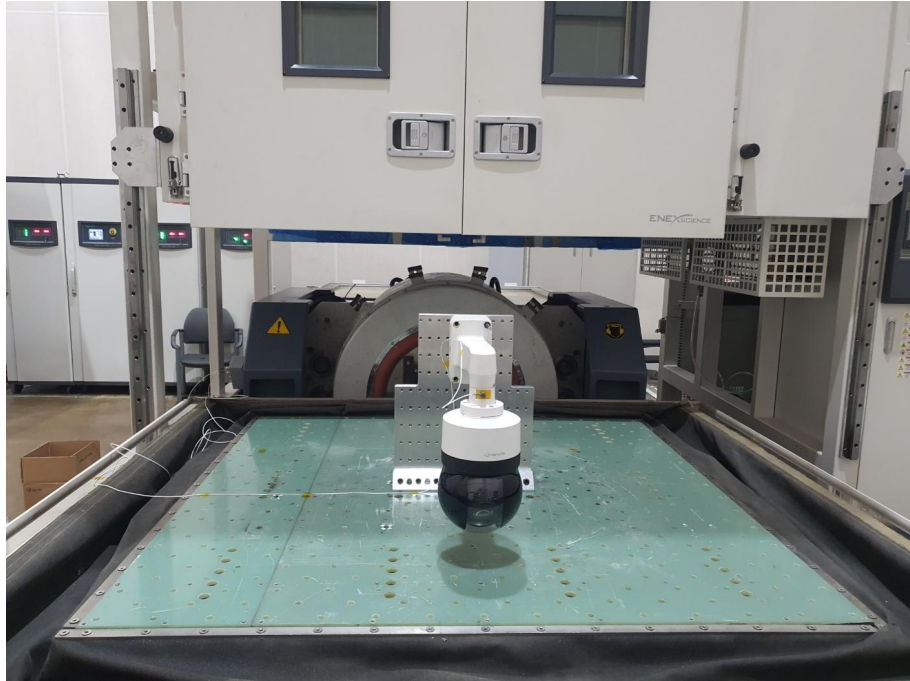
 CTK Co., Ltd. The Prime Leader of Global Regulatory Certification	CTK Co., Ltd. 5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501	REPORT No.: CTK-2023-02326 Page (5) / (13) pages	
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< Photo 3 > Product label

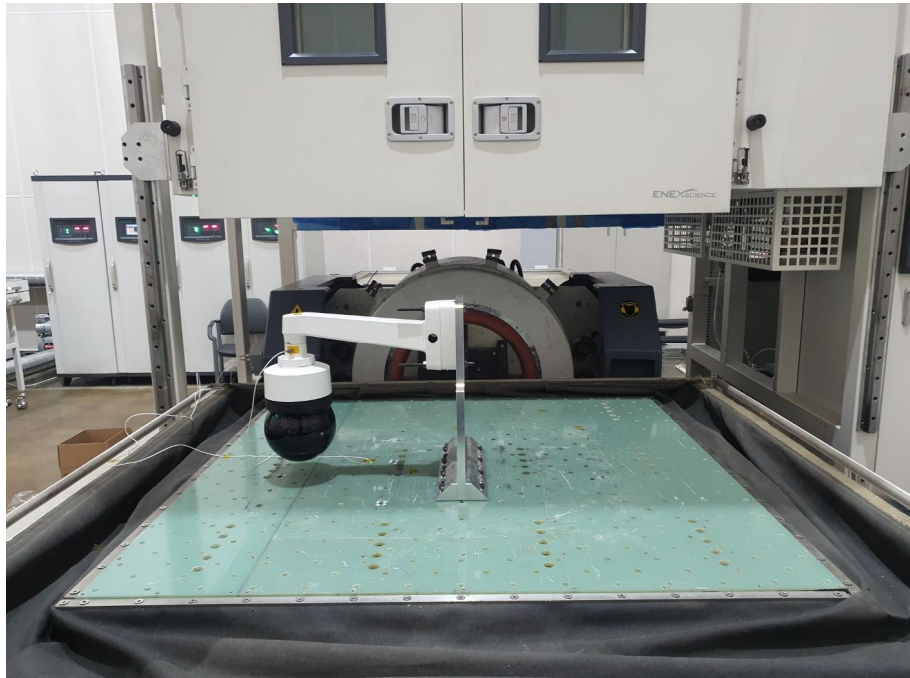


2.2. Test photos

[X axis]

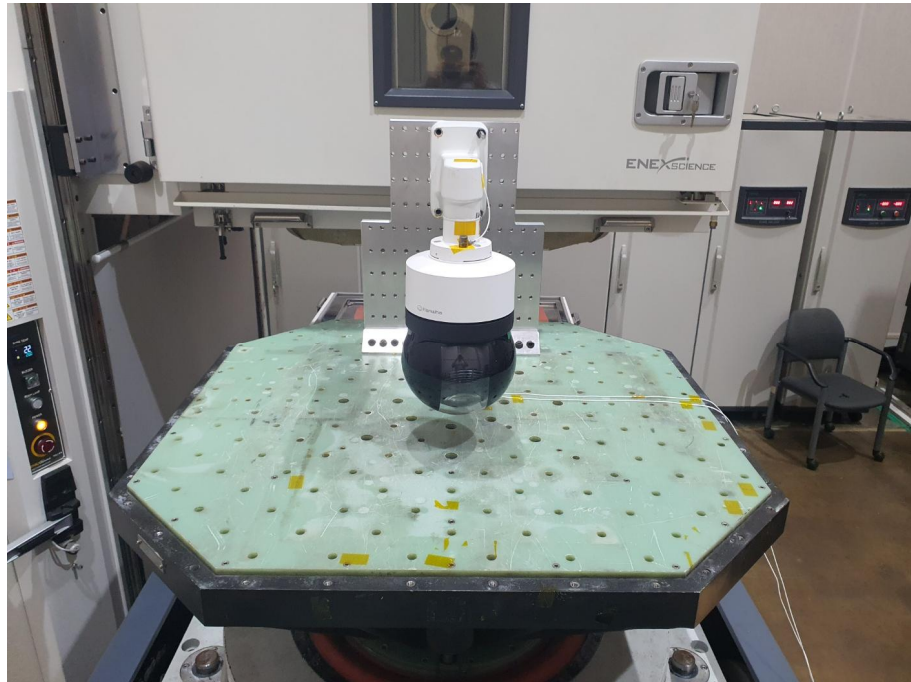


[Y axis]



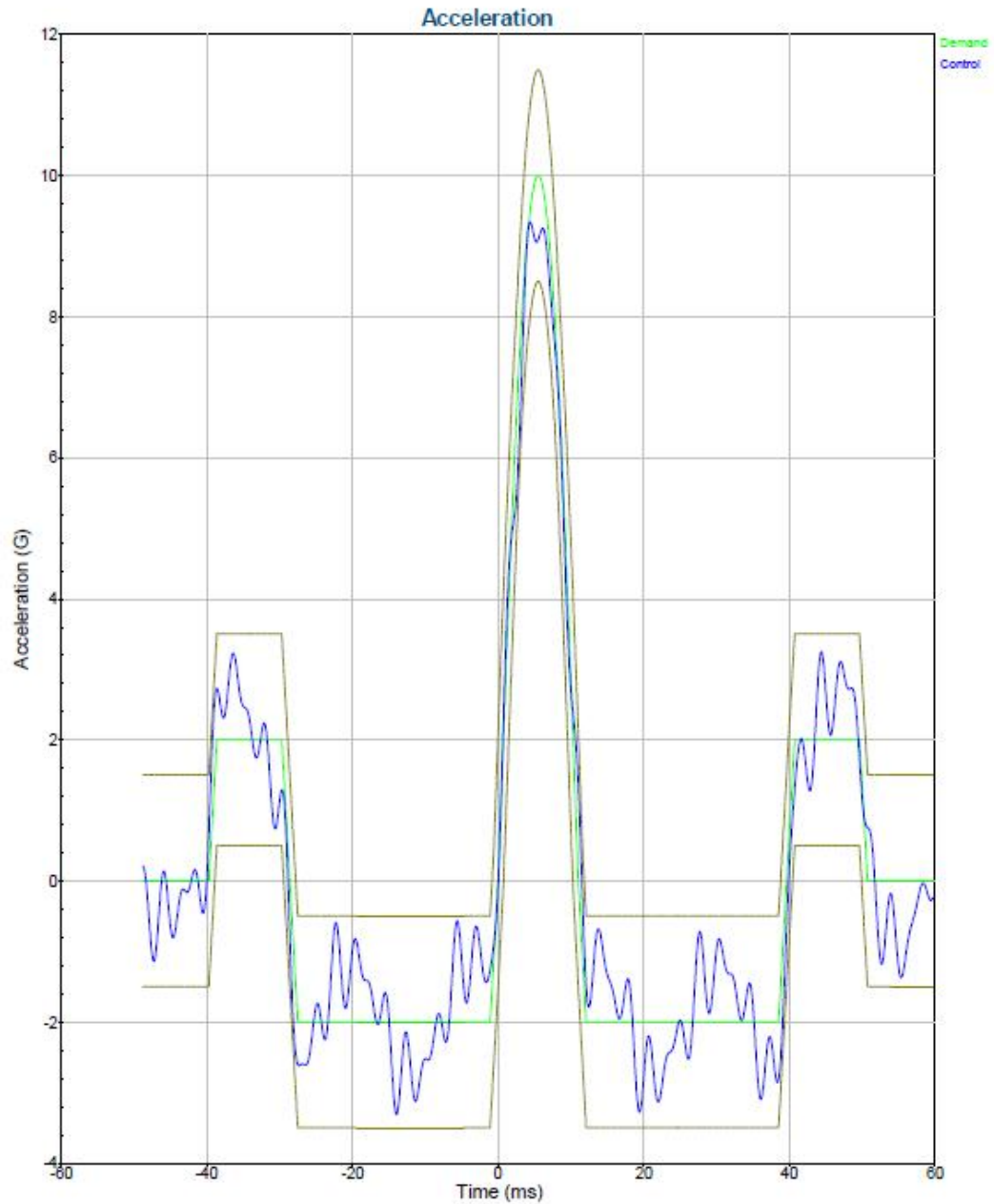
3.

[Z axis]



3.1. Data

[Shock]



10 13, 2023 17:05:41

Level 1) 100 %

Output: 0.817 Volts peak

NEMA TS-2 2.2.9

Demand: 10 G

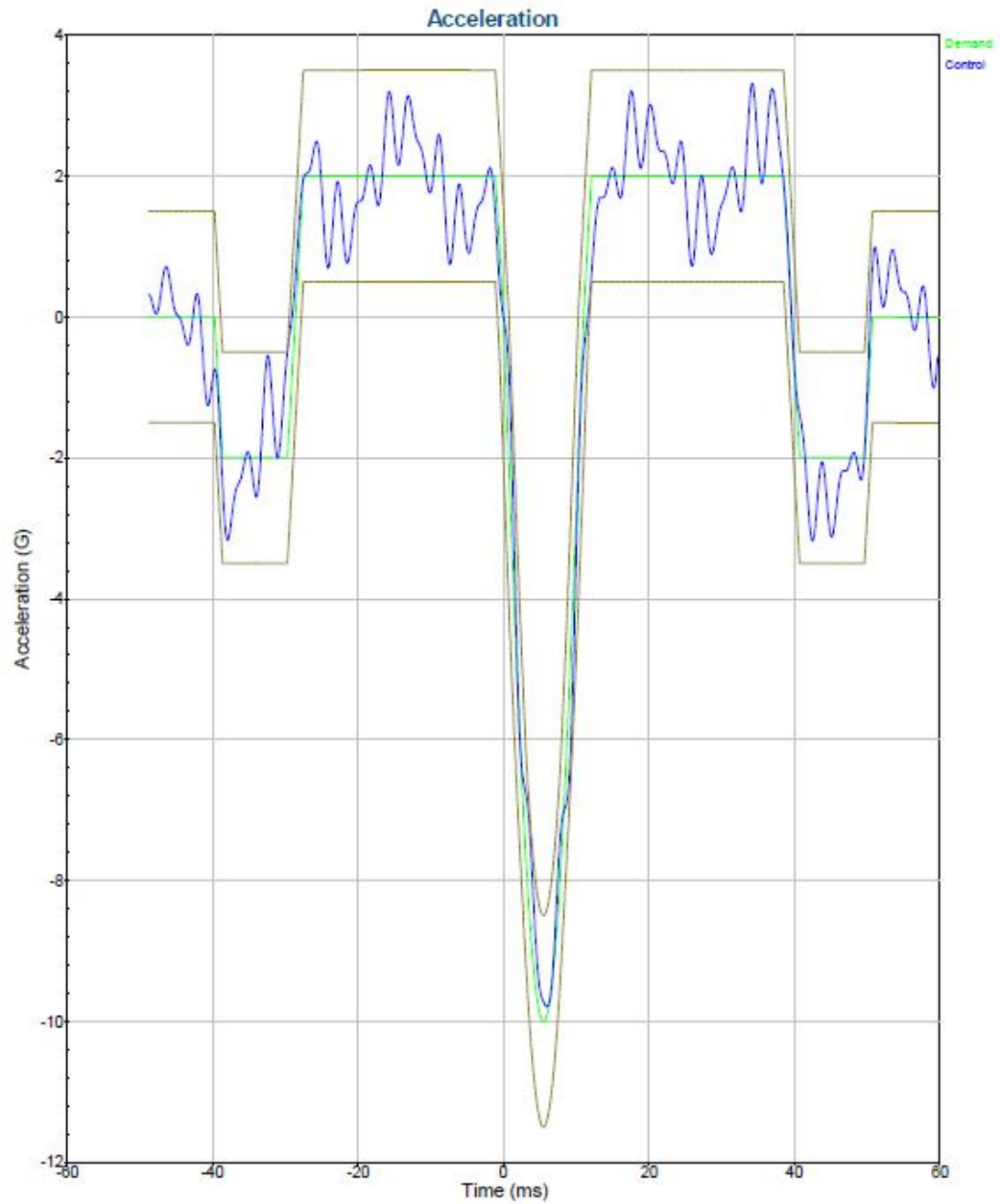
Control: 9.34 G

Pulse: 1 of 1

Running

[X+ axis]

[Shock]



10 13, 2023 17:05:50

Level 2) 100 %

Output: 0.8205 Volts peak

NEMA TS-2 2.2.9

Demand: 10 G

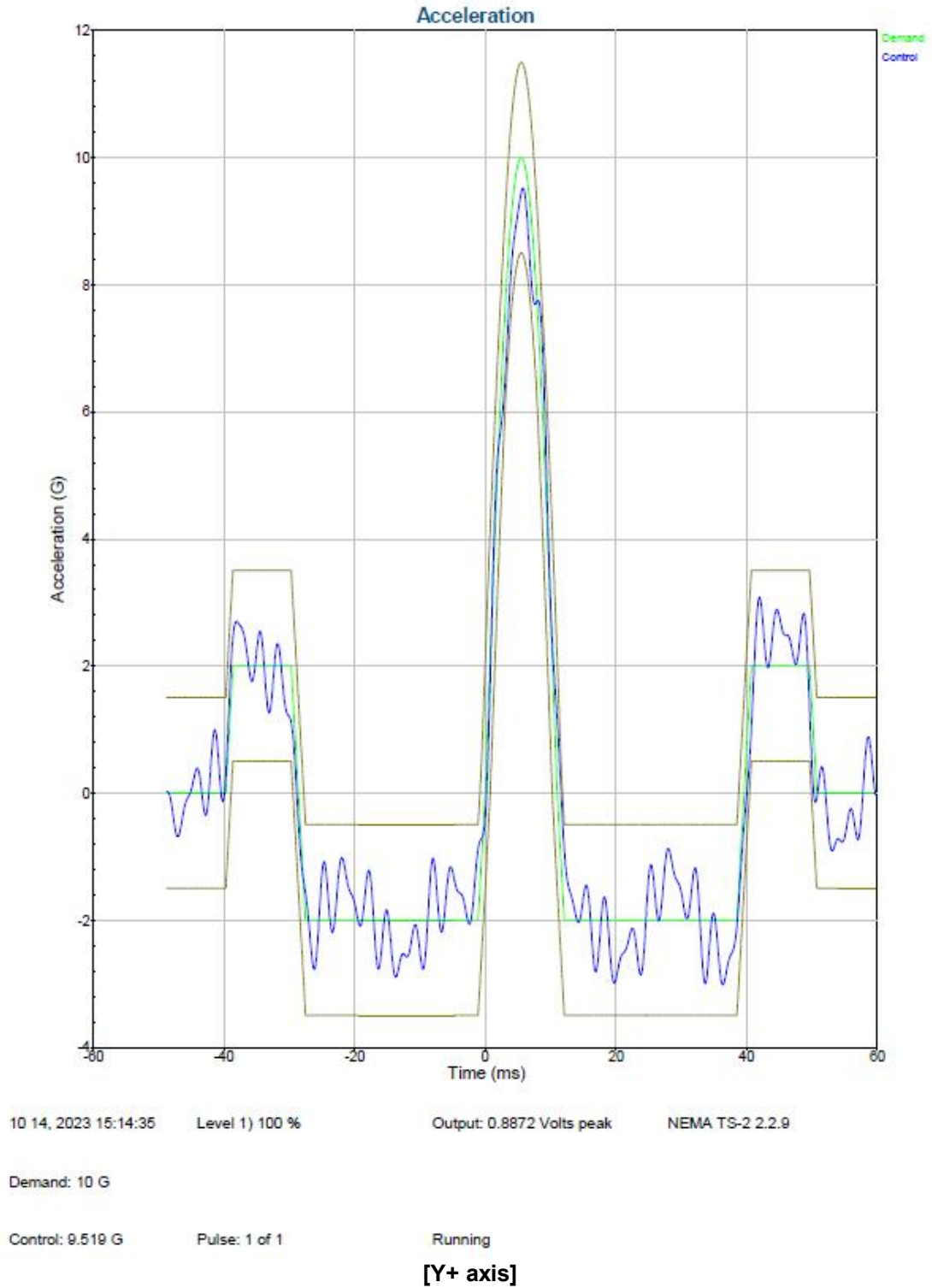
Control: 9.793 G

Pulse: 1 of 1

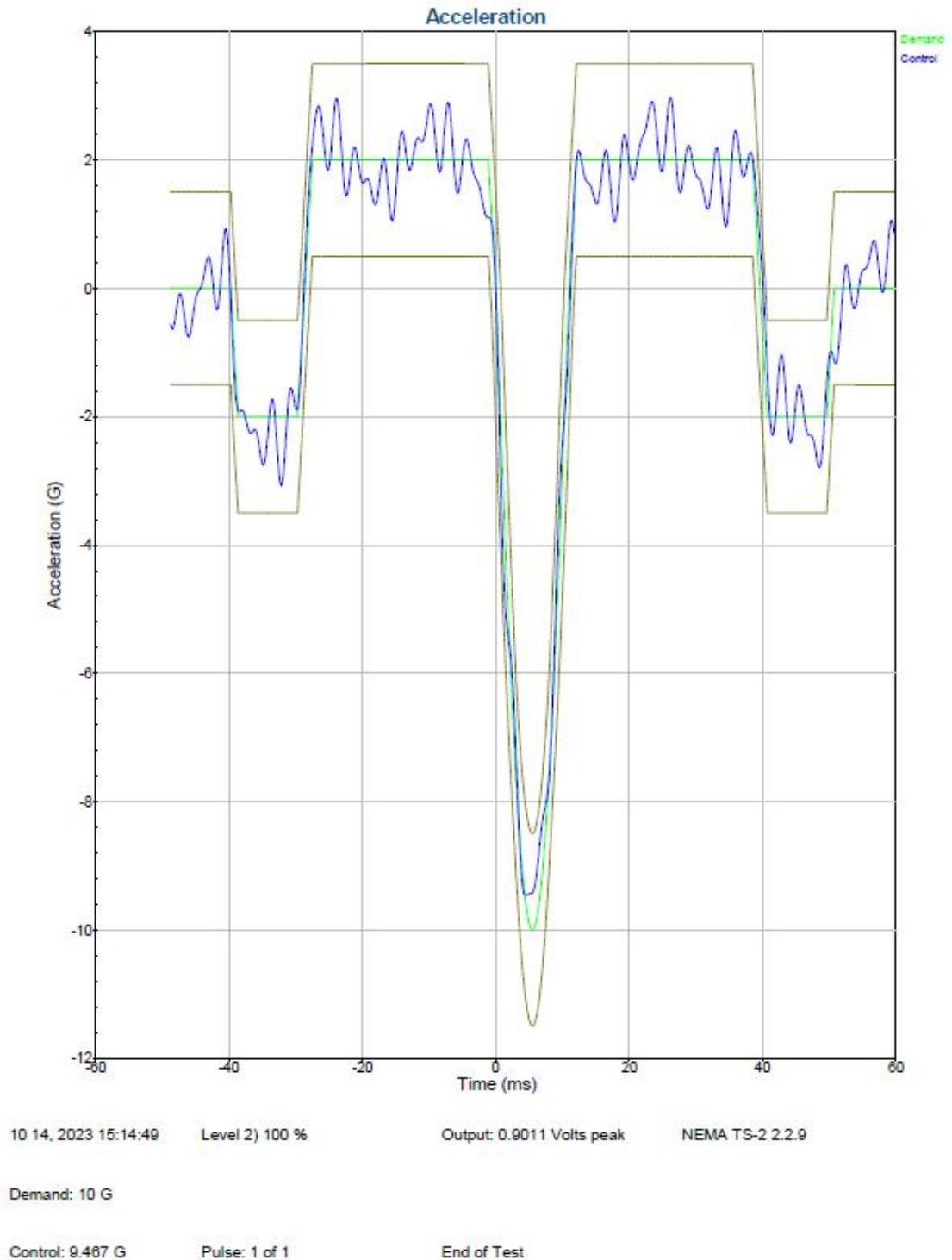
End of Test

[X- axis]

[Shock]

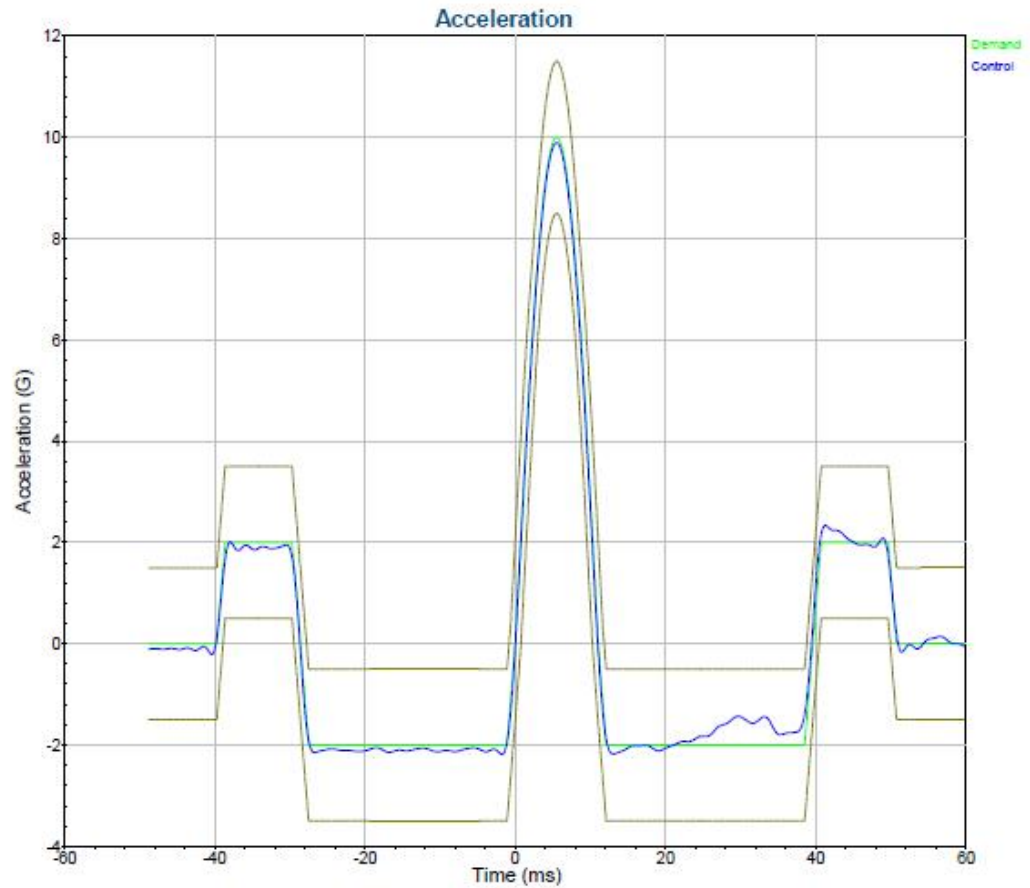


[Shock]



[Y- axis]

[Shock]



10 15, 2023 19:00:06 Level 1) 100 %

Output: 0.4826 Volts peak

NEMA TS-2 2.2.9

Demand: 10 G

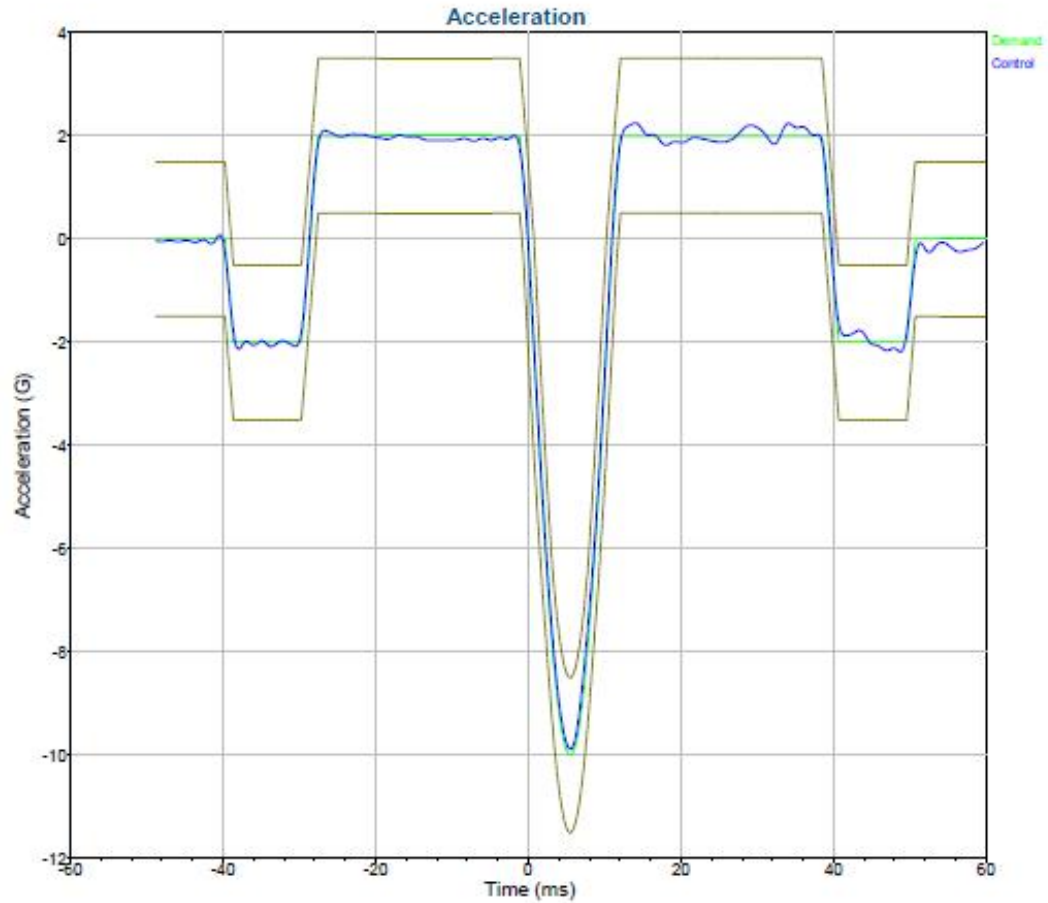
Control: 9.891 G

Pulse: 1 of 1

Running

[Z+ axis]

[Shock]



10 15, 2023 19:00:09 Level 2) 100 %

Output: 0.4899 Volts peak

NEMA TS-2 2.2.9

Demand: 10 G

Control: 9.885 G

Pulse: 1 of 1

End of Test

[Z- axis]

- End -